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HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

24 February 2015

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NMED
Hazardous Waste Bureau

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Dear Mr. Kieling

Holloman Air Force Base is pleased to submit the SS-17 (AOC-Q) Long Term Monitoring Annual Report 2014, Quarters 1-4 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 me at (575) 572-3931 or by e-mail at deanna.rothhaupt@holloman.af.mil.

Sincerely

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SS-17 (AOC-Q) Long Term Monitoring Annual Report 2014, Quarters 1-4

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LONG TERM MONITORING
ANNUAL REPORT - 2014
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ACRONYMS

ACM	Accelerated Corrective Measures
amsl	Above Mean Sea Level
AOC	Area of Concern
AISEB	Aerobic In Situ Enhanced Bioremediation
AS	Air Sparge
bgs	Below Ground Surface
Bhate	Bhate Environmental Associates Inc.
BX	Base Exchange
COC	Contaminants of Concern
COPC	Contaminants of Potential Concern
1,2-DCA	1,2 dichlorethane
1,2-DCP	1,2 dichloropropane
°C	Degrees Celsius
DQCR	Daily Quality Control Reports
EBASCO	Electric Bond and Share Company
ERP	Environmental Restoration Program
ft	Feet or foot
ft^2	Square feet
FS/CMS	Feasibility Study/Corrective Measures Study
GCAL	Gulf Coast Analytical Laboratories Inc.
GPS	Global Positioning System
GTI	Groundwater Technology Government Services Inc.
HAFB	Holloman Air Force Base
HHMSSL	Human Health Medium Specific Screening Level
IDW	Investigative Derived Waste
IRP	Installation Restoration Program
J	Laboratory Qualifier denoting an estimated result
LTM	Long Term Monitoring
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
µg/L	Micrograms Per Liter
mg/L	Milligrams Per Liter
MNA	Monitored Natural Attenuation
NAVD	North American Vertical Datum
NationView	NationView, LLC
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
O/WS	Oil Water Separator
%D	Percent Difference
PCS	Petroleum Contaminated Soil
PID	Photoionization Detector

PRG	Preliminary Remediation Goal
PVC	Polyvinyl Chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RBC	Risk Based Concentration
RCRA	Resource Recovery and Conservation Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RPD	Relative Percent Difference
SACM	Supplemental Accelerated Corrective Measures
SOP	Standard Operating Procedure
SOW	Scope of Work
SVOC	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
WGS	World Geodetic System
WWTP	Wastewater Treatment Plant

1 INTRODUCTION

This Long-term Monitoring (LTM) Annual Report documents quarterly groundwater sampling field events #1 through #4 (August 2013 through May 2014), system operations and the remediation of the inaccessible area of petroleum contaminated soils (PCS) located beneath First Street, using Aerobic In-Situ Enhanced Bioremediation (AISEB), at Environmental Restoration Program (ERP) Site SS-17 (AOC-Q) at Holloman Air Force Base (HAFB), New Mexico. NationView LLC (NationView) conducted the sampling and maintenance and operations events under contract W9128F-09-D-0055, Task Order No. 0006 for the United States Army Corps of Engineers (USACE), Omaha District.

The primary objectives of this annual progress report is to discuss system operation, the most recent sampling events, and related findings as they pertain to the corrective measures and their effects on site restoration. This Long-term Monitoring Annual Report will be utilized to aid in the creation of a site specific risk assessment that will be included in the SS-17 Accelerated Corrective Measures (ACM) Closure Report, to be produced at the completion of eight quarters of sampling events (Fall 2015). The ACM Closure Report shall be prepared in a manner that thoroughly documents the sampling events and presents the results in a format satisfactory to New Mexico Environment Department (NMED). The ACM Closure Report shall incorporate a Risk Based Evaluation to address any residual groundwater impact apparent in the groundwater samples.

1.1 Report Organization

This Annual Report is organized into the following eight sections:

- Section 1 – Introduction
- Section 2 – Site Background
- Section 3 – Applicable Screening Criteria
- Section 4 – Summary of Field Activities
- Section 5 – Summary of Analytical Results
- Section 6 – Comparison of the Annual Groundwater Analytical Results to the SS-17 Baseline Results
- Section 7 – Conclusions
- Section 8 – References

The figures, tables, attachments and appendices referenced throughout this Annual Report are included following the text (after Section 8).

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2 SITE BACKGROUND

2.1 SS-17 Site Description

HAFB is located in south central New Mexico, in the northwest central portion of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Appendix A, Figure 2-1). The former Base Exchange (BX) Gas Station was located on the southwest side of First Street in the main portion of the Base approximately 2,500 feet (ft) from the main gate. The location of Site SS-17 with respect to HAFB is illustrated on Figure 2-2 (Appendix A).

Adjacent HAFB facilities include the Base Medical Facility located approximately 420 ft to the northeast, an Intermediate school located approximately 600 ft to the northwest, and residential base housing is located 200 ft to the southwest of the former gas station. The SS-17 site boundary is depicted in Figure 2-3, historical site features and local building locations are shown on Figure 2-4 (Appendix A). The former BX Gas Station occupied approximately 1.5 acres, began operations in the early 1950s and contained five underground storage tanks (USTs). In January of 1981, discrepancies in the gasoline storage inventories led to the discovery of leaking underground fuel lines (WHA, 1988). Subsequent excavations in the vicinity of the USTs verified that the fuel lines had leaked. The five USTs were removed in February 1992 and were replaced with aboveground storage tanks (ASTs). The BX Gas Station was demolished and relocated 0.5 miles to the north along the east side of First Street in 2001.

2.2 Previous Investigations and Documents

A brief discussion of the SS-17 site history is presented in this subsection. All of the information was obtained from the following documents:

- *Gasoline Extent Investigation, Exchange Texaco Station, Holloman Air Force Base, New Mexico (El Paso Testing Laboratories, 1981).*
- *Installation Restoration Records Search For Holloman Air Force Base, New Mexico (CH2M Hill, 1983).*
- *Installation Restoration Program, Phase II Site 17 Field Evaluation Base Exchange Service Station Report, Holloman AFB, New Mexico (Dames & Moore,1984).*
- *Phase IV, Recovery Project NX Gas Station Leak Data, SS-17 (Hazardous Materials Technical Center [HMTC], June 1987).*
- *Final Installation Restoration Program Remedial Investigation Site 17 BX Station Technical Report Holloman Air Force Base, New Mexico (Walk, Haydel & Associates [WHA], 1988).*
- *Final Installation Restoration Program, Remedial Investigation Report, Site 17 BX Service Station Addendum 1, Holloman Air Force Base, New Mexico (WHA,1990).*

- *Final Corrective Action Plan for Site SS-17, BX Service Station, Holloman Air Force Base, Alamogordo, New Mexico (WHA, 1992).*
- *SVE Remediation System BX Service Station, Holloman Air Force Base, New Mexico (Foster Wheeler Environmental Corporation [FWENC], 1995)*.
- *Draft Final Work Plan Remediation at Site SS-17 BX Service Station, Holloman Air Force Base, New Mexico Volume I – Field Operations Plan (Ebasco Services Inc., 1995)*.
- *2005 Final Long Term Monitoring Report, Holloman Air Force Base, New Mexico (Bhate, 2006)*.
- *Groundwater Characterization Report Site SS-17, Holloman Air Force Base, New Mexico (NationView, 2011a)*.
- *Supplemental Accelerated Corrective Measures Work Plan, SS--17 BX Gas Station Fuel Leak, Holloman Air Force Base, New Mexico (NationView, 2013)*

The LTM program was designed as a 10 year program with monitoring preformed once every two years at multiple sites across HAFB. The LTM sampling events were conducted by FWENC in August 1995, September 1997, September 1999, September 2001, and April 2003. The final LTM sampling event was performed by Bhate in December 2005. Throughout the LTM program, monitoring wells at SS-17 were sampled for VOCs and total dissolved solids (TDS). Due to construction activities and well abandonment, only three of the 22 previously installed monitoring wells at SS-17 remained operational by December 2005. Of the three monitoring wells sampled during the 2005 LTM, only one well (MW-BX-02) had contaminant concentrations (benzene and 1,2-dichlorethane [1,2-DCA]) above applicable action levels.

Due to an insufficient number of monitoring wells (3) which comprised the SS-17 monitoring well network, NationView was contracted to expand the network (up, down, and cross gradient) to evaluate the petroleum related groundwater contamination in the vicinity of the former Base exchange (BX) Gas Station. In May 2012, NationView installed and developed 19 new monitoring wells (SS17-MW01 through SS17-MW03 and SS17-MW05 through SS17-MW20). Figure 2-5 (Appendix A) depicts the current SS-17 monitoring well network (22 wells). In June 2012, the 19 new and 3 existing wells (MW-BX-01, MW-BX- 02 and W-4) were sampled for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), target analyte list (TAL) metals, TDS and monitored natural attenuation (MNA) parameters. The primary chemicals of concern detected in the SS-17 groundwater samples above applicable action levels included several fuel related contaminants (e.g., benzene, toluene, ethylbenzene, xylenes, naphthalene, and TPH). Results of the June 2012 sampling event identified that the distribution of groundwater contamination was centered within the northeastern boundary of the site along First Street.

2.3 Treatment System and Injection Wells

NationView prepared the Supplemental Accelerated Corrective Measures (SACM) Work Plan (USACE Contract Number W9128F-09-D-0055, Task Order 0004), to perform remedial actions at ERP Site SS-17. The SS-17 remedy in place includes excavation of the accessible PCS source areas located in the vicinity of the former BX Gas Station and in-situ treatment (via oxygen injection) in areas where the excavation of PCS is not feasible (i.e., beneath First Street and the utility corridors).

An AISEB treatment system was installed and began operation at the SS-17 site in May 2013. Two (2) 4-inch diameter horizontal injection wells (SS17-IJ01 and SS17-IJ02, also identified as Zone A and Zone B wells, respectively) were installed between February 6 - 12, 2013 as part of the optimization of the inaccessible soils and groundwater treatment at SS-17. These two new wells were constructed of 4” SDR11 HDPE well screen (0.020” slot x 1.6”, 9 slots per foot) and 4” SDR11 HDPE blank riser.

To the greatest extent possible, the injection wells were installed so that the screened sections were at or immediately below the contamination zone beneath First Street. This configuration maximizes the injection wells radius of influence, aids in oxygen distribution to Treatment Zones A and B, and limits the untreated volume of “dead-zones” or areas that do not receive oxygen immediately from the wells. Natural groundwater flow direction and paths assist in oxygen delivery throughout the aquifer. The location of the injection wells SS17-IJ01 and SS17-IJ02 are shown on Figure 2-6. Injection wells SS17-IJ01 and SS17-IJ02 are used in conjunction to treat approximately 100,500 cubic feet (3,722 CY) of PCS and groundwater beneath First Street along the northeastern side of the 2003, 2005, 2006 and 2012 excavation areas.

The treatment system includes a rotary vane blower, programmable logic controller, control panel, manifold header, and electrically actuated solenoid valves. The treatment system is housed in a self-contained, fully enclosed utility trailer with locking capability. The trailer was mobilized to the site and leveled, followed by the installation of hurricane tie-down straps (or equivalent) for relative permanence. Upon completion, a chain link fence equipped with a locking gate was installed around the treatment trailer.

The AISEB system installed is designed to deliver only enough oxygen to enhance microbial degradation of the petroleum-based contaminants. The system is automated, using timer-controlled solenoid valves to alternate between Zone A and Zone B, as each injection point was individually piped and controlled to allow for discrete adjustments to the system.

The system pressurizes both Zone A and Zone B injection wells, continually. Peak performance for Zone A requires 74 cubic feet per minute; Zone B requires 50 cubic feet per minute. In accordance with the system design, one injection well is operated at peak performance, while the second zone is reduced to a managed pressurization rate, to ensure moisture does not gather in the injection wells. As such, performance pressurization is alternated between Zone A and Zone B, on a daily basis.

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3 APPLICABLE SCREENING CRITERIA

The analytical data collected during the four quarterly sampling events has been evaluated against all of the applicable regulatory screening criteria that are specified in Appendix 4-F *Action Levels and Cleanup Levels* of the HAFB Hazardous Waste Permit No: NM6572124422 (NMED, 2004). Soil and groundwater data evaluation consists of a direct comparison to the applicable action level screening criteria and the SACM Work Plan (NationView, 2013).

The maximum detected concentration of each contaminant which is detected above the method detection limit (MDL) has been used for comparison. The following sections present regulatory screening criteria used to evaluate the analytical data for the SS-17 sampling events (QTR 1 – QTR 4) conducted August 2013 through May 2014.

3.1 Soil Screening Criteria

3.1.1 VOCs and SVOCs

The risk based action levels for unrestricted residential land use provided in Table A-1 (NMED Soil Screening Levels, 2012a) of NMED's Risk Assessment Guidance for Investigations and Remediation (NMED, 2012b) will be used as the primary action levels for VOCs and SVOCs. As per the HAFB Permit, Appendix 4-F, Section V.1 (NMED, 2004) if a NMED soil screening level (SSL) has not been established for a hazardous constituent (e.g. 2-methylnapthalene) that constituent will be compared to the United States Environmental Protection Agency (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).

3.1.2 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 Investigations and Remediation (NMED, 2012b). The TPH screening guideline (residential direct exposure), for Diesel #2/crankcase oil (1,000 milligrams per kilogram [mg/kg]) (Table 6-3, NMED, 2012b) will be used as the action level for TPH concentrations (combined gasoline range organics [GRO], diesel range organics [DRO], and oil range organics [ORO]).

3.2 Groundwater Screening Criteria

3.2.1 VOCs and SVOCs

As per Appendix 4-F (NMED, 2004), there are two applicable action levels for VOCs, and SVOCs 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 United States Environmental Protection Agency (USEPA) National Primary Drinking Water Regulations (USEPA, 2009) Maximum Contaminant Levels (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 cleanup.

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 Investigations and Remediation (NMED, 2012b). The NMED TPH screening guideline for Diesel #2/crankcase oil (32 milligrams per liter [mg/L]) will be the action level that will be compared to total TPH concentrations (Gasoline Range Organics [GRO], Diesel Range Organics [DRO], and Oil Range Organics [ORO]) detected in groundwater.

3.2.3 Total Dissolved Solids

There are also two applicable standards for total 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.

3.2.4 Monitored Natural Attenuation Parameters

Several MNA analyses will be compared to applicable groundwater standards. Detections of nitrate, sulfate and manganese will be compared to the NMWQCC groundwater cleanup levels for contaminants (NMAC 20.6.2.3103), the USEPA National Primary and Secondary Drinking Water Regulations MCLs (USEPA, 2009), and the NMED Approved Basewide Background Levels (NMED 2012c). The lower of the standards will be used as action levels for nitrate, sulfate and manganese. Unfiltered (total) manganese will be compared to the USEPA MCLs (USEPA, 2009) and NMED Approved Basewide Background Levels, while filtered (dissolved manganese) will be compared to the NMWQCC groundwater standards (NMAC 20.6.2.3103) and NMED Approved Basewide Background Levels. Unfiltered (total) manganese will also be compared to the NMED Approved Background Levels for Unfiltered (Total) Constituents in Groundwater (Table 2, NMED 2011b) and filtered (dissolved) manganese will also be compared to the NMED Approved Background Levels for Filtered (Dissolved) Constituents in Groundwater (Table 3, NMED 2011b).

4 FIELD ACTIVITIES

The primary objectives of this annual progress report is to discuss system operation, the most recent sampling events, and related findings as they pertain to the corrective measures and their effects on site restoration. This objective is being accomplished by sampling monitoring wells; SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23 on a quarterly basis for two years (August 2013 through June 2015), the last quarter (QTR 8) will include all wells in the SS-17 monitoring well network. Based on the results of prior sampling activities (August 2011 through May 2012) the NMED in correspondence dated October 5, 2012 (NMED, 2012b) requested soil samples collected from two upgradient locations and approved the installation of three additional monitoring wells (SS17-MW21, SS17-MW22, and SS17-MW23) to help delineate the upgradient and downgradient extents of the groundwater contamination found at SS-17.

Therefore, in order to accomplish the objectives of the SS-17 LTM program, in accordance with the Supplemental Accelerated Corrective Measures Work Plan and NMED correspondence, the following field activities were performed during the first four quarters of the sampling program (August 2013 through May 2014) by NationView:

- Three monitoring wells (SS17-MW21, SS17-MW22, and SS17-MW23), were installed during the first quarter (Summer 2013) and added to the LTM program during the first quarter.
- Four rounds of groundwater level measurements were collected from the 6 selected existing monitoring wells within the SS-17 LTM network (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23).
- Four rounds of groundwater sampling were completed from the 6 selected existing monitoring wells within the SS-17 LTM network (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23).
- Groundwater samples were analyzed by a National Environmental Laboratory Accreditation Conference (NELAC) certified offsite laboratory.
- Six soil borings (SB301 through SB306) were advanced to a depth of approximately 18’ below ground surface (bgs) and sampled for VOCs (8260B), SVOCs (8270D), TPH-GRO, TPH-DRO, and TPH-ORO (8015C). These soil borings constituted the first set of annual soil samples to be collected. The second set of annual soil samples to be collected will be advanced within approximately 1’ of the original boring locations, during QTR 8 activities. Refer to Figure 4-1 (Appendix A) for location of annual soil borings.
- Soil samples were analyzed by a NELAC certified offsite laboratory.

4.1 Monitoring Well Installation

Three (3) new permanent monitoring wells (SS17-MW21 to SS17-MW23) were installed in July 2013, in an effort to measure the effectiveness of the remediation system. The

wells were advanced using hollow stem auger (HSA) drilling methods in accordance with the NMEDs Monitoring Well Construction and Abandonment Guidelines (NMED, 2011c).

The wells were constructed of 10 ft of 2-inch diameter schedule 40 polyvinyl chloride (PVC) well screen with a slot opening of 0.010 inch, connected to 2-inch PVC flush joint riser pipe in 5-ft sections. The PVC riser extended to just below ground surface, cut off at a depth that will place top of casing within the shroud of the well lid; Appendix B includes boring logs, well construction diagrams and well development forms.

The annular space surrounding the screen was backfilled with 10/20 silica sand to a minimum of 2 feet over the screened length, capped with a minimum 2 ft of ¼-inch diameter bentonite pellets. The bentonite was hydrated, and allowed to rest for no less than two hours, prior to backfilling the remaining annular space with a Portland bentonite slurry. The wells were installed as flush mount surface completions, including concrete pad and a lockable and tamper proof 8-inch diameter steel well cover.

The three new wells were allowed to rest for no less than 24 hours after completion before being developed to remove fine particulates and improve hydraulic communication with the surrounding saturated material as per NationView SOP No. 10 (NationView, 2009). Wells were developed by pumping, utilizing low flow techniques, until at least five well volumes had been removed and the turbidity, pH, specific conductivity, and temperature have stabilized by +/- 10 percent for at least 3 consecutive readings.

Upon completion of installation and development activities, the highest point of the PVC riser, within the manhole, was marked and utilized as the elevation marker for the well. Depth to groundwater was measured from the elevation marker (at the high point of the PCV riser) for completion of the groundwater potentiometric mapping. The well locations and elevations were collected using a Trimble® hand held global positioning system (GPS) device.

4.2 Groundwater Sampling

Groundwater samples were collected on August 5-6, 2013 (Quarter #1, Summer 2013), November 11-12, 2013 (Quarter #2, Fall 2013), February 5-7, 2014 (Quarter #3, Winter 2014) and May 29-June 2, 2014 (Quarter #4, Spring 2014) from the six monitoring wells (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23). Monitoring well locations are illustrated on Figure 2-4.

Prior to sampling, groundwater levels were collected for each monitoring well; Table 4-1 provides quarterly depth to water. Water level in each well was gauged to the nearest 0.01 ft using an electronic water level indicator. The depth to water information was used to calculate the casing volume of water inside the well.

Monitoring well purging and sampling was completed with low flow techniques utilizing a peristaltic pump, disposable polyethylene tubing placed at mid-screen, and a groundwater multi-parameter meter equipped with a flow-thru cell. Appendix C contains groundwater sampling forms for Quarters 1 - 4.

Field parameters were recorded for every well volume of groundwater removed. 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 units. Upon reaching stable purging parameters, VOC samples were collected using disposable Teflon bailers followed by collecting the remaining samples using a peristaltic pump at low flow rates. Each of the wells was pumped at an average rate of less than 1 liter per minute. Groundwater Sample Collection Forms are included as Appendix C.

4.3 Soil Sampling

A total of six (6) soil borings (SS17-SB301 to SS17-SB306) were advanced to a maximum depth of 18' bgs (approximately 10-12' below where the groundwater surface is encountered) using conventional DPT drilling methods using a Geoprobe Systems® DT22 Dual Tube Soil Sampling System (coring tool) in accordance with the Standard Operating Procedure (Geoprobe Systems® Technical Bulletin MK3140 [Geoprobe Systems®, 2013]). [The subsurface soil data collected from the excavation sidewall sampling (October, 2012) and the subsurface soil investigation (November 2012) serve as the baseline soil sampling event for performance monitoring.]

Each soil boring was logged by a qualified environmental professional, logs and soils visually verified by a geologist. Continuous soil samples were collected from each boring, with materials visually classified and lithologically described in the field according to HAFB SOP No. 7 and the Unified Soil Classification System (USCS) (American Standards for Testing and Materials [ASTM] D 2487-92 and ASTM D 2488-90) (ASTM 2006a and 2006b). Soils were field screened in accordance with HAFB SOP No. 6 using a photoionization detector (PID) to perform soil-headspace screening techniques. Notation of PID readings, visual changes (discoloration) and/or aromatic odors indicative of potential petroleum contamination were noted in the field logs. Based on headspace screening results, one soil sample with the highest PID reading from each boring was selected for laboratory analyses.

A total of 7 soil samples, including 1 field duplicate, were collected and submitted to the laboratory for analysis of VOCs (Method 8260B); SVOCs (Method 8270C); and TPH-GRO, -DRO, and -ORO (Method 8015B). Samples selected for laboratory analysis were labeled, handled, and prepared for shipment in accordance with HAFB SOP No. 1.

4.3.1 Resampling of Soils

Soil samples were shipped, via FedEx, to Accutest Laboratories, in Orlando, Florida. Due to carrier error, the original soil samples were not delivered on time, or within the required EPA temperature parameters. Upon notification, by the laboratory, that the samples were out of temperature and the holding time had been compromised, NationView re-mobilized a field team to initiate soil boring activities and perform the re-collection of soil samples from soil borings SS17-SB301 to SS17-SB306. Original boring locations were identified using GPS technologies; and the new soil borings were advanced within six inches of the original boring locations. All protocols, as identified

above, were followed during the re-collection of soil samples. Soil sample labeling remained the same.

4.4 Laboratory Analysis and Data Validation

4.4.1 Groundwater Analysis Requirements

The analysis of groundwater samples collected during these quarterly sampling events followed the methodologies presented in the NMED approved *Final Supplemental Accelerated Corrective Measures Work Plan SS-17 BX Gas Station Fuel Leak, Holloman Air Force Base, New Mexico* (NationView, 2013). All analytical procedures followed the USEPA SW-846 protocol with groundwater samples from each well being analyzed for the following:

- VOCs by Method 8260B (groundwater)
- SVOCs by Method 8270C (groundwater)
- Total Metals (Iron and Manganese) by Method 6010C (groundwater)
- TPH-GRO, -DRO, -ORO by Method 8015M (groundwater)
- MNA Parameters (Iron, Nitrogen, and Sulfates) by Methods SM18 3500FED, 350.1 300, and 350.2, and 300 respectively (groundwater)
- TDS by Method 2540C (groundwater)

All of the laboratory data generated during these quarterly events were validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including trip blanks and duplicates were collected to document field and laboratory QA/QC. Analytical data packages are provided in Appendix D and the Data Validation Reports are included as Appendix E. Accutest Laboratories (Accutest) in Orlando, Florida performed the analysis of all groundwater 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 E) with the following paragraphs providing a synopsis of each analyte group.

4.4.2 Soil Analysis Requirements

The chemical analysis of soil samples collected during the performance monitoring at SS-17 followed the USEPA SW-846 protocol. The soil from each boring location being analyzed for the follows:

- VOCs by USEPA Method 8260B (Solids)
- SVOCs by USEPA Method 8270C (Solids)
- TPH (GRO, DRO, ORO) by modified USEPA Method 8015B (Solids)

Accutest Laboratories (Accutest) in Orlando, Florida performed the analysis of all groundwater samples collected.

4.5 Surveying and Groundwater Elevations

Monitoring wells used for the potentiometric surface map were surveyed by a qualified surveyor using a Trimble® GPS in accordance with methods described in the *Basewide Quality Assurance Project Plan* (QAPP) (Bhate, 2003). The horizontal locations (northing and easting coordinates) are relative to the World Geodetic System (WGS) 1984 Universal Transverse Mercator (UTM) Coordinate System, Zone 13 North (meters) and surveyed to an accuracy of +/- 0.33 meters. Vertical elevations were referenced to the North American Vertical Datum (NAVD) 1988 and surveyed to an accuracy of +/-0.001 ft. The top of casing for the monitoring wells (vertical control) was used to determine the depth and elevation of the groundwater. The northing and easting and top of casing survey data for the SS-17 Quarter 1 sampling event are included in Appendix F, Table 4-1A.

To determine the groundwater flow direction at Site SS-17, groundwater elevations were measured at 6 monitoring wells (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23) on August 5, 2013, November 11, 2013, February 5, 2014, and May 29, 2014. Static water elevations measured from the top of casings ranged from 4063.838 ft above mean sea level (amsl) at monitoring well SS17-MW22 to 4066.041 ft amsl at SS17-MW21 during Quarter 1, from 4064.798 ft amsl at monitoring well SS17-MW22 to 4066.571 ft amsl at SS17-MW21 during Quarter 2, from 4064.378 ft amsl at monitoring well SS17-MW22 to 4066.293 ft amsl at SS17-MW05, during Quarter 3, and from 4063.971 ft amsl at monitoring well SS17-MW21 to 4066.852 ft amsl at SS17-MW23 during Quarter 4. Appendix F, Table 4-1(A-D) presents the groundwater elevation data collected during these sampling events. Potentiometric surface maps of SS-17 were developed using the data collected on August 5, 2013, November 14, 2013, February 5, 2014, and May 29, 2014 (Figures 4-2 [A-D]). The groundwater flow direction at SS-17 is primarily to the south-southwest towards the single-family housing.

4.6 Equipment Decontamination

All reusable groundwater sampling equipment (water level meter and water quality meter) were decontaminated in accordance with HAFB SOP-2 provided in the Basewide QAPP (Bhate, 2003).

4.7 Investigative Derived Waste Handling

Investigative derived waste (IDW) consisting of disposable items such as nitrile gloves and polyethylene tubing, were disposed of in Holloman Air Force Base waste bins, in accordance with HAFB SOP-9 of the Basewide QAPP (Bhate, 2003).

Decontamination and purge waters from groundwater sampling were locally contained in 55-gallon steel drums and conveyed to an 18,000-gallon storage (weir) tank located at SS17 site. The 18,000-gallon storage tank is maintained by NationView, pending

laboratory analysis, until disposal through the HAFB Wastewater Treatment Plant (WWTP) is permitted.

Spoils associated with both the monitoring well installation and the soil boring activities (annual soil sample collection) were containerized and shipped to the FT-31 landfarm. Soils were spread onsite and aerated.

4.8 Documentation

All field documentation, sample designation and labeling, and chain of custody procedures were conducted in accordance with the procedures specified in the NMED approved *Supplemental Accelerated Corrective Measure Work Plan SS-17 BX Gas Station Fuel Leak, Holloman Air Force Base, New Mexico* (NationView, 2011b).

5 ANALYTICAL RESULTS

During the Quarter 1- 4 LTM events, groundwater samples were collected from SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23. Soil samples were collected from 6 locations along First Street. Groundwater and soil samples were submitted to Accutest Laboratories, Inc. (Accutest) in Orlando, Florida.

5.1 Groundwater Analytical Results

Six (6) groundwater samples (including one duplicate) were collected from the 6 monitoring wells during the four annual LTM events (Quarters 1-4). Groundwater samples were analyzed for VOCs, SVOCs, TPH-GRO, -DRO, -ORO, MNA parameters, and TDS. Analytical results for these groundwater samples are summarized in Table 5-1(A-D). Figure 5-1(A-D) presents NMWQCC and USEPA MCL groundwater exceedances from these sampling events.

5.1.1 Volatile Organic Compounds

Eleven (11) VOCs (benzene, n-butylbenzene, sec-butylbenzene, ethylbenzene, isopropylbenzene, naphthalene, n-Propylbenzene, phenol, toluene, m,p-xylene and o-xylene) were detected above the MDL in groundwater samples collected during the quarterly sampling events (QTR 1 – 4). Benzene, ethylbenzene, toluene, m,p-xylene, and o-xylene were the VOCs detected above the USEPA MCLs and NMWQCC standards. O-xylene was detected with concentrations that exceed the NMWQCC (620 µg/L) in monitoring well SS17-MW21 during all four quarters of sampling. Figures 5-2 (A-D), 5-3 (A-D), 5-4 (A-D) and 5-5 (A-D) illustrate the isocontours of benzene, ethylbenzene, m,p-xylene and naphthalene present during each quarter of groundwater sampling at the SS-17 Site. Contours are presented to illustrate potential plume locations. Figures 5-2E, 5-3E, 5-4E and 5-5E illustrate the concentration trends of benzene, ethylbenzene, m,p-xylene and naphthalene during the four quarters of sampling at the SS-17 Site.

Four additional VOCs (n-butylbenzene, sec-butylbenzene, isopropylbenzene, and n-propylbenzene) were detected at concentrations above the method detection limits. It should be noted that the NMWQCC and USEPA have not established standards for isopropylbenzene, n-butylbenzene, sec-butylbenzene, and n-propylbenzene.

5.1.2 Semi-Volatile Organic Compounds

Fourteen (14) SVOCs (Acenaphthene, Dibenzofuran, Fluorene, Benzoic Acid, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, 2,6-Dinitrotoluene, bis(2-Ethylhexyl)phthalate, 1-Methylnaphthalene, 2-Methylnaphthalene, Phenol, Phenanthrene and Naphthalene) were detected above the MDL in groundwater samples collected during the quarterly sampling events (QTR 1 – 4).

It should be noted that no SVOCs were detected above established USEPA MCLs (NMWQCC has not established standards for any of the SVOC constituents identified above the MDLs).

5.1.3 Metals

Metals were analyzed via method 6010B for dissolved and total (iron and manganese only) matrices. Dissolved (filtered) and total (unfiltered) metals were detected above the MDL in the 6 samples collected (including one duplicate) from monitoring wells SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23. Iron and manganese were detected above their respective USEPA MCLs and NMWQCC groundwater standards and/or NMED Approved Basewide Background levels (Table 5-1, A-D).

The following subsections provide a summary of results for the two dissolved metals which were detected above their applicable actions levels and NMED Approved Basewide Background levels.

- **Quarter 1 (August 2013)** Iron was detected in the groundwater samples collected from four monitoring wells (SS17-MW05, SS17-MW21, SS17-MW22, and SS17-MW23) above the USEPA Secondary MCL and NMED Approved Basewide Background Level (0.300 mg/L) at concentrations of 1.260 mg/L (SS17-MW05), 0.882 mg/L (SS17-MW21), 1.740 mg/L (SS17-MW22), and 15.600 mg/L (SS17-MW23). Iron concentrations in monitoring wells SS17-MW05, SS17-MW22, and SS17-MW23 also exceed the NMWQCC standard of 1.000 mg/L. Monitoring wells SS17-MW21 and SS17-MW23 also had VOC detections and are within the area of groundwater contamination (Figure 5-1A).

  Manganese was detected in groundwater samples collected from the six monitoring wells, above the USEPA MCL and in exceedance of the NMWQCC standard (0.200 mg/L). Concentrations ranged from 0.204 mg/L (SS17-MW08) to 5.220 mg/L (SS17-MW22). The presence of manganese above the USEPA MCL was detected in all monitoring wells associated with the Quarter 1 sampling and most likely represents the natural variability of groundwater geochemistry at SS-17, due to the presence of manganese both inside and outside of the contaminated groundwater plume.

- **Quarter 2 (November 2013)** Iron was detected in the groundwater samples collected from five monitoring wells (SS17-MW05, SS17-MW07, SS17-MW21, SS17-MW22, and SS17-MW23) above the USEPA Secondary MCL and NMED Approved Basewide Background Level (0.300 mg/L) at concentrations of 1.680 mg/L (SS17-MW05), 0.459 mg/L (SS17-MW07), 1.440 mg/L (SS17-MW21), 3.510 mg/L (SS17-MW22), and 0.846 mg/L (SS17-MW23). The iron concentrations in monitoring wells SS17-MW05, SS17-MW21, SS17-MW22, and SS17-MW23 also exceed the NMWQCC standard of 1.000 mg/L. Monitoring wells SS17-MW21 and SS17-MW23 also had VOC detections and are within the area of the groundwater contamination plume (Figure 5-1B).

  Manganese was detected in groundwater samples collected from the six monitoring wells, above the USEPA MCL and in exceedance of the NMWQCC standard (0.200 mg/L). Concentrations ranged from 0.203 mg/L (SS17-MW08) to 5.240 mg/L (SS17-MW22). The presence of manganese above the USEPA MCL

was detected in all monitoring wells associated with the Quarter 2 event. Results represent the natural variability of groundwater geochemistry at SS-17, due to the presence of manganese both inside and outside of the contaminated groundwater plume.

- **Quarter 3 (February 2014)** Iron was detected in the groundwater samples collected from four monitoring wells (SS17-MW05, SS17-MW21, SS17-MW22, and SS17-MW23) above the USEPA Secondary MCL and NMED Approved Levels (0.300 mg/L) at concentrations of 0.972 mg/L (SS17-MW05), 0.386 mg/L (SS17-MW21), 17.900 mg/L (SS17-MW22), and 29.000 mg/L (SS17-MW23). The iron concentrations in monitoring wells SS17-MW05, SS17-MW22, and SS17-MW23 also exceed the NMWQCC standard of 1.000 mg/L. Monitoring wells SS17-MW21 and SS17-MW23 also had VOC detections and are within the area of groundwater contamination (Figure 5-1C).

  Manganese was detected in groundwater samples collected from the six monitoring wells, above the USEPA MCL and in exceedance of the NMWQCC standard (0.200 mg/L). Concentrations ranged from 0.102 mg/L (SS17-MW08) to 17.300 mg/L (SS17-MW22), with SS17-MW08 reporting a concentration below the NMWQCC standard. The presence of manganese above the USEPA MCL was detected in five of the monitoring wells associated with the Quarter 3 sampling event. Results represent the natural variability of groundwater geochemistry at SS-17, due to the presence of manganese both inside and outside of the contaminated groundwater plume.

- **Quarter 4 (May 2014)** Iron was detected in the groundwater samples collected from two monitoring wells (SS17-MW22 and SS17-MW23) above the USEPA Secondary MCL and NMED Approved Basewide Background Level (0.300 mg/L) at concentrations of 5.060 mg/L (SS17-MW22) and 0.555 mg/L (SS17-MW23). The iron concentrations in monitoring well SS17-MW22 also exceed the NMWQCC standard of 1.000 mg/L. Monitoring wells SS17-MW21 and SS17-MW23 also had VOC detections and are within the area of the groundwater contamination plume (Figure 5-1D).

  Manganese was detected in the groundwater samples collected from five monitoring wells (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW22 and SS17-MW23), above the USEPA MCL and in exceedance of the NMWQCC standard of 0.200 mg/L. Concentrations ranged from 0.156 mg/L (SS17-MW08) to 5.090 mg/L (SS17-MW22), with SS17-MW08 reporting a concentration below the NMWQCC standard. The presence of manganese above the USEPA MCL represents the natural variability of groundwater geochemistry at SS-17, due to the presence of manganese both inside and outside of the contaminated groundwater plume.

5.1.4 Total Petroleum Hydrocarbons

Total Petroleum Hydrocarbons (TPH) is listed in three categories. Categories are Diesel Range Organics (DRO), Gasoline Range Organics (GRO) and Oil Range Organics

(ORO). 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 Investigations and Remediation (NMED, 2012b). The NMED TPH screening guideline for Diesel #2/crankcase oil (32 mg/L) will be the action level that will be compared to total TPH concentrations (GRO, DRO, and ORO) detected in groundwater.

- **Quarter 1 (August 2013)** Based upon the combined TPH concentration totals identified as the NMED TPH screening levels, TPH concentrations were below the combined 32 mg/L for five of the monitoring wells sampled during Quarter 1. Total TPH concentrations for SS17-MW21 were above the NMED TPH screening levels and recorded as 299.32 mg/L.
- **Quarter 2 (November 2013)** TPH concentrations were below the combined 32 mg/L for five of the monitoring wells sampled during Quarter 2. Total TPH concentrations for SS17-MW21 were above the NMED TPH screening levels and recorded as 266.4 mg/L.
- **Quarter 3 (February 2014)** TPH concentrations were below the combined 32 mg/L for five of the monitoring wells sampled during Quarter 3. Total TPH concentrations for SS17-MW21 were above the NMED TPH screening levels and recorded as 273.38 mg/L.
- **Quarter 4 (May 2014)** TPH concentrations were below the combined 32 mg/L for five of the monitoring wells sampled during Quarter 4. Total TPH concentrations were above the NMED TPH screening levels for SS17-MW21, at 196.27 mg/L. Although the 4th quarter values were reduced, Total TPH continues to be above the above the NMED screening levels for groundwater.

5.1.5 Nitrate

- **Quarter 1 (August 2013)** Nitrate was detected in SS17-MW07 at a concentration of 1.2 milligrams per liter (mg/L). Nitrate concentrations did not exceed the USEPA MCL (10 mg/L) in any of the wells sampled during the Quarter I event.
- **Quarter 2 (November 2013)** Nitrate was detected in two monitoring wells, at concentrations of 1.5 mg/L (SS17-MW07) and 9.3 J mg/L (SS17-MW23). Nitrate concentrations did not exceed the USEPA MCL (10 mg/L) in any of the wells sampled during Quarter 2 sampling event.
- **Quarter 3 (February 2014)** Nitrate was detected in SS17-MW07 at an estimated concentration of 0.74 J mg/L. Nitrate concentrations did not exceed the USEPA MCL (10 mg/L) in any of the wells sampled during Quarter 3 sampling event.
- **Quarter 4 (May 2014)** Nitrate was not detected in any of the six monitoring wells sampled during Quarter 4.

5.1.6 Total Dissolved Solids

- **Quarter 1 (August 2013)** Total dissolved solids concentrations ranged from 2,630 mg/L (SS17-MW07) to 7,520 mg/L (SS17-MW22) in the groundwater samples collected during the Quarter 1 sampling event. TDS concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) in all wells sampled.
- **Quarter 2 (November 2013)** Total dissolved solids concentrations ranged from 2,750 mg/L (SS17-MW07) to 8,440 mg/L (SS17-MW22) in the groundwater samples collected during the Quarter 2 sampling event. TDS concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) in all wells sampled.
- **Quarter 3 (February 2014)** Total dissolved solids concentrations ranged from 2,500 mg/L (SS17-MW07) to 7,830 mg/L (SS17-MW22) in the groundwater samples collected during the Quarter 3 sampling event. TDS concentrations exceeded both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) in all wells sampled.
- **Quarter 4 (May 2014)** Total dissolved solids concentrations ranged from 2,460 mg/L (SS17-MW07) to 7,240 mg/L (SS17-MW22) in samples collected during the Quarter 4 sampling event. TDS concentrations exceed both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L) in all wells sampled. TDS concentrations in the six wells sampled (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23) are below 10,000 mg/L for all quarterly sampling events. Groundwater with TDS concentrations greater than 10,000 mg/L is classified by the USEPA as a Class III B aquifer (USEPA, 1986), which is designated as unfit for human consumption. Due to concentrations being under 10,000 mg/L, human ingestion of groundwater at SS-17 is identified as a valid exposure pathway.

5.2 Soil Analytical Results

Six (6) soil samples (including one duplicate) were collected from the 6 borings advanced during the fourth quarter, Figure 4-1 (Appendix A). Soil samples were analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO, and TPH-ORO. Analytical results for these soil samples are summarized in Table 5-2. Figure 5-6 presents NMED Soil Screening Levels – Residential level soil exceedances from this sampling event.

5.2.1 Volatile Organic Compounds

Fourteen (14) VOCs (benzene, n-butylbenzene, sec-butylbenzene, ethylbenzene, hexane, isopropylbenzene, p-isopropyltoluene, naphthalene, n-Propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, toluene, m,p-xylene and o-xylene) were detected above the MDL in soil samples collected during the annual soil sampling event. Constituents above the NMED Residential levels are identified below, by boring.

- **SS17-SB301:** Naphthalene and 1,2,4-Trimethylbenzene.

- **SS17-SB302:** Benzene, Ethylbenzene, Naphthalene and 1,2,4-Trimethylbenzene.
- **SS17-SB303:** No recorded exceedances.
- **SS17-SB304:** No recorded exceedances.
- **SS17-SB305:** Ethylbenzene, Naphthalene and 1,2,4-Trimethylbenzene.
- **SS17-SB306:** No recorded exceedances.

5.2.2 Semi-Volatile Organic Compounds

Eighteen (18) SVOCs (2,4-Dimethylphenol, 3&4-Methylphenol, Phenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene, Phenanthrene and Pyrene) were detected above the MDL in soil samples collected during the annual soil sampling event. Constituents exceeding the NMED Residential levels are identified below, by boring.

- **SS17-SB301:** 1-Methylnaphthalene and Naphthalene.
- **SS17-SB302:** 1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene.
- **SS17-SB303:** Non – Detect on all SVOC constituents.
- **SS17-SB304:** 1-Methylnaphthalene and Naphthalene.
- **SS17-SB305:** 1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene.
- **SS17-SB306:** 1-Methylnaphthalene.

5.2.3 Total Petroleum Hydrocarbons

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 Investigations and Remediation (NMED, 2012b). The TPH screening guideline (residential direct exposure), for Diesel #2/crankcase oil (1,000 milligrams per kilogram [mg/kg]) (Table 6-3, NMED, 2012b) will be used as the action level for TPH concentrations (combined GRO, DRO, and ORO). Total TPH concentrations per boring are identified below.

- **SS17-SB301:** Total TPH 5,086 mg/kg.
- **SS17-SB302:** Total TPH 15,451 mg/kg.
- **SS17-SB303:** Total TPH 8.56 mg/kg (Does not exceed the NMED total value).
- **SS17-SB304:** Total TPH 1,431 mg/kg.
- **SS17-SB305:** Total TPH 7,376 mg/kg.
- **SS17-SB306:** Total TPH 433 mg/kg (Does not exceed the NMED total value).

6 COMPARISON OF ANNUAL SAMPLE RESULTS TO SS-17 BASELINE RESULTS

This section provides a comparison of the four quarterly groundwater results and the annual soil results with the results of the baseline events (June 2011 and November 2012) for the most frequently detected contaminants of concern (VOCs, SVOCs, and Metals). Monitoring wells SS17-MW21, SS17-MW22, and SS17-MW23 were added during the first quarter sampling event to better delineate the contamination identified, therefore SS17-MW21, SS17-MW22, and SS17-MW23 will be compared to the first quarter (August 2013) sampling event for the following discussion.

6.1 Groundwater

6.1.1 Volatile Organic Compounds

Table 6-1 presents the current LTM results for the VOCs which exceed action levels in the groundwater samples collected from the SS-17 monitoring well network (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23). On a well by well basis, comparisons of the quarterly data to the baseline (June 2011) results are summarized in analytical graphs included in Appendix A, Figures 5-2E, 5-3E, 5-4E and 5-5E; and as identified below:

- **SS17-MW05:** Benzene concentrations are recorded as 0.00098 U mg/L (June 2011) to 0.011 U mg/L in quarters 1-3 and 0.124 mg/L in quarter 4, which exceeds USEPA MCL and NMWQCC standards. The ethylbenzene concentration remains consistently around the 3.00 mg/L range during these four quarters, which exceeds USEPA MCL and NMWQCC standards. The naphthalene concentration increased from 0.475 mg/L (June 2011) to 0.635 mg/L, 0.732 mg/L, and 0.504 mg/L during quarters 1-3, and decreased to an estimated value of 0.242 J mg/L during quarter 4. All samples exceed USEPA MCL and NMWQCC standards.
- **SS17-MW07:** The June 2011 benzene concentration is reported as 0.000049 U mg/L (June 2011). Benzene concentrations for Quarters 1-4 are reported as 0.00072 mg/L, 0.00021 mg/L, 0.00079 J mg/L, and 0.0284 mg/L, respectively. Only quarter 4 exceeded the USEPA MCL and NMWQCC standards. The ethylbenzene concentration increased from 0.00018 mg/L (June 2011), however concentration varied between samples form 0.0163 mg/L, 0.0046 mg/L, 0.00028 mg/L, and 0.0573 mg/L during quarters 1-4. Ethylbenzene concentrations are below the USEPA MCL and NMWQCC standards. The naphthalene concentration increased from 0.000175 mg/L (June 2011) to 0.0011 J mg/L, 0.0027 J mg/L, 0.0011 J mg/L, and 0.0097 J mg/L during quarters 1-4, which are below the USEPA MCL and NMWQCC standards. Naphthalene values for Quarters 2 and 3 are estimated values.
- **SS17-MW08:** The concentration of benzene increased from 0.0049 µg/L (June 2011) to 0.011 U mg/L, 0.011 U mg/L, 0.0049 U mg/L, 0.0213 J mg/L during

quarters 1-4. (Quarters 1, 2 and 3 show a "U" identifier, indicating that the compound was "non-detect" and the value associated with it only shows the lowest value that was able to be reasonably seen during that analysis.) Quarter 4 results show an estimated value, exceeding USEPA MCL and NMWQCC standards. The ethylbenzene concentration decreased from 6.290 mg/L (June 2011) to 4.130 mg/L, 4.370 mg/L, 3.580 mg/L, and 2.880 mg/L, for quarters 1-4 respectively. Ethylbenzene concentrations exceed USEPA MCL and NMWQCC standards. The naphthalene concentration decreased from 0.470 J mg/L (June 2011) to 0.415 mg/L (quarter 1), increased to 0.580 mg/L and 0.608 mg/L in quarters 2 and 3 and decreased to an estimated value of 0.242 J mg/L in quarter 4 (all quarters exceed USEPA MCL and NMWQCC standards). The m,p-xylene concentration (4.980 mg/L, June 2011) decreased in quarters 1, 3, and 4 to 4.580 mg/L, 4.320 mg/L, and 3.580 mg/L. Quarter 2 had a slight increase in concentration to 5.730 mg/L. All of the quarterly concentrations exceed the NMWQCC standards.

- **SS17-MW-21:** The concentration of benzene increased from 49.800 mg/L (August 2013) to 54.400 mg/L and 53.600 mg/L (quarters 2 and 3), and decreased to 45.700 mg/L during quarter 4. All four quarters exceed USEPA MCL and NMWQCC standards. The ethylbenzene concentration decreased from 7.720 mg/L (August 2013) to 5.860 mg/L, 6.700 mg/L, and 3.780 mg/L during quarters 2-4. All quarters exceed USEPA MCL and NMWQCC standards. The naphthalene concentration increased from 0.277 mg/L (August 2013) to 1.000 mg/L in quarter 2, with a gradual decrease to 0.500 U mg/L and 0.148 mg/L in quarters 3 and 4 (Quarters 1, 2 and 4 exceed USEPA MCL and NMWQCC standards; quarter 3 is flagged as a "non-detect" value.). The m,p-xylene concentration decreased from 21.400 mg/L (August 2013) to 16.300 mg/L, 17.900 mg/L, and 9.290 mg/L during quarters 2 through 4. All four quarters exceed the NMWQCC standards. Due to the recent construction date of this well, no baseline data (June 2011) is available. Quarter 1 groundwater analytical results were considered baseline for this well, with comparison occurring during the following quarters.
- **SS17-MW22:** The concentration of benzene were detected at 0.00025 J mg/L (quarter 1), 0.162 mg/L (quarter 2), 0.00052 J mg/L (quarter 3) and 0.00044 J mg/L during quarter 4. Only quarter 2 exceeded USEPA MCL and NMWQCC standards, quarters 1, 2 and 3 are estimated values. The ethylbenzene concentrations were detected at 0.00029 U mg/L (quarter 1) to 0.0304 mg/L (quarter 2), 0.00030 J mg/L (quarter 3), and 0.0012 mg/L (quarter 4). The naphthalene concentrations are reported at 0.0010 U mg/L (August 2013) and 0.0045 J mg/L in quarter 2. Concentrations remained constant at 0.001 U mg/L and 0.001 U mg/L during quarters 3 and 4. The m,p-xylene concentration are reported as 0.00030 U mg/L (quarter 1) to 0.0801 mg/L (quarter 2), 0.00048 U mg/L (quarter 3), and 0.0021 mg/L (quarter 4). Due to the recent construction

date of this well, quarter 1 analytical results were considered baseline data, with comparison occurring during the following quarters.

- **SS17-MW23:** Benzene concentrations decreased from 0.351 mg/L to 0.060 mg/L, 0.00088 J mg/L, and 0.00078 J mg/L during quarters 1 through 4. Quarters 1 and 2 exceeded USEPA MCL and NMWQCC standards. The ethylbenzene concentrations increased from 0.0018 J mg/L (August 2013) to 0.0112 mg/L, 0.0023 mg/L, and 0.0105 mg/L during quarters 1 through 4 (concentrations do not exceed USEPA MCL and NMWQCC standards). Naphthalene concentrations are reported as 0.0050 U mg/L, 0.0014 J mg/L, 0.0010 U mg/L, and 0.0010 U mg/L from quarters 1 through 4, respectively. The m,p-xylene concentrations ranged from 0.0015 U mg/L (August 2013) to 0.0309 mg/L and 0.0024 mg/L during quarters 2 and 4 and decreased to 0.00048 mg/L during quarter 3. (Concentrations do not exceed the NMWQCC standards). Due to the construction date of the well, quarter 1 analytical results were considered baseline data.

6.1.2 Semi-Volatile Organic Compounds

Table 6-1 presents the current LTM results for the SVOCs which exceed action levels in the groundwater samples collected from the SS-17 monitoring well network (SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, SS17-MW22, and SS17-MW23). On a well by well basis, comparisons of the quarterly data to the baseline (June 2011) results are summarized in analytical graphs included in Appendix G and as identified below:

- **SS17-MW-05:** Naphthalene increased from 0.202 mg/L (June 2011) in SS17-MW05 to 0.383 mg/L (quarter 1), 0.282 mg/L (quarter 2), 0.228 mg/L (quarter 3) and 0.215 mg/L (quarter 4).
- **SS17-MW07:** No exceedances of USEPA MCL and/or NMWQCC standards for SVOCs have been recorded for SS17-MW07.
- **SS17-MW08:** Naphthalene remained above NMWQCC standards at SS17-MW08, ranging from base levels of 0.223 mg/L (June 2011) to 0.274 mg/L (quarter 1), 0.227 mg/L (quarter 2), 0.199 mg/L (quarter 3), and 0.019 mg/L (quarter 4).
- **SS17-MW21:** Subsequent to the placement of MW21, 22 and 23, Naphthalene was identified in SS17-MW21 at values of 0.277 mg/L (quarter 1), 1.090 mg/L (quarter 2), 0.274 mg/L (quarter 3), and 0.227 mg/L (quarter 4). Phenol concentrations were also recorded above the NMWQCC standards of 0.030 mg/L, at .0509 mg/L (quarter 1), 0.271 mg/L (quarter 3), and 1.220 mg/L (quarter 4). Phenol shows a rapid increase in concentration values from initial data to the fourth quarter.
- **SS17-MW22:** No exceedances of USEPA MCL and/or NMWQCC standards for SVOCs have been recorded for SS17-MW22.

- **SS17-MW23:** No exceedances of USEPA MCL and/or NMWQCC standards for SVOCs have been recorded for SS17-MW23.

6.1.3 Metals

Table 6-1 shows current results for the most frequently detected dissolved (filtered) metals (iron and manganese) in groundwater at Site SS-17. On a well by well basis, comparisons of the quarterly dissolved metals data to the baseline (June 2011) results are summarized in analytical graphs included in Appendix G and as identified below:

- **SS17-MW-05:** The concentration of total iron increased from 0.049 mg/L (June 2011) to 1.260 mg/L, 1.680 mg/L, 0.972 mg/L, and 0.0245 J mg/L. Quarters 1 through 3 are above the USEPA MCL, NMWQCC standards, and the NMED Approved Basewide Background Levels. The dissolved manganese concentration decreased from 0.430 mg/L (June 2011) to 0.319 mg/L, 0.385 mg/L, 0.191 mg/L, and 0.172 mg/L, all of which are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW07:** Total iron was detected at 0.220 mg/L (June 2011), 0.215 J mg/L (quarter 1), 0.459 mg/L (quarter 2), 0.295 J mg/L (quarter 3) and 0.0911 J mg/L (quarter 4), respectively. Quarter 2 is above the USEPA MCL, NMWQCC standard, and NMED Approved Basewide Background Levels, quarters 1, 3 and 4 are estimated values. The dissolved manganese concentration decreased from 0.840 mg/L (June 2011) to 0.688 mg/L, 0.567 mg/L, 0.501 mg/L, and 0.581 mg/L, which are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW08:** Total iron was reported as 0.061 mg/L (June 2011), 0.134 J mg/L (quarter 1), 0.0923 J mg/L (quarter 2), 0.0455 J mg/L (quarter 3) and 0.0954 J mg/L (quarter 4). All four quarters are estimated values, and do not exceed the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels. The dissolved manganese concentration decreased from 0.370 mg/L (June 2011) to 0.221 mg/L, 0.187 mg/L, 0.115 mg/L, and 0.167 mg/L during quarters 1 through 4. Quarter 1 is above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels, while quarters 2 through 4 are above the USEPA MCL and NMED Approved Basewide Background Levels.
- **SS17-MW-21:** Due to the recent construction date of this well, no baseline data (June 2011) is available. Quarter 1 groundwater analytical results will be considered baseline for this well, with comparison occurring during the following quarters. The concentration of total iron increased from 0.882 mg/L to 1.44 mg/L during quarter 2 and decreased to 0.386 mg/L in quarter 3. Total iron in quarter 4 is reported as an estimated value 0.154 J mg/L. Quarters 1-3 are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels. The dissolved manganese concentration decreased from 0.680 mg/L (August 2013) to 0.247 mg/L, 0.0655 mg/L and 0.0339 mg/L during quarters 2

through 4. Quarter 1 and 2 were above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels, while quarters 3 and 4 were below NMWQCC standards.

- **SS17-MW22:** Due to the recent construction date of this well, no baseline data (June 2011) is available. Quarter 1 groundwater analytical results will be considered baseline for this well, with comparison occurring during the following quarters. The concentration of total iron increased from 1.74 mg/L to 3.51 mg/L, 17.9 mg/L quarters 1-3; decreasing in quarter 4 to 5.06 mg/L. All four quarters are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels. The dissolved manganese concentration increased from 4.84 mg/L (August 2013) to 5.3 mg/L, 5.4 mg/L, and 5.09 mg/L during the four quarters. All four quarters are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW23:** Due to the recent construction date of this well, no baseline data (June 2011) is available. Quarter 1 groundwater analytical results will be considered baseline for this well, with comparison occurring during the following quarters. The concentration of total iron decreased from 15.6 mg/L to 0.846 mg/L, 0.555 mg/L during quarters 2 and 4, and increased to 29 mg/L during quarter 3. Quarters 2 and 3 are below the NMWQCC standard, while all four quarters are above the USEPA MCL and NMED Approved Basewide Background Levels. The dissolved manganese concentration increased from 2.88 mg/L (August 2013) to 3.04 mg/L during quarter 2 and decreased during quarters 3 and 4 to 2.65 mg/L and 1.74 mg/L respectively. All four quarters are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.

6.1.4 Total Petroleum Hydrocarbons

Table 6-1 shows current results for total TPH concentrations in groundwater at Site SS-17. The NMED TPH screening guideline of 32 mg/L is the action level that total TPH concentrations detected in groundwater are gauged upon. On a well by well basis, comparisons of the quarterly total TPH concentrations, as they compare to baseline data is summarized in analytical graphs included in Appendix G and as identified below:

- **SS17-MW-05:** No exceedances of NMWQCC standards for total TPH have been recorded for SS17-MW05.
- **SS17-MW-07:** No exceedances of NMWQCC standards for total TPH have been recorded for SS17-MW07.
- **SS17-MW-08:** The concentration of total TPH decreased from 53.63 mg/L (June 2011) to 33.85 mg/L (quarter 1), 26.4 mg/L (quarter 2), 37.0 mg/L (quarter 3) and 20.3 mg/L (quarter 4).
- **SS17-MW-21:** Due to the installation date of SS17-MW21, Quarter 1 data is utilized as the background level. Total TPH concentrations for SS17-MW21 were

recorded as 299.32 mg/L (quarter 1), 266.40 mg/L (quarter 2), 273.38 mg/L (quarter 3), and 195.50 mg/L (quarter 4).

- **SS17-MW-22:** No exceedances of NMWQCC standards for total TPH have been recorded for SS17-MW22.
- **SS17-MW-23:** No exceedances of NMWQCC standards for total TPH have been recorded for SS17-MW23.

6.1.5 Nitrate

On a well by well basis, quarterly nitrate data for the SS-17 site are compared to the baseline (June 2011) results in analytical graphs included in Appendix G and as identified below:

- **SS17-MW-05:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW05.
- **SS17-MW-07:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW07.
- **SS17-MW-08:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW08.
- **SS17-MW-21:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW21.
- **SS17-MW-22:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW22.
- **SS17-MW-23:** No exceedances of USEPA MCL and/or NMWQCC standards for Nitrate have been recorded for SS17-MW23.

6.1.6 Total Dissolved Solids

Table 6-1 shows current results for the TDS in groundwater at Site SS-17. TDS concentrations in all wells exceed both the NMWQCC groundwater standard (1,000 mg/L) and USEPA Secondary MCL (500 mg/L). Groundwater with TDS concentrations greater than 10,000 mg/L is classified by the USEPA as a Class III B aquifer (USEPA, 1986), which is designated as unfit for human consumption. As a result of this classification, the wells located at the SS17 site remain valid exposure pathway. On a well by well basis, comparisons of the quarterly TDS data to the baseline (June 2011) results are summarized in analytical graphs included in Appendix G and as identified below:

- **SS17-MW-05:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,540 mg/L. Current TDS concentrations for quarterly Sampling events 1-4 are 3,470 mg/L (quarter 1), 3640 mg/L (quarter 2), 3,230 mg/L (quarter 3), and 3,120 mg/L (quarter 4). The TDS concentration for SS17-MW05 has remained relatively constant over the first four quarters of sampling.

- **SS17-MW07:** TDS was identified during the June 2011 background data sampling event at a concentration of 2,600 mg/L. Current TDS concentrations for quarterly Sampling events 1-4 are 2,630 mg/L (quarter 1), 2,750 mg/L (quarter 2), 2,500 mg/L (quarter 3), and 2,460 mg/L (quarter 4). The TDS concentration for SS17-MW07 has remained relatively constant over the first four quarters of sampling.
- **SS17-MW08:** TDS was identified during the June 2011 background data sampling event at a concentration of 2,530 mg/L. Current TDS concentrations for quarterly Sampling events 1-4 are 3,340 mg/L (quarter 1), 4,040 mg/L (quarter 2), 3,340 mg/L (quarter 3), and 3,170 mg/L (quarter 4). The TDS concentration for SS17-MW08 has increased since the June 2011 baseline data.
- **SS17-MW21:** Due to the recent construction date of this well, no comparative baseline data (June 2011) is available. Current TDS concentrations for quarterly Sampling events 1-4 are 3,740 mg/L (quarter 1), 3,540 mg/L (quarter 2), 3,510 mg/L (quarter 3), and 3,290 mg/L (quarter 4).
- **SS17-MW22:** Due to the recent construction date of this well, no comparative baseline data (June 2011) is available. Current TDS concentrations for quarterly Sampling events 1-4 are 7,520 mg/L (quarter 1), 8,440 mg/L (quarter 2), 7,830 mg/L (quarter 3), and 7,240 mg/L (quarter 4).
- **SS17-MW23:** Due to the recent construction date of this well, no comparative baseline data (June 2011) is available. Current TDS concentrations for quarterly Sampling events 1-4 are 6,520 mg/L (quarter 1), 7,200 mg/L (quarter 2), 7,600 mg/L (quarter 3), and 4,630 mg/L (quarter 4).

6.2 Soil

Table 5-2 presents the current results for the COCs which exceed action levels in the soil samples collected from the SS-17 site (SS17-SB301 through SS17-SB306). On a location by location basis, comparisons of the data to the baseline (November 2012) results are summarized below:

- **SS17-SB301:** SS17-SB301 is compared to SS17-SB202 from November 2012. The concentration of TPH-GRO increased from 4,230 mg/kg (November 2012) to 4,650 mg/kg in the July 2014 sampling event, which exceeds the NMED Residential Levels. The ethylbenzene concentration decreased from 258 mg/kg to 163 mg/kg during the July 2014 event, but continues to exceed the NMED Residential Levels. The naphthalene concentration increased from 45.1 mg/kg (November 2012) to 49.1 mg/kg during the July 2014 event, which exceeds the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene increased from 95.2 mg/kg (November 2012) to 237 mg/kg (July 2014), which exceeds the NMED Residential Levels.

  Data results for SS17-SB301-A (field duplicate) shows some constituents outside of the acceptable 10% range for a duplicate sample. Due to the nature of VOCs

to partition from the liquid to gaseous phase after they have been released to soils, it is imperative to limit or eliminate the loss of the compounds of concern through direct volatilization during the sampling event. Therefore, samples were collected utilizing EnCore style sampling devices. Samples were collected, with a direct insertion of the sampling device into the separated soil tube, as dictated by the elevated reading from the PID. The duplicated sample was collected as close to the original sample point as possible, however data may vary due to the inability to mix soils (limiting volatilization) and collect a true representative duplicate sample.

- **SS17-SB302:** SS17-SB302 is compared to SS17-SB208 from November 2012. The concentration of TPH-GRO increased from 9,920 mg/kg (November 2012) to 14,500 mg/kg in the July 2014 sampling event, which exceeds the NMED Residential Levels. The benzene concentration decreased from 185 mg/kg to 176 mg/kg during the July 2014 event, but continues to exceed the NMED Residential Levels. The ethylbenzene concentration decreased from 451 mg/kg to 329 mg/kg during the July 2014 event, but continues to exceed the NMED Residential Levels. The naphthalene concentration increased from 60.5 mg/kg (November 2012) to 67.4 J mg/kg during the July 2014 event, which continues to exceed the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene decreased from 478 mg/kg (November 2012) to 406 mg/kg (July 2014), but continues to exceed the NMED Residential Levels.
- **SS17-SB303:** SS17-SB303 is compared to SS17-SB211 from November 2012. The concentration of TPH-GRO decreased from 4,900 mg/kg (November 2012) to 3.98 J mg/kg in the July 2014 sampling event, which does not exceed the NMED Residential Levels. The benzene concentration decreased from 68.3 mg/kg to 0.0014 J mg/kg during the July 2014 event, which does not exceed the NMED Residential Levels. The ethylbenzene concentration decreased from 106 mg/kg to 0.00094 U µg/kg during the July 2014 event, which does not exceed the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene decreased from 124 mg/kg (November 2012) to 0.00094 U mg/kg (July 2014), which does not exceed the NMED Residential Levels.
- **SS17-SB304:** SS17-SB304 is compared to SS17-SB216 from November 2012. The concentration of TPH-GRO decreased from 8,270 mg/kg (November 2012) to 474 mg/kg in the July 2014 sampling event, which does not exceed the NMED Residential Levels. The ethylbenzene concentration decreased from 378 mg/kg to 22.900 A mg/kg during the July 2014 event, which does not exceed the NMED Residential Levels. The naphthalene concentration decreased from 107 mg/kg (November 2012) to 0.343 mg/kg during the July 2014 event, which does not exceed the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene decreased from 479 mg/kg (November 2012) to 0.374 mg/kg (July 2014), which does not exceed the NMED Residential Levels.

- **SS17-SB305:** SS17-SB305 is compared to SS17-SW121 from November 2012. The concentration of TPH-GRO increased from 5,970 mg/kg (November 2012) to 6,430 mg/kg in the July 2014 sampling event, which exceeds the NMED Residential Levels. The ethylbenzene concentration decreased from 253 mg/kg to 110 B mg/kg during the July 2014 event, which exceeds the NMED Residential Levels. The naphthalene concentration increased from 47.5 mg/kg (November 2012) to 61.7 mg/kg during the July 2014 event, which exceeds the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene decreased from 385 mg/kg (November 2012) to 384 B mg/kg (July 2014), which exceeds the NMED Residential Levels.
- **SS17-SB306:** SS17-SB306 is compared to SS17-SW128 from November 2012. The concentration of TPH-GRO decreased from 1,380 mg/kg (November 2012) to 1,330 mg/kg in the July 2014 sampling event, which exceeds the NMED Residential Levels. The concentration of 1,2,4-Trimethylbenzene decreased from 98 mg/kg (November 2012) to 0.0583 J mg/kg (July 2014), which does not exceed the NMED Residential Levels.

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7 CONCLUSIONS

7.1 Treatment System

Overall, the AISEB system has been operating in accordance with its target design. No major modifications to the AISEB treatment system have been necessary during this operating period. The only minor modification required was in association with the AISEB system creating surface bubbling during seasonal rainfall events. The AISEB pressure was reduced to approximately 5 psi in order to achieve stabilization with the subsurface environment. However, due to low Dissolved Oxygen and Oxygen Reduction Potential levels identified at SS17-MW21, pressure in the AISEB treatment system will be increased and monitored to ensure no effects of the system are present at the surface. The system will be monitored and adjusted at the start of the seasonal rainfall events.

7.2 Groundwater

7.2.1 Groundwater COCs

The SS-17 LTM Annual groundwater sampling program was developed to address the identified COCs and MNA Parameters. Analytical results obtained during the first 4 quarters of sampling were evaluated and compared with the results of the baseline sampling event for groundwater (June 2011).

Benzene had moderate increases in concentration in SS17-MW05 and SS17-MW07, during quarters 1-3 and significant increases for Quarter 4. Concentrations in SS17-MW08 remained consistent through Quarters 1-3, with a slight rise in concentration during Quarter 4. Benzene concentrations in SS17-MW-21, SS17-MW-22, and SS17-MW-23 remained consistent or decreased in concentration value for all four quarters.

Overall, there appears to be a slight increase in naphthalene concentrations, while ethylbenzene, toluene, m,p-xylene, and o-xylene are experiencing a slight decrease during the annual SS-17 groundwater sampling events when compared with the baseline event (June 2011). The SS17-MW21 well appears to be the center of all elevated VOC levels, with SS17-MW08 also indicating elevated levels of VOCs throughout the four quarterly events.

Based upon the comparison of baseline data (June 2011) and the annual SS-17 sampling events, analytical results shows an overall slight increase of groundwater concentrations in benzene and naphthalene. Highest concentrations for constituents appear at SS17-MW21. SS17-MW08 and SS17-MW23 show elevated levels above USEPA MCL, for some contaminates. Highest groundwater impacts appear to be centered on SS-17-MW21, with limited migration of contaminates in a southwesterly direction. Quarter eight sampling will include the full SS17 monitoring well network, identifying extent of migration.

7.2.2 Groundwater MNAs

Metals detected at concentrations above the applicable action levels (iron and manganese) are observed in monitoring wells located throughout Site SS-17. The distribution of these two metals at Site SS-17 is considered ubiquitous, most likely the result of the natural geochemistry of the local groundwater.

Based upon the comparison of baseline data and the annual SS-17 sampling events, analytical results shows an increase of groundwater concentrations in total iron and dissolved manganese concentrations. Highest concentrations for constituents appear at SS17-MW22 and SS17-MW23. Biodegradation reactions cause a number of geochemical changes or diagnostic footprints, to include increases in concentrations of iron and dissolved manganese. Therefore, SS17-MW22 and SS17-MW23 show effects of the AISEB treatment on the groundwater plume, during all four quarters of sampling. The increases are minimal, however due to the distance of the SS17 wells to the Zone B injection well, the results are as expected. Concentrations for iron and dissolved manganese in SS17-MW21 are decreasing. Based upon the location and concentrations of the main plume around SS17-MW21, it appears that the biodegradation system has had little influence to date, due to the concentration of contaminants. The air pressure for the system will increased within Zone A to allow for a maximum air flow and impact on the contaminant plume.

7.2.3 Groundwater TDS

Total dissolved solids exceed NMWQCC and USEPA MCL action levels throughout the SS-17 monitoring well network. However, TDS concentrations in none of the six wells (SS17-MW05, SS17-MW07, SS17-MW08. SS17-MW-21, SS17-MW-22, and SS17-MW-23) are greater than 10,000 mg/L. Groundwater with TDS concentrations greater than 10,000 mg/L is classified by the USEPA as a Class III B aquifer (USEPA, 1986), which is designated as unfit for human consumption. As a result of this classification the human ingestion of groundwater at Site SS-17 is a valid exposure pathway.

7.3 Soil

Analytical results obtained during the annual soil boring activities (2014) were evaluated and compared with the results of the baseline sampling event for soils (November 2012).

Based upon the analytical data, there appears to be an increase in the concentration of TPH-GRO in SS17-SB301, SS17-SB302 and SS17-SB305. SS17-SB303 and SS17-SB304 show a significant decrease in TPH-GRO concentration, while SS17- SB306 shows only a slight decreased in TPH-GRO concentration.

Benzene concentrations decreased in SS17-SB302 and SS17-SB303. However, concentrations continue to exceed the NMED Residential Levels in SS17-SB302.

Ethylbenzene concentrations decreased in the five soils borings where it was detected, but continue to exceed the NMED Residential Levels in SS17-SB302 and SS17-SB305.

The naphthalene concentrations increased at SS17-SB301, SS17-SB302 and SS17-SB305, and continue to exceed the NMED Residential Levels. Naphthalene concentrations decreased below NMED Residential Levels at SS17-SB304.

The concentration of 1,2,4-Trimethylbenzene increased at SS17-SB301, with concentrations continuing to exceed the NMED Residential Levels. Concentrations of 1,2,4-Trimethylbenzene decreased at SS17-SB302 and SS17-SB305, however concentrations for these boring also continue to exceed the NMED Residential Levels. 1,2,4-Trimethylbenzene decreased at SS17-SB303, SS17-SB304 and SS17-SB306, with values below the NMED Residential Levels.

Based upon the comparison of baseline data (November 2012) and the annual SS-17 soil sampling event, analytical results show that borings SS17-SB301, SS17-SB302 and/or SS17-SB305 retain elevated concentrations of TPH-GRO, Naphthalene and 1,2,4-Trimethylbenzene, above NMED Residential Levels. SS17-SB302 continues to have Benzene concentrations in exceedance of the NMED Residential Levels, and SS17-SB302 and SS17-SB305 have Ethylbenzene concentrations above NMED Residential Levels. Although concentrations for the aforementioned constituents may have been detected in the other soil three soil borings, the values for these concentrations either remain below NMED Residential Levels, or have decreased to a range below NMED Residential Levels.

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APPENDIX A

FIGURES

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NATIONVIEW

Location Map
Holloman Air Force Base
New Mexico

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 10 20 40 Miles	2/12/15	FRE
			DRAWING NO: Figure 2-1

SS-17
Long Term Monitoring
Annual Report - 2104
Holloman Air Force Base, New Mexico

Figure 2-1

NATIONVIEW

SS-17
Site Location Map

PROJECT NO:	SCALE: 1" = 0.25 mi.	DATE:	DRAWN BY:
11-0019	0 0.25 0.5 Miles	02/12/15	FRE
			DRAWING NO: Figure 2-2

SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-2

NATIONVIEW

SS-17
Site Plan Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 40 80 160 Feet	02/12/15	FRE
			DRAWING NO: Figure 2-3

SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-3

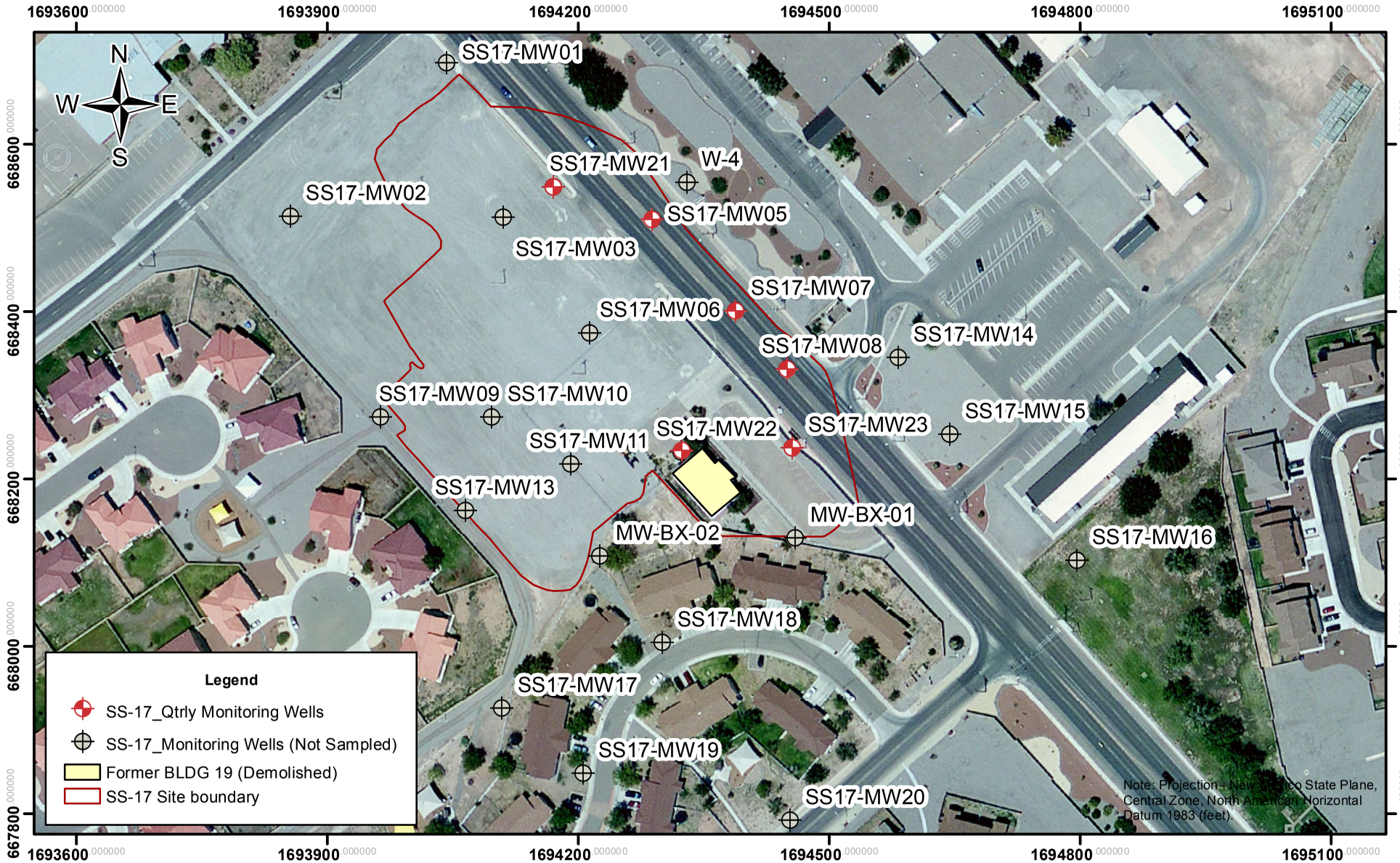
NATIONVIEW

SS-17
2011 Site Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 2-4

SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-4



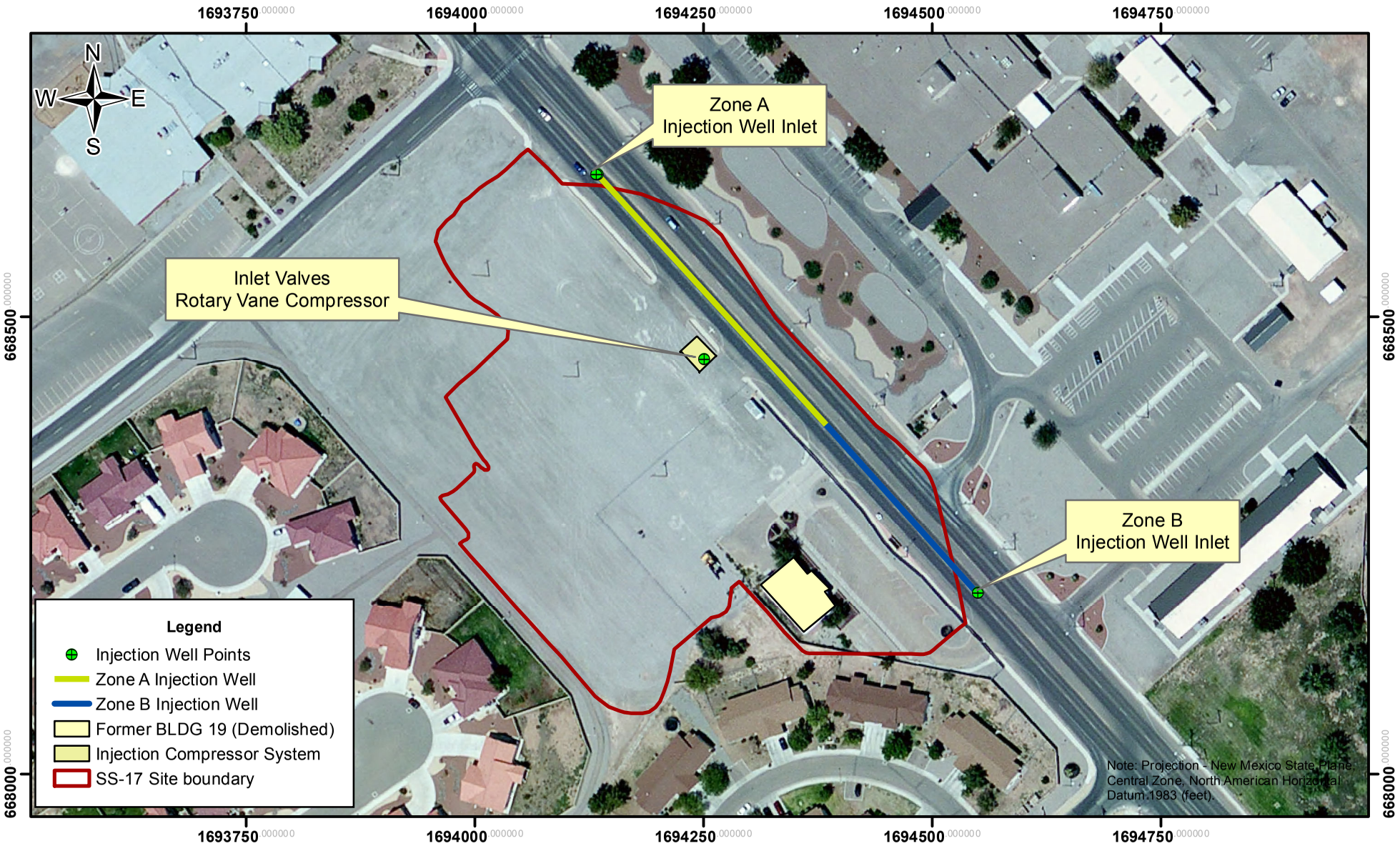
NATIONVIEW

SS-17
Monitoring Well Location Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 125 250 Feet	02/12/15	FRE
			DRAWING NO: Figure 2-5

SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-5



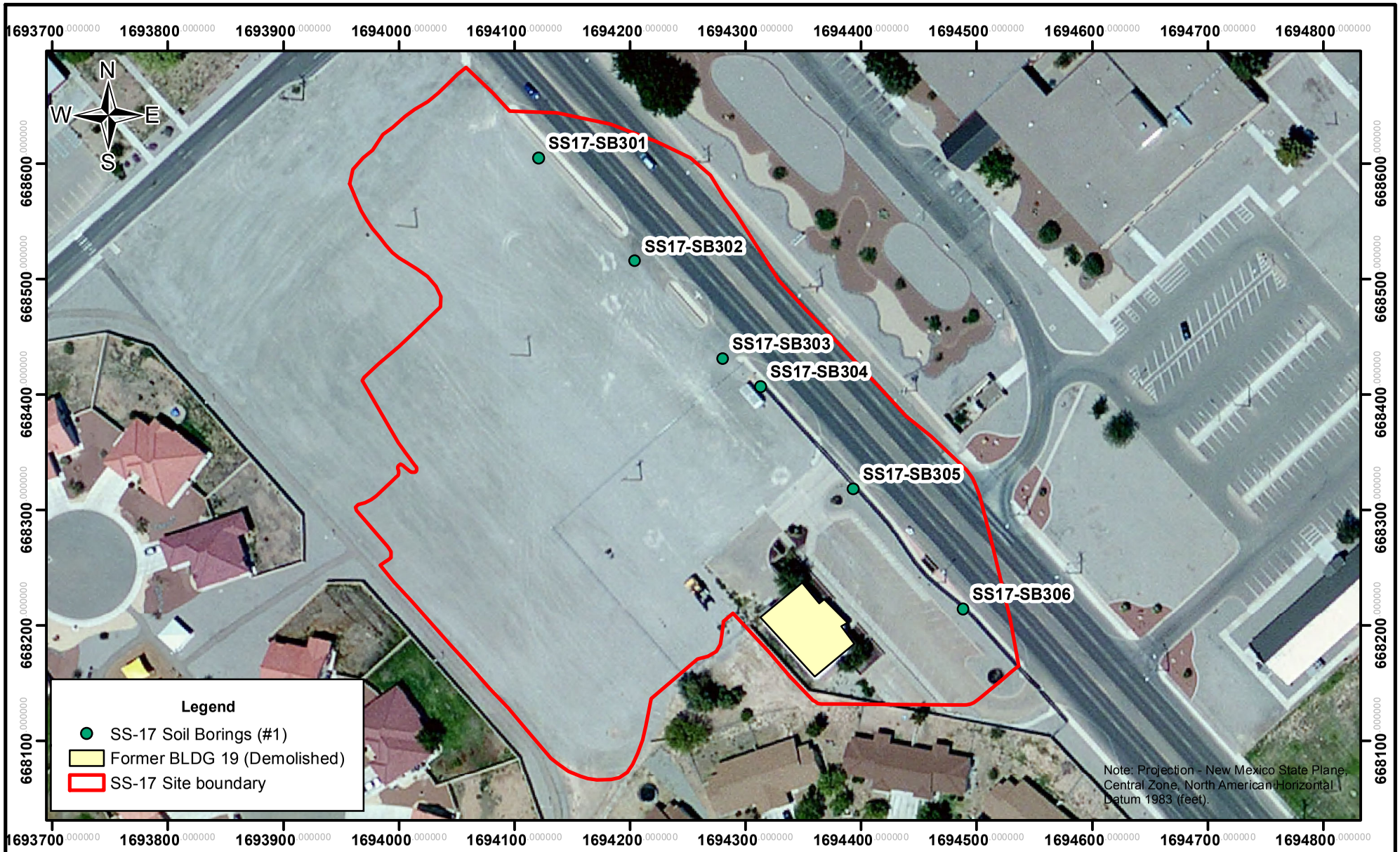
NATIONVIEW

SS-17
Injection Well Inlet Locations

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 55 110 220 Feet	02/12/15	FRE
			DRAWING NO: Figure 2-6

SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-6



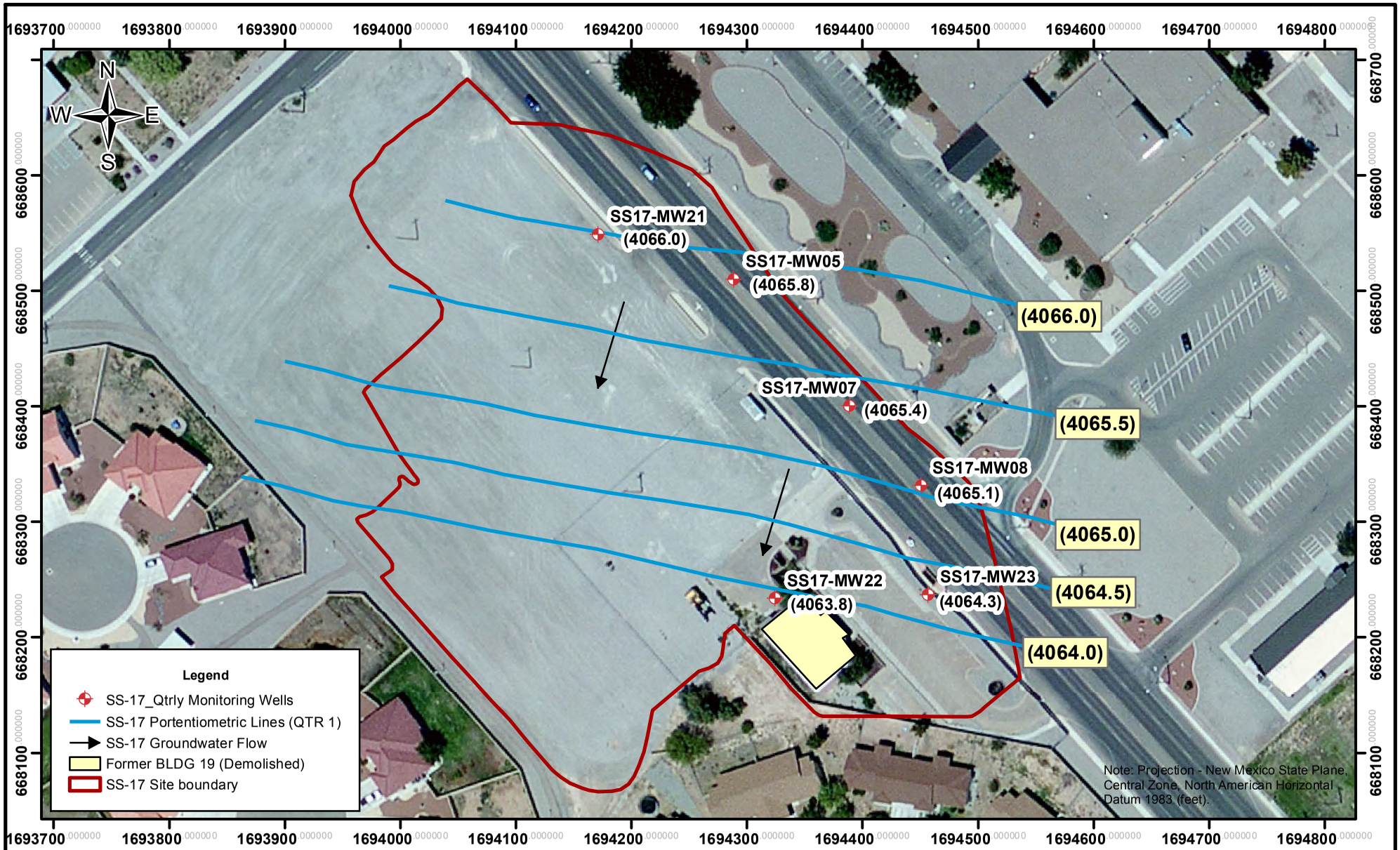
NATIONVIEW

SS-17
Annual Soil Boring Locations

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 45 90 180 Feet	02/12/15	FRE
			DRAWING NO: Figure 4-1

SS-17
Long Term Monitoring
Annual Soil Borings (#1)
Holloman Air Force Base, New Mexico

Figure 4-1



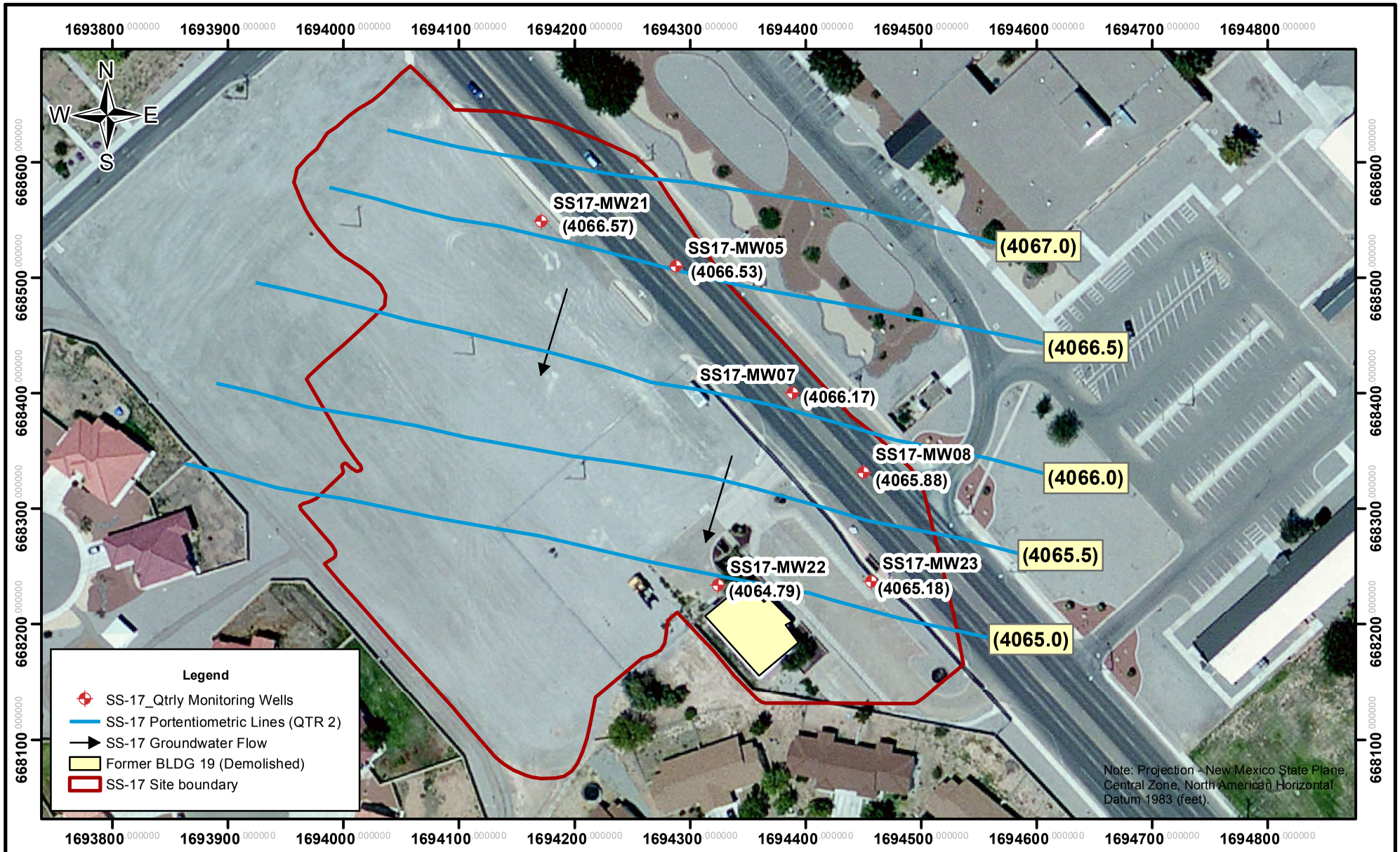
NATIONVIEW

SS-17
Groundwater Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	10/15/14	FRE
			DRAWING NO: Figure 4-2A

SS-17
Long Term Monitoring Report
Quarter 1, Summer 2013
Holloman Air Fiorce Base, New Mexico

Figure 4-2A



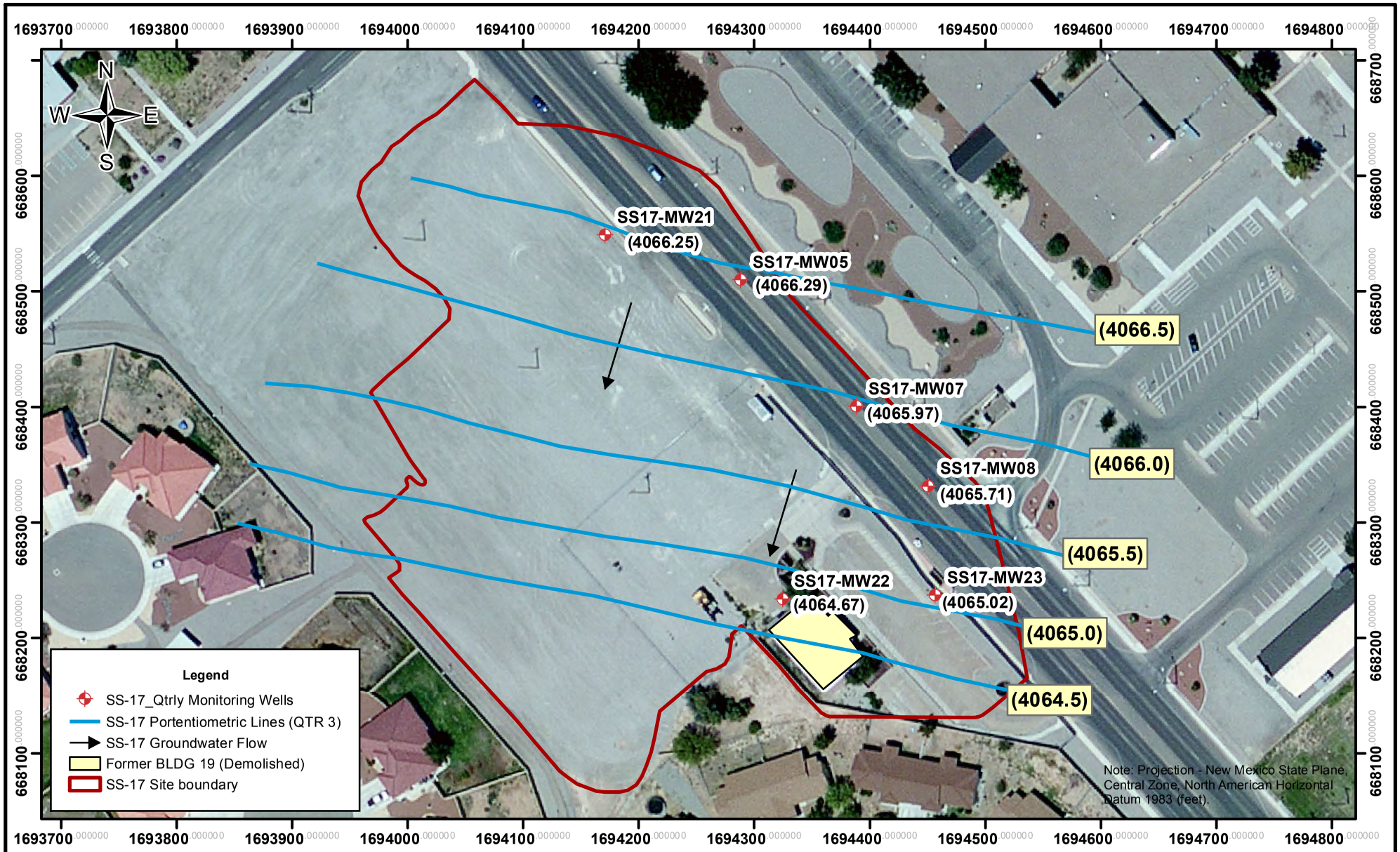
NATIONVIEW

SS-17
Groundwater Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	10/15/14	FRE
			DRAWING NO: Figure 4-2B

SS-17
Long Term Monitoring Report
Quarter 2, Fall 2013
Holloman Air Fiorce Base, New Mexico

Figure 4-2B



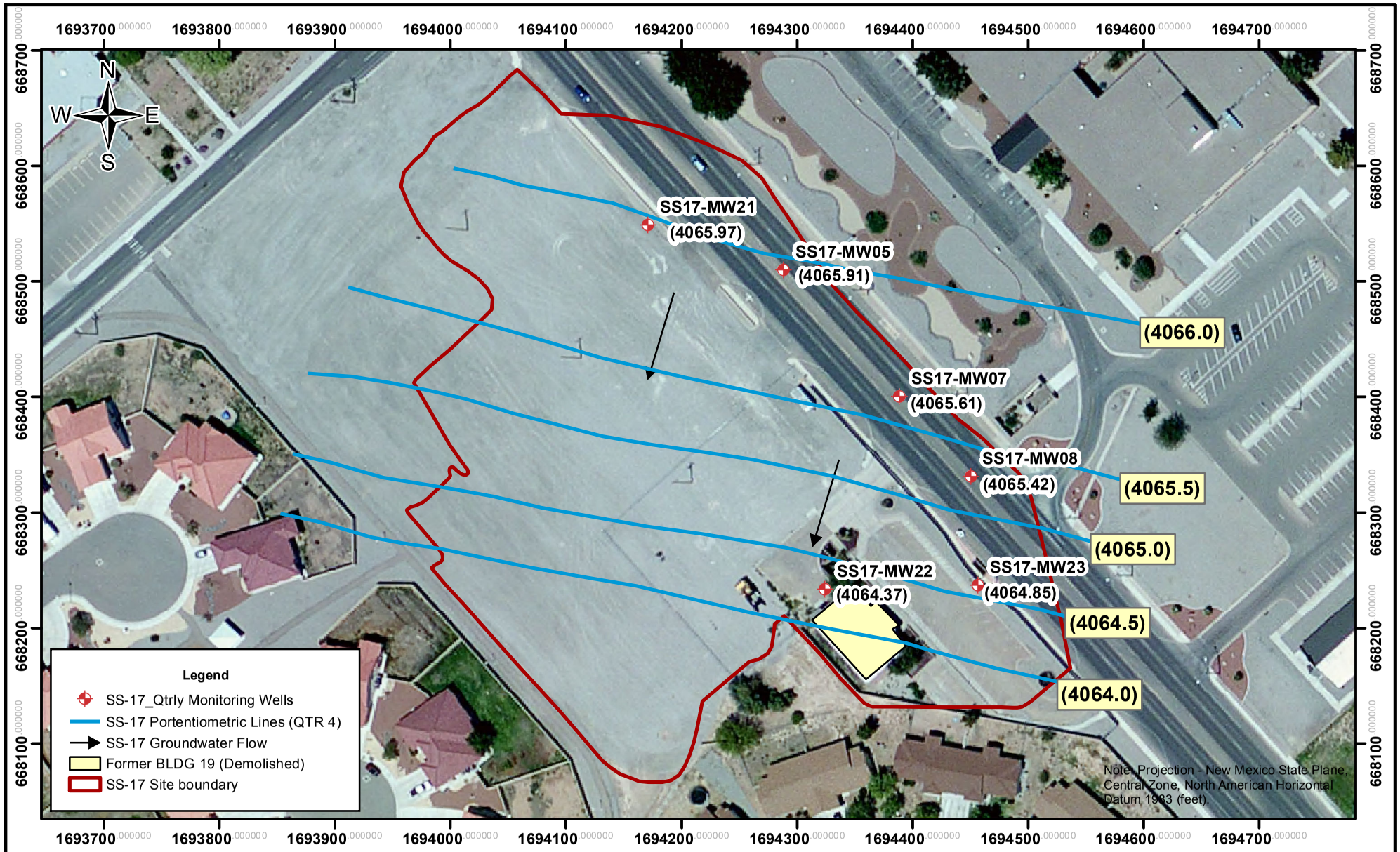
NATIONVIEW

SS-17
Groundwater Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	10/15/14	FRE
			DRAWING NO: Figure 4-2C

SS-17
Long Term Monitoring Report
Quarter 3, Winter 2014
Holloman Air Fiorce Base, New Mexico

Figure 4-2C



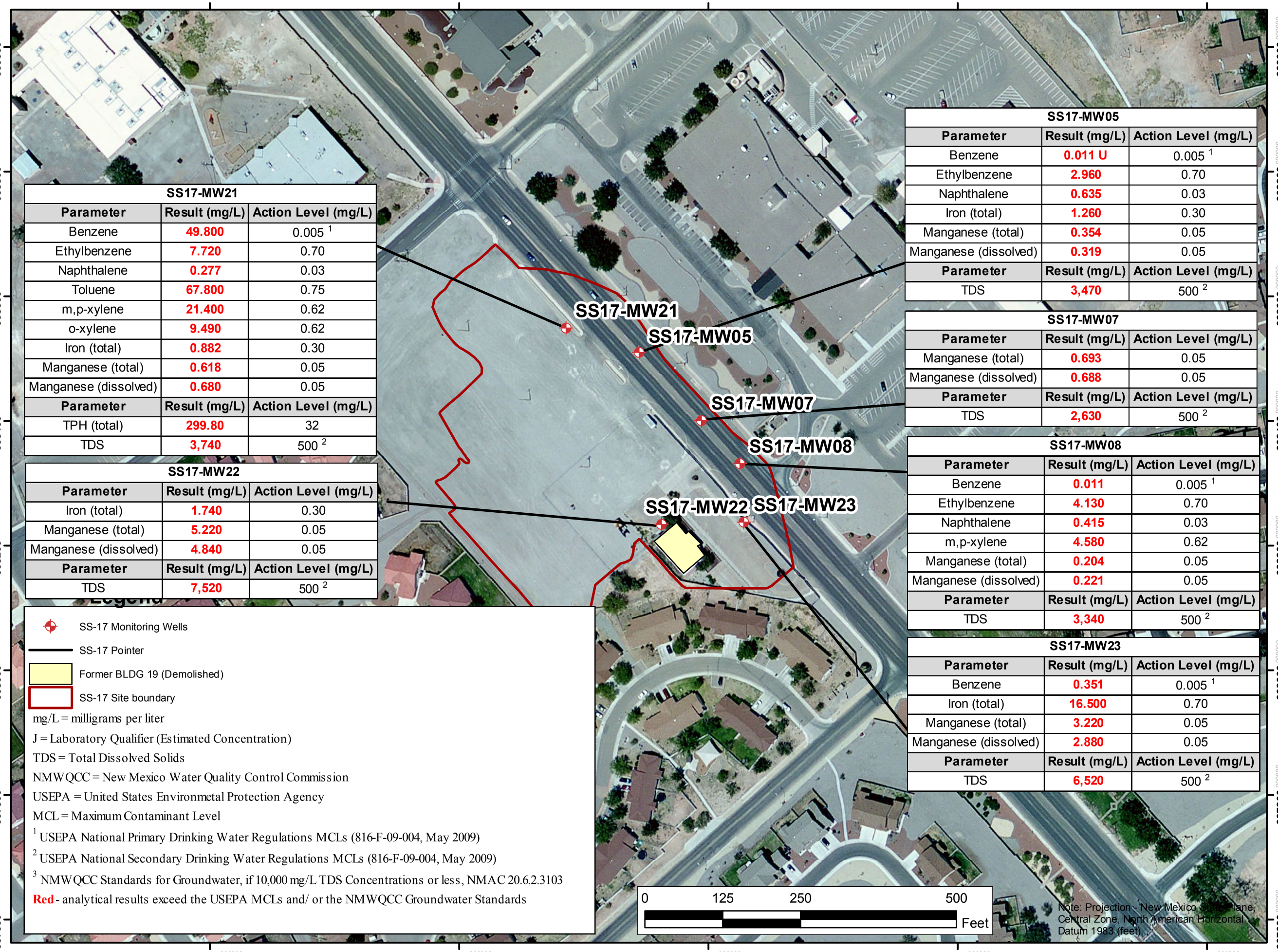
NATIONVIEW

SS-17
Groundwater Potentiometric Map

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	10/15/14	FRE
			DRAWING NO: Figure 4-2D

SS-17
Long Term Monitoring Report
Quarter 4, Spring 2014
Holloman Air Fiorce Base, New Mexico

Figure 4-2D



SS17-MW21

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	49.800	0.005 [1]
Ethylbenzene	7.720	0.70
Naphthalene	0.277	0.03
Toluene	67.800	0.75
m,p-xylene	21.400	0.62
o-xylene	9.490	0.62
Iron (total)	0.882	0.30
Manganese (total)	0.618	0.05
Manganese (dissolved)	0.680	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TPH (total)	299.80	32
TDS	3,740	500 [2]

SS17-MW22

Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	1.740	0.30
Manganese (total)	5.220	0.05
Manganese (dissolved)	4.840	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	7,520	500 [2]

SS17-MW05

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.011 U	0.005 [1]
Ethylbenzene	2.960	0.70
Naphthalene	0.635	0.03
Iron (total)	1.260	0.30
Manganese (total)	0.354	0.05
Manganese (dissolved)	0.319	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,470	500 [2]

SS17-MW07

Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.693	0.05
Manganese (dissolved)	0.688	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	2,630	500 [2]

SS17-MW08

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.011	0.005 [1]
Ethylbenzene	4.130	0.70
Naphthalene	0.415	0.03
m,p-xylene	4.580	0.62
Manganese (total)	0.204	0.05
Manganese (dissolved)	0.221	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,340	500 [2]

SS17-MW23

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.351	0.005 [1]
Iron (total)	16.500	0.70
Manganese (total)	3.220	0.05
Manganese (dissolved)	2.880	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	6,520	500 [2]

SS-17
Long Term Monitoring
Quarter 1, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-1A

SS-17
Groundwater Analytical Results
Above Action Levels (August 2013)

DRAWN BY: FRE

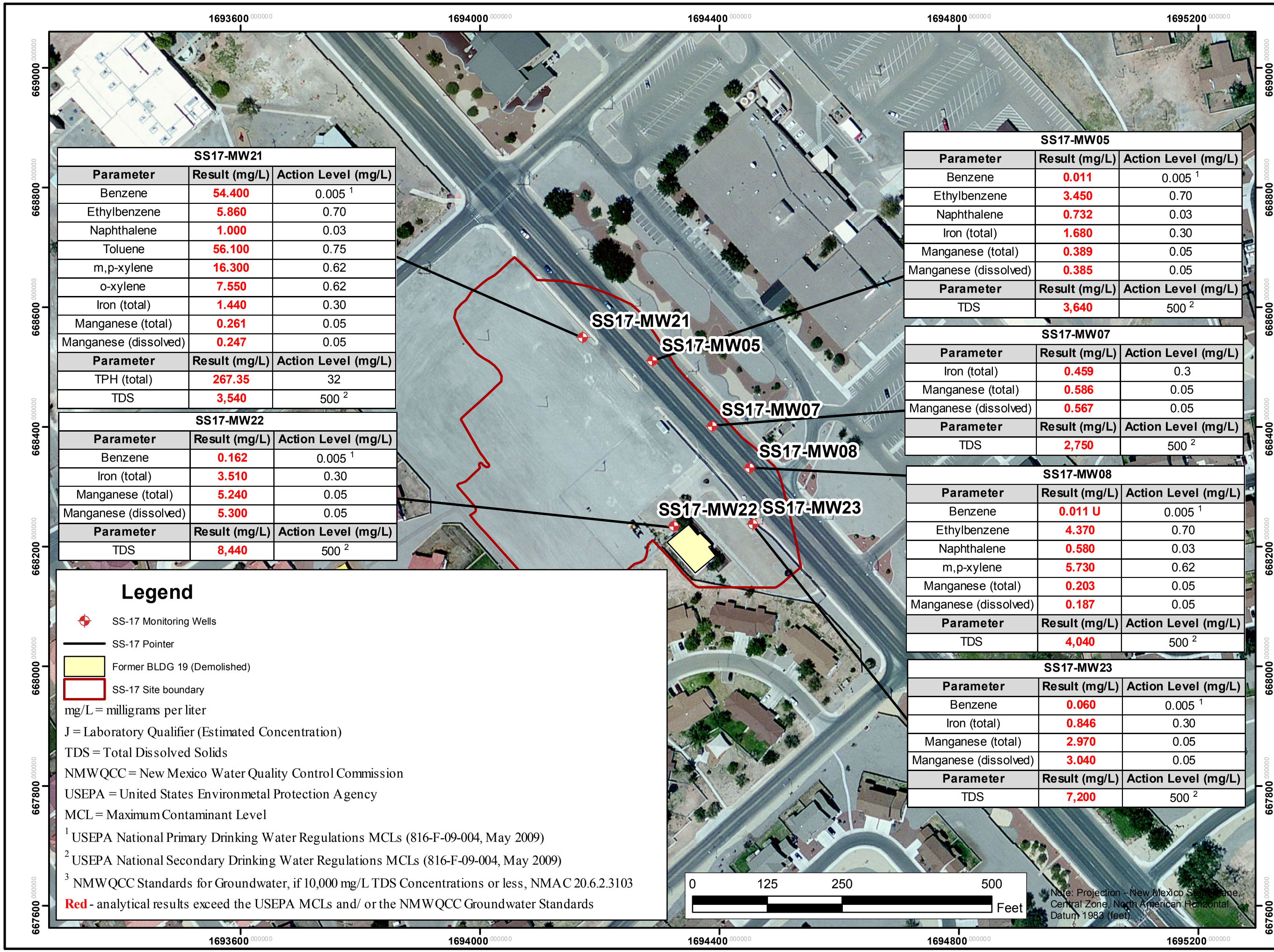
DRAWING NO.: Figure 5-1A

DATE: 10/15/14

SCALE: 1" = 250'

PROJECT NO: 11-0019

NATIONVIEW



SS17-MW21		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	54.400	0.005 [1]
Ethylbenzene	5.860	0.70
Naphthalene	1.000	0.03
Toluene	56.100	0.75
m,p-xylene	16.300	0.62
o-xylene	7.550	0.62
Iron (total)	1.440	0.30
Manganese (total)	0.261	0.05
Manganese (dissolved)	0.247	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TPH (total)	267.35	32
TDS	3,540	500 [2]

SS17-MW22		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.162	0.005 [1]
Iron (total)	3.510	0.30
Manganese (total)	5.240	0.05
Manganese (dissolved)	5.300	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	8,440	500 [2]

SS17-MW05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.011	0.005 [1]
Ethylbenzene	3.450	0.70
Naphthalene	0.732	0.03
Iron (total)	1.680	0.30
Manganese (total)	0.389	0.05
Manganese (dissolved)	0.385	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,640	500 [2]

SS17-MW07		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (total)	0.459	0.3
Manganese (total)	0.586	0.05
Manganese (dissolved)	0.567	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	2,750	500 [2]

SS17-MW08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.011 U	0.005 [1]
Ethylbenzene	4.370	0.70
Naphthalene	0.580	0.03
m,p-xylene	5.730	0.62
Manganese (total)	0.203	0.05
Manganese (dissolved)	0.187	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	4,040	500 [2]

SS17-MW23		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.060	0.005 [1]
Iron (total)	0.846	0.30
Manganese (total)	2.970	0.05
Manganese (dissolved)	3.040	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	7,200	500 [2]

Legend

- SS-17 Monitoring Wells
- SS-17 Pointer
- Former BLDG 19 (Demolished)
- SS-17 Site boundary

mg/L = milligrams per liter

J = Laboratory Qualifier (Estimated Concentration)

TDS = Total Dissolved Solids

NMWQCC = New Mexico Water Quality Control Commission

USEPA = United States Environmetal Protection Agency

MCL = Maximum Contaminant Level

[1] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[2] USEPA National Secondary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentrations or less, NMAC 20.6.2.3103

Red - analytical results exceed the USEPA MCLs and/ or the NMWQCC Groundwater Standards

SS-17
Long Term Monitoring
Quarter 2, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-1B

SS-17
Groundwater Analytical Results
Above Action Levels (November 2013)

DRAWN BY: FRE

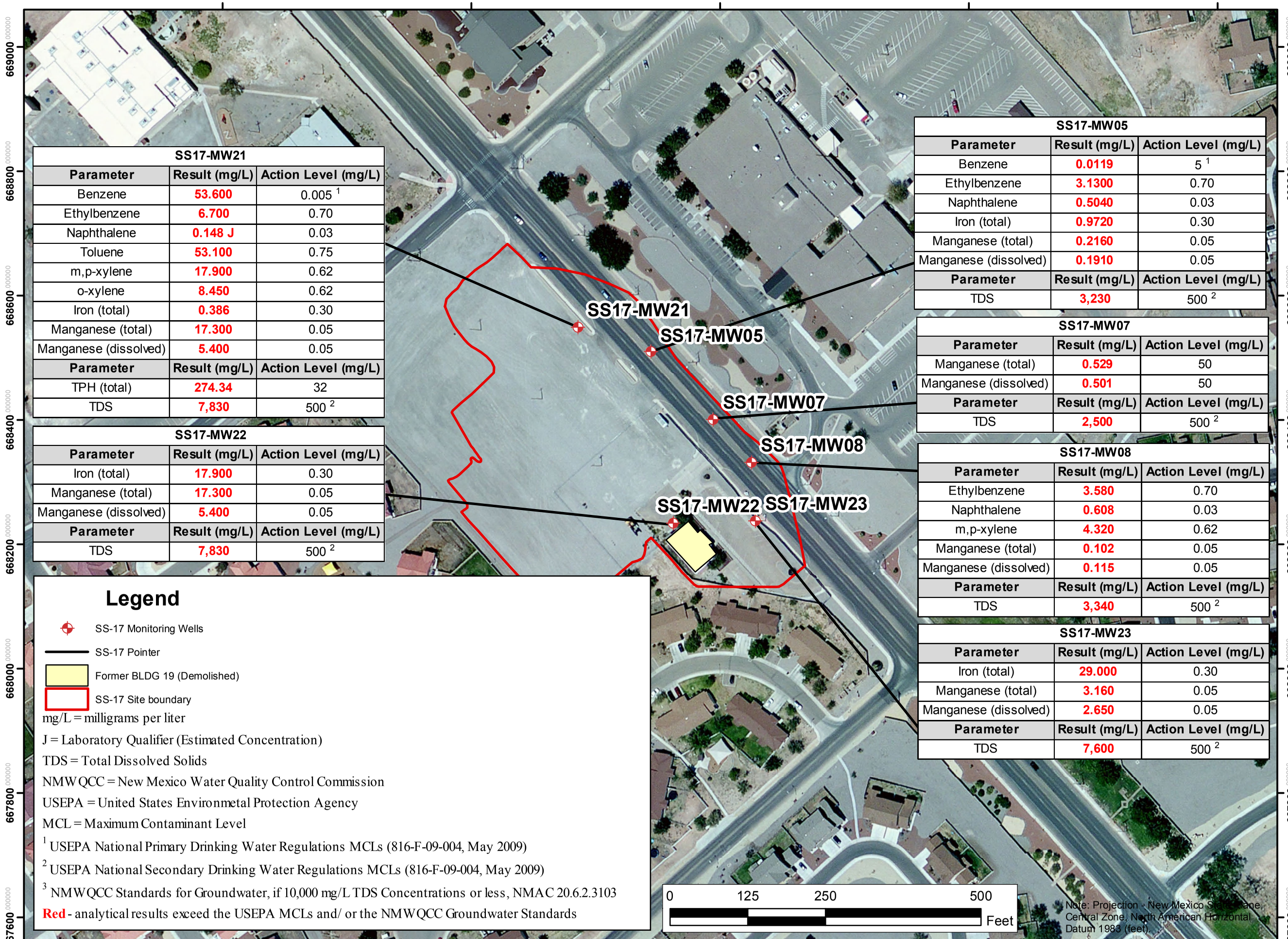
DRAWING NO.: Figure 5-1B

DATE: 10/15/14

SCALE: 1" = 250'

PROJECT NO: 11-0019

NATIONVIEW



SS17-MW21		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	53.600	0.005 [1]
Ethylbenzene	6.700	0.70
Naphthalene	0.148 J	0.03
Toluene	53.100	0.75
m,p-xylene	17.900	0.62
o-xylene	8.450	0.62
Iron (total)	0.386	0.30
Manganese (total)	17.300	0.05
Manganese (dissolved)	5.400	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TPH (total)	274.34	32
TDS	7,830	500 [2]

SS17-MW22		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (total)	17.900	0.30
Manganese (total)	17.300	0.05
Manganese (dissolved)	5.400	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	7,830	500 [2]

SS17-MW05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.0119	5 [1]
Ethylbenzene	3.1300	0.70
Naphthalene	0.5040	0.03
Iron (total)	0.9720	0.30
Manganese (total)	0.2160	0.05
Manganese (dissolved)	0.1910	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,230	500 [2]

SS17-MW07		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Manganese (total)	0.529	50
Manganese (dissolved)	0.501	50
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	2,500	500 [2]

SS17-MW08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Ethylbenzene	3.580	0.70
Naphthalene	0.608	0.03
m,p-xylene	4.320	0.62
Manganese (total)	0.102	0.05
Manganese (dissolved)	0.115	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,340	500 [2]

SS17-MW23		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (total)	29.000	0.30
Manganese (total)	3.160	0.05
Manganese (dissolved)	2.650	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	7,600	500 [2]

Legend

- SS-17 Monitoring Wells
- SS-17 Pointer
- Former BLDG 19 (Demolished)
- SS-17 Site boundary

mg/L = milligrams per liter

J = Laboratory Qualifier (Estimated Concentration)

TDS = Total Dissolved Solids

NMWQCC = New Mexico Water Quality Control Commission

USEPA = United States Environmetal Protection Agency

MCL = Maximum Contaminant Level

[1] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[2] USEPA National Secondary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentrations or less, NMAC 20.6.2.3103

Red - analytical results exceed the USEPA MCLs and/ or the NMWQCC Groundwater Standards

SS-17
Long Term Monitoring
Quarter 3, Winter 2014
Holloman Air Force Base, New Mexico

Figure 5-1C

SS-17
Groundwater Analytical Results
Above Action Levels (February 2014)

DRAWN BY: FRE

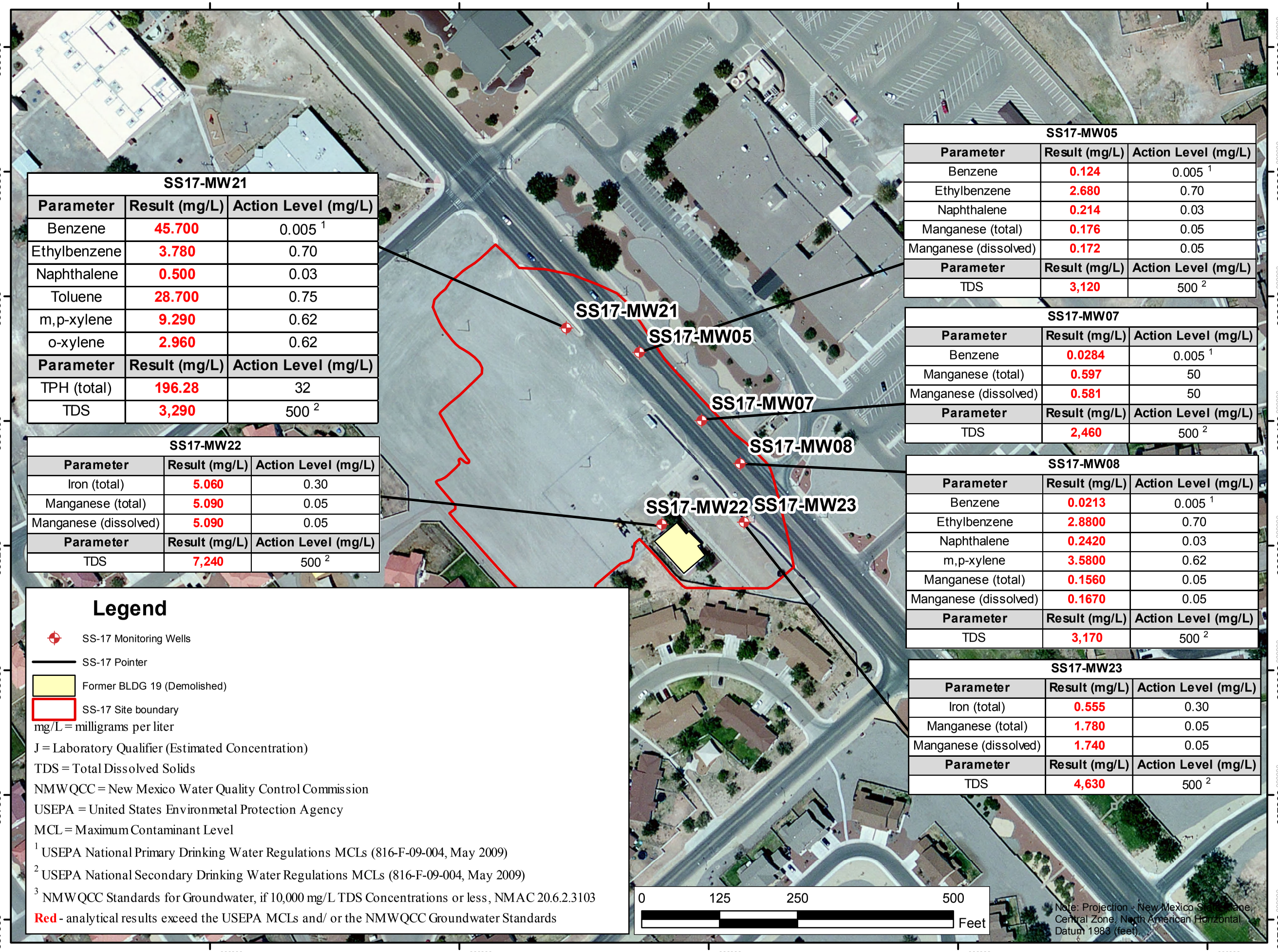
DRAWING NO.: Figure 5-1C

DATE: 10/15/14

SCALE: 1" = 250'

PROJECT NO: 11-0019

NATIONVIEW



SS17-MW21		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	45.700	0.005 [1]
Ethylbenzene	3.780	0.70
Naphthalene	0.500	0.03
Toluene	28.700	0.75
m,p-xylene	9.290	0.62
o-xylene	2.960	0.62
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TPH (total)	196.28	32
TDS	3,290	500 [2]

SS17-MW22		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (total)	5.060	0.30
Manganese (total)	5.090	0.05
Manganese (dissolved)	5.090	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	7,240	500 [2]

SS17-MW05		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.124	0.005 [1]
Ethylbenzene	2.680	0.70
Naphthalene	0.214	0.03
Manganese (total)	0.176	0.05
Manganese (dissolved)	0.172	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,120	500 [2]

SS17-MW07		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.0284	0.005 [1]
Manganese (total)	0.597	50
Manganese (dissolved)	0.581	50
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	2,460	500 [2]

SS17-MW08		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Benzene	0.0213	0.005 [1]
Ethylbenzene	2.8800	0.70
Naphthalene	0.2420	0.03
m,p-xylene	3.5800	0.62
Manganese (total)	0.1560	0.05
Manganese (dissolved)	0.1670	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	3,170	500 [2]

SS17-MW23		
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
Iron (total)	0.555	0.30
Manganese (total)	1.780	0.05
Manganese (dissolved)	1.740	0.05
Parameter	**Result (mg/L)**	**Action Level (mg/L)**
TDS	4,630	500 [2]

Legend

- SS-17 Monitoring Wells
- SS-17 Pointer
- Former BLDG 19 (Demolished)
- SS-17 Site boundary

mg/L = milligrams per liter

J = Laboratory Qualifier (Estimated Concentration)

TDS = Total Dissolved Solids

NMWQCC = New Mexico Water Quality Control Commission

USEPA = United States Environmetal Protection Agency

MCL = Maximum Contaminant Level

[1] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[2] USEPA National Secondary Drinking Water Regulations MCLs (816-F-09-004, May 2009)

[3] NMWQCC Standards for Groundwater, if 10,000 mg/L TDS Concentrations or less, NMAC 20.6.2.3103

Red - analytical results exceed the USEPA MCLs and/ or the NMWQCC Groundwater Standards

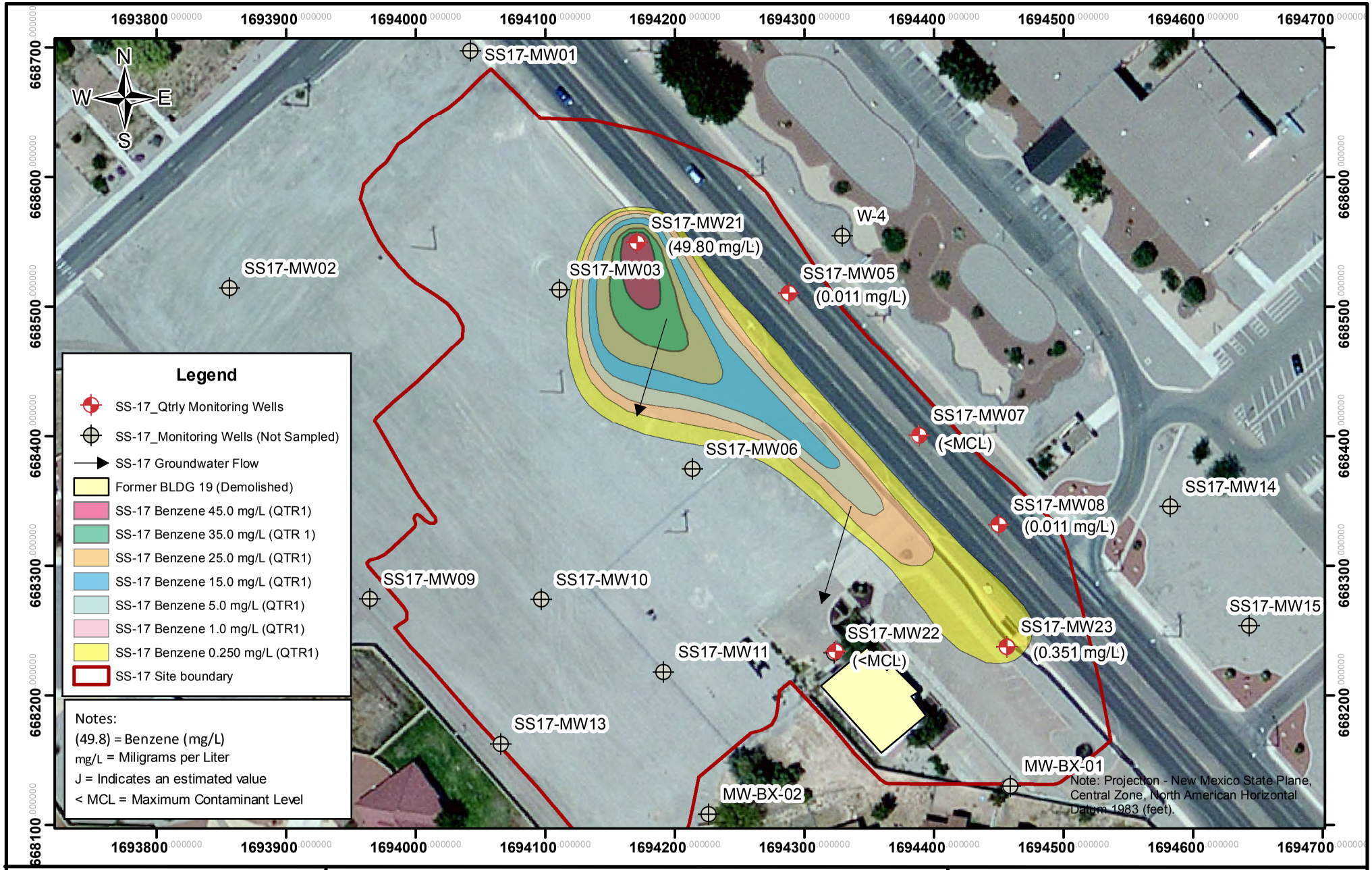
SS-17
Long Term Monitoring
Quarter 4, Spring 2014
Holloman Air Force Base, New Mexico

Figure 5-1D

SS-17
Groundwater Analytical Results
Above Action Levels (May 2014)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-1D
DATE:	10/15/14
SCALE:	1" = 250'
PROJECT NO:	11-0019

NATIONVIEW



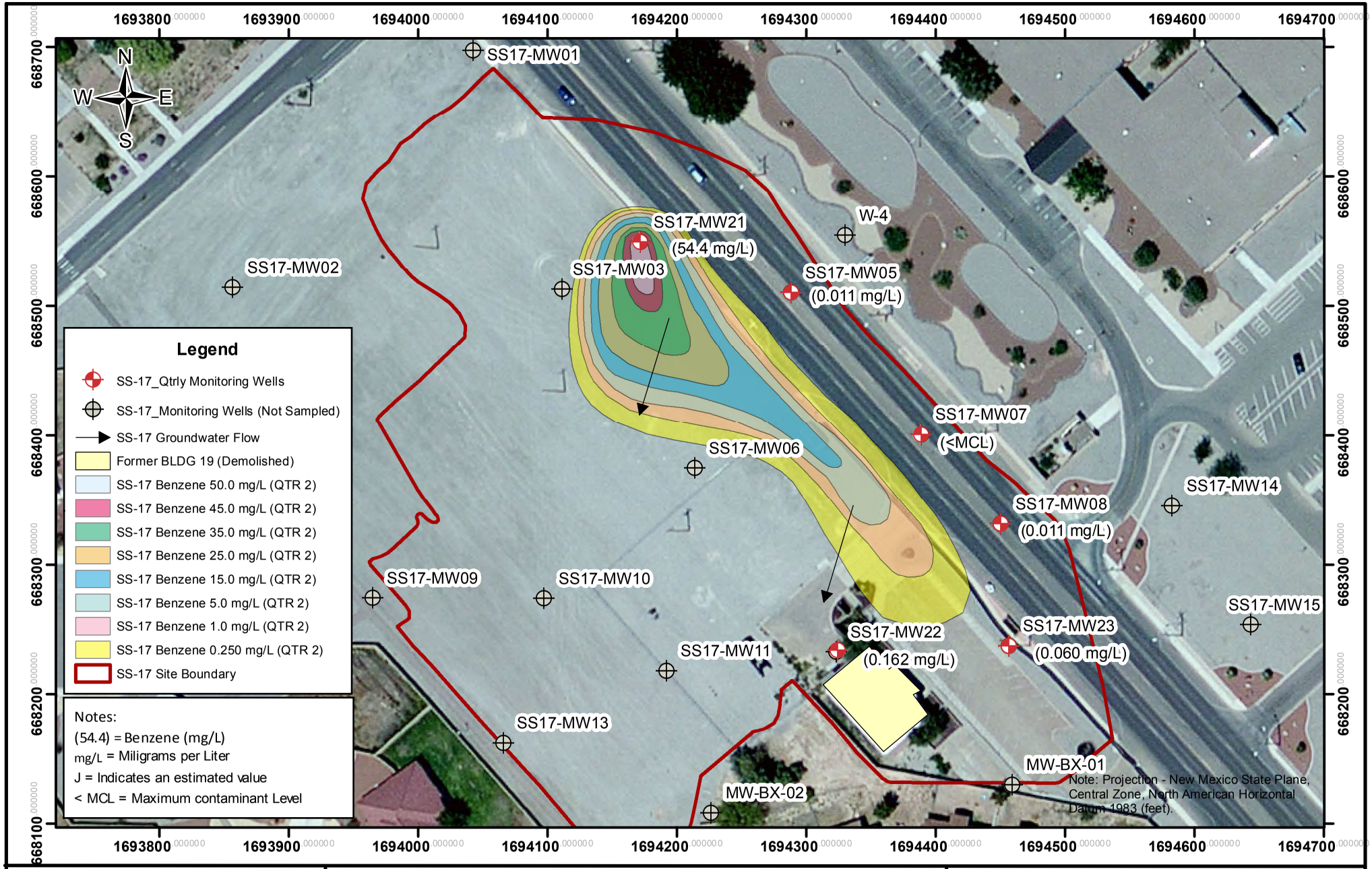
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene
Above Action Levels (August 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-2A

SS-17
Long Term Monitoring Report
Quarter 1, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-2A



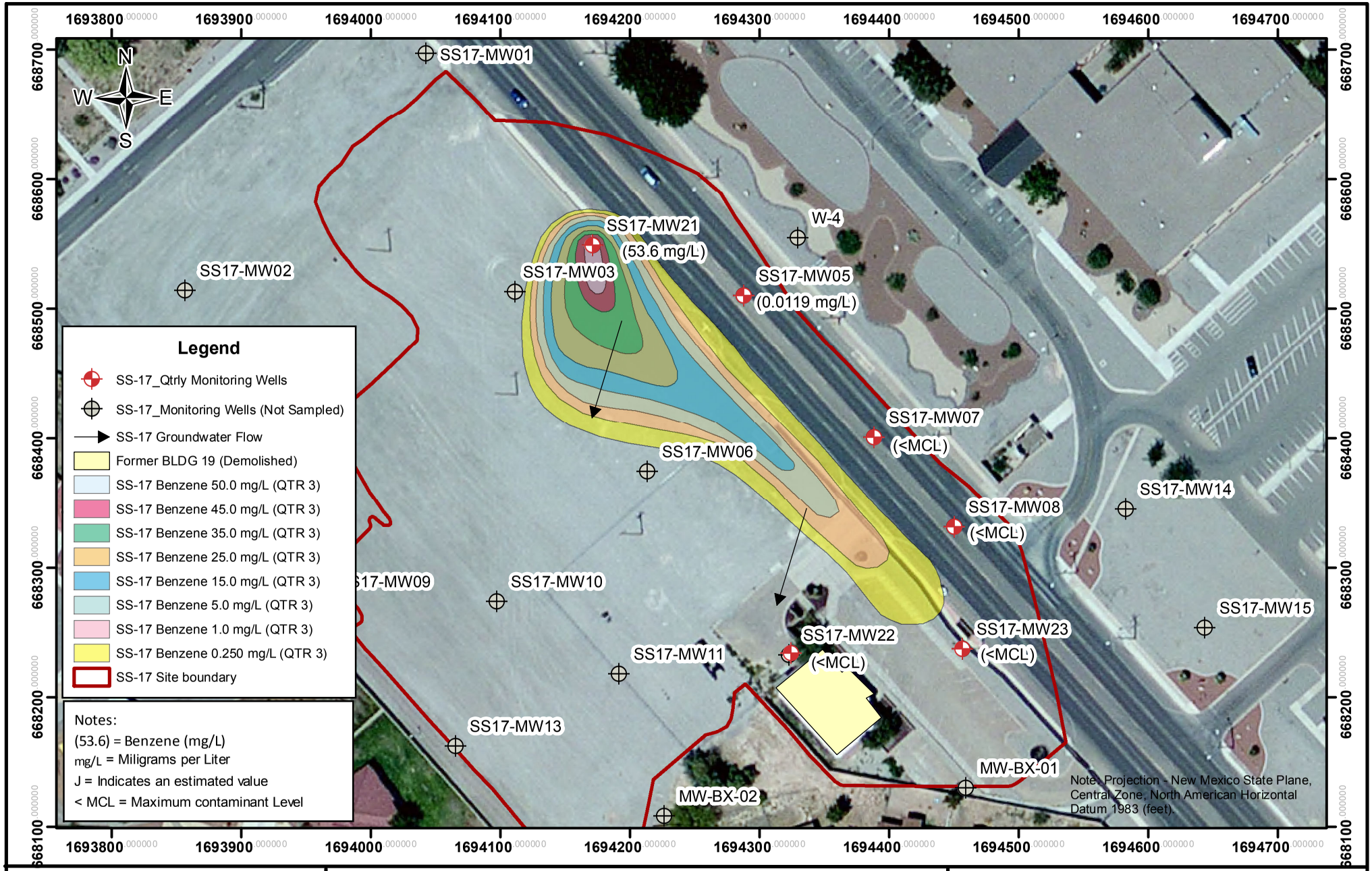
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene
Above Action Levels (November 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-2B

SS-17
Long Term Monitoring Report
Quarter 2, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-2B



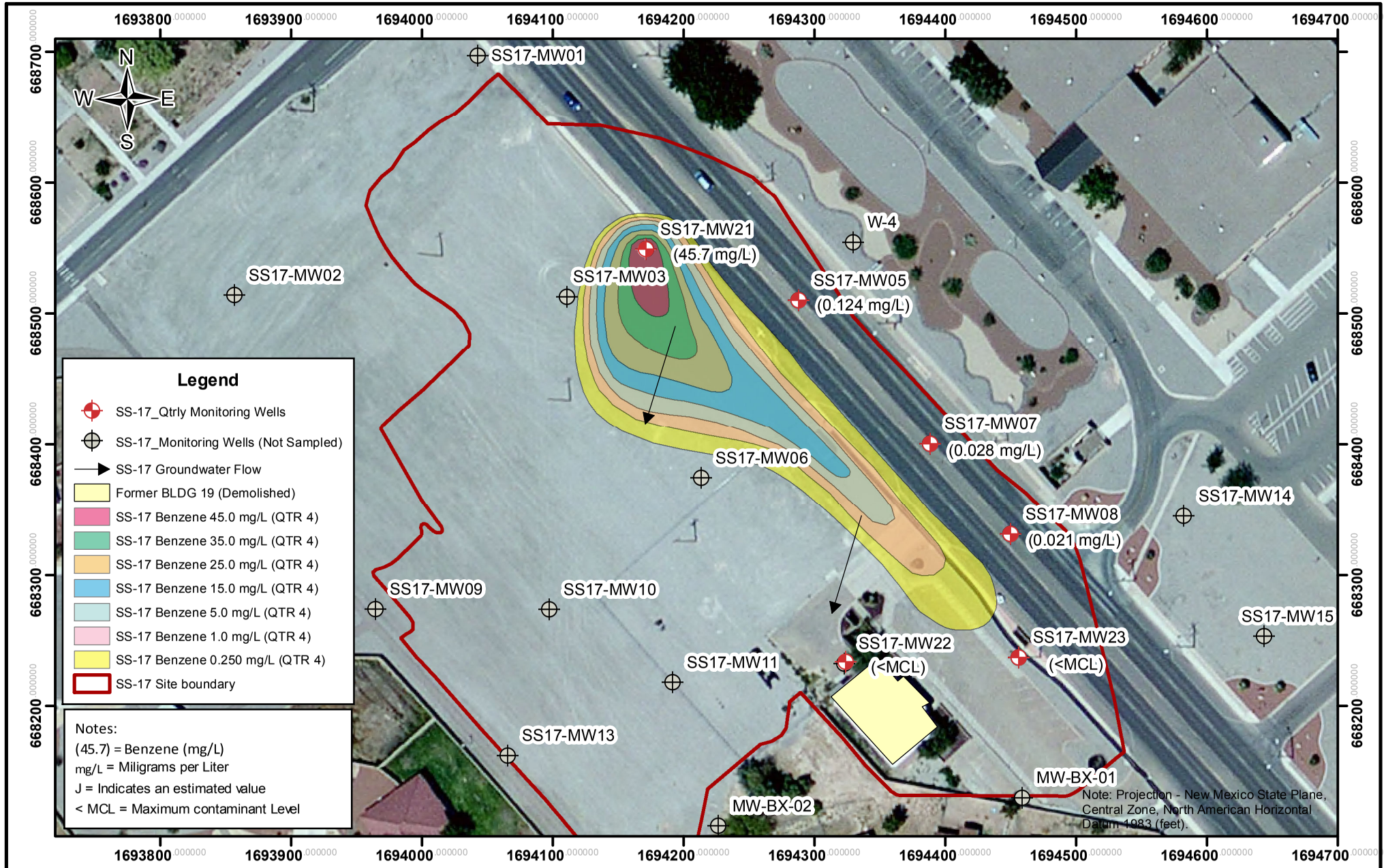
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene
Above Action Levels (February 2014)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-2C

SS-17
Long Term Monitoring Report
Quarter 3, Winter 2014
Holloman Air Force Base, New Mexico

Figure 5-2C



NATIONVIEW

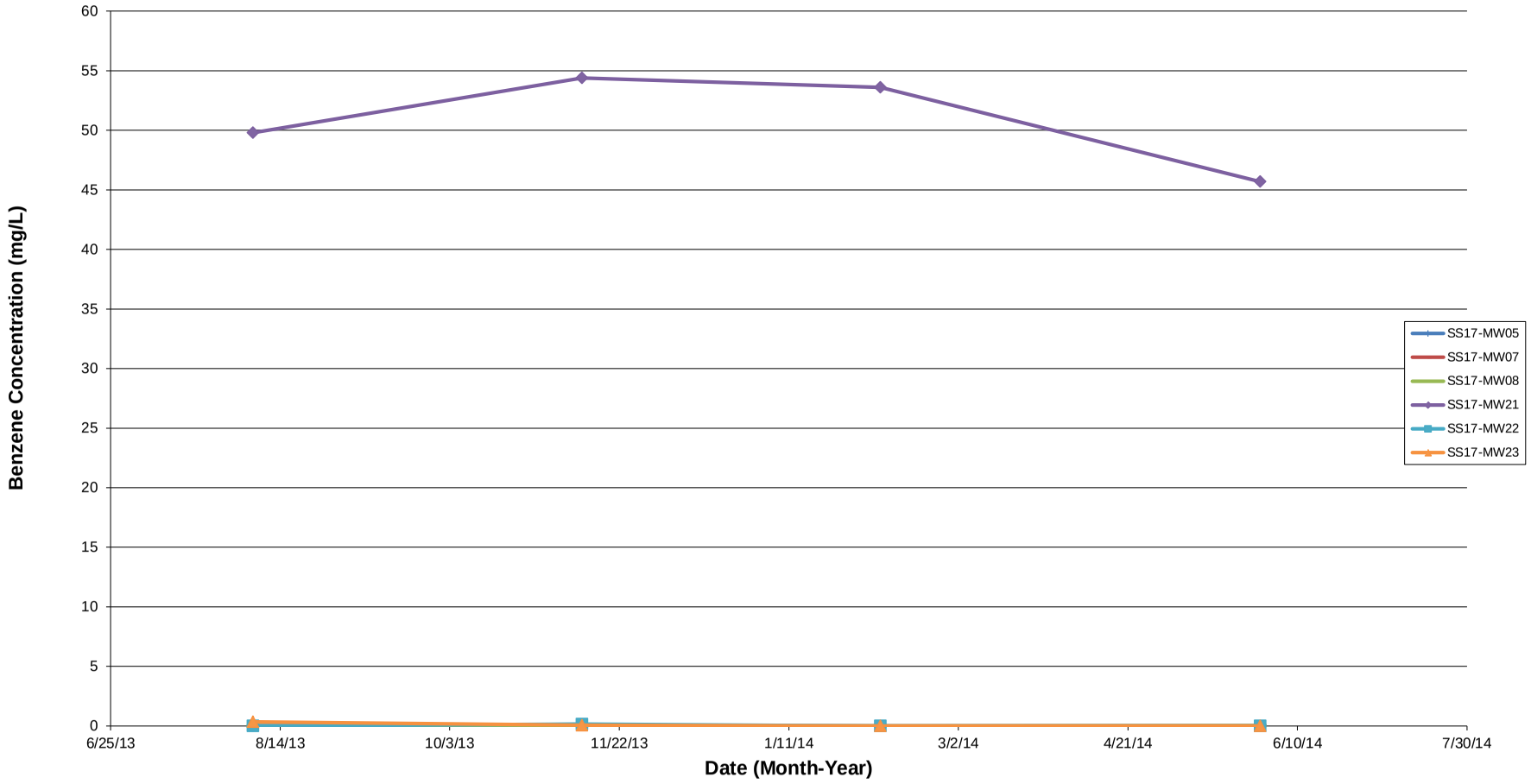
Site SS-17
Groundwater Analytical Results - Benzene
Above Action Levels (May 2014)

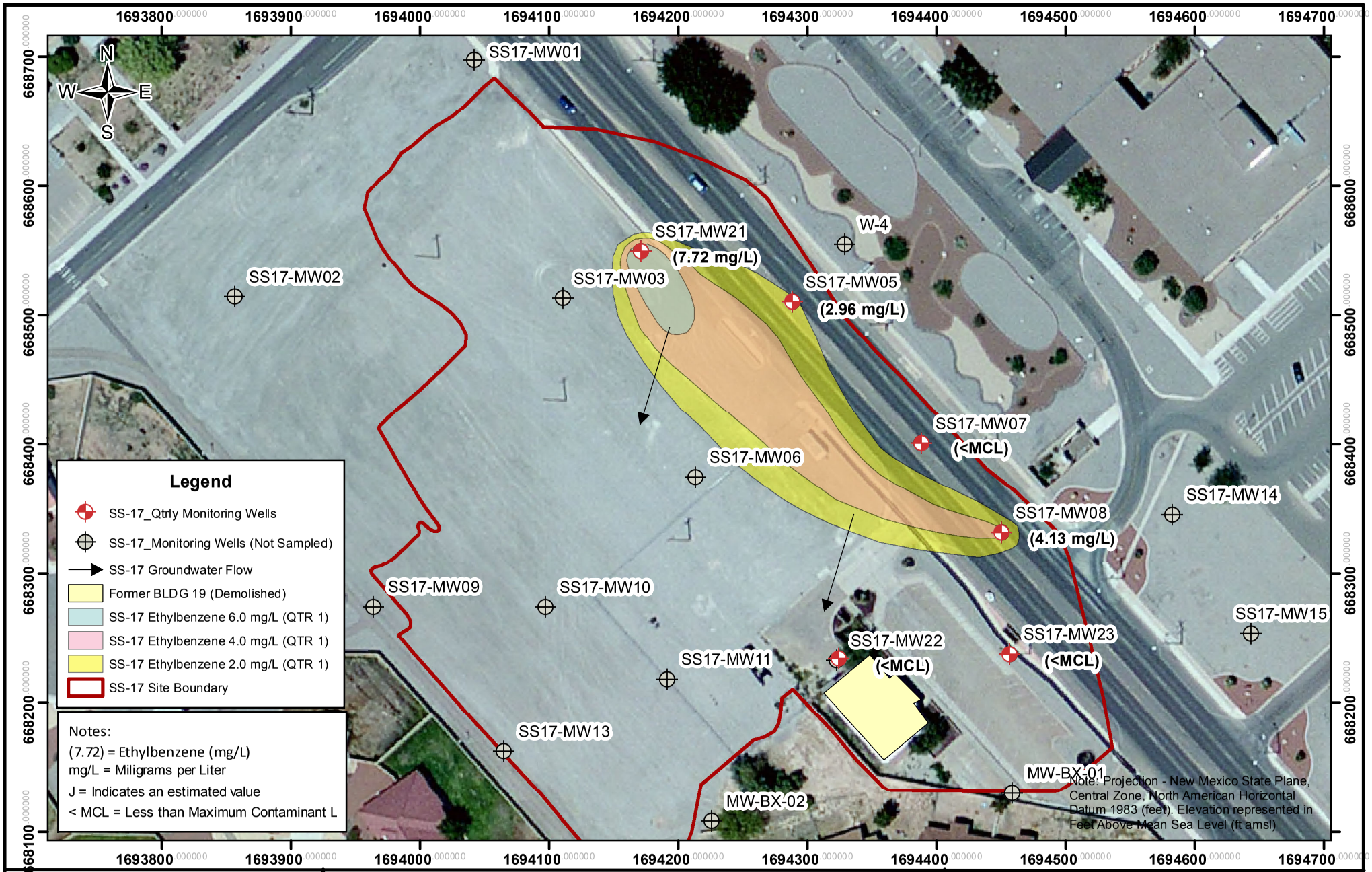
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-2D

SS-17
Long Term Monitoring Report
Quarter 4, Spring 2014
Holloman Air Force Base, New Mexico

Figure 5-2D

Figure 5-2E
Benzene Concentration Trends in SS-17 Monitoring Wells
Holloman AFB, New Mexico
NationView Project No: 11-0019





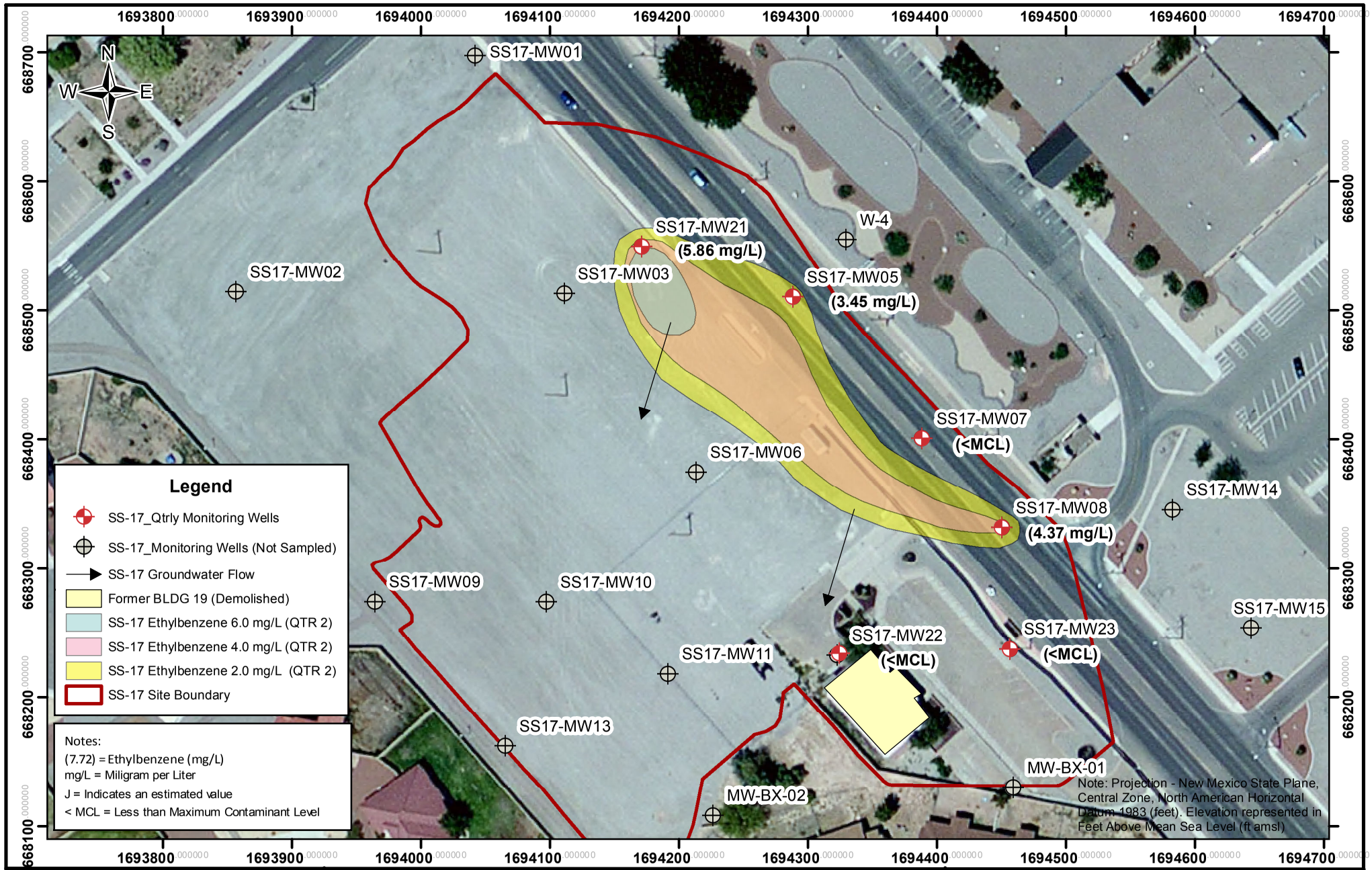
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Ethylbenzene
Above Action Levels (August 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-3A

SS-17
Long Term Monitoring
Quarter 1, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-3A



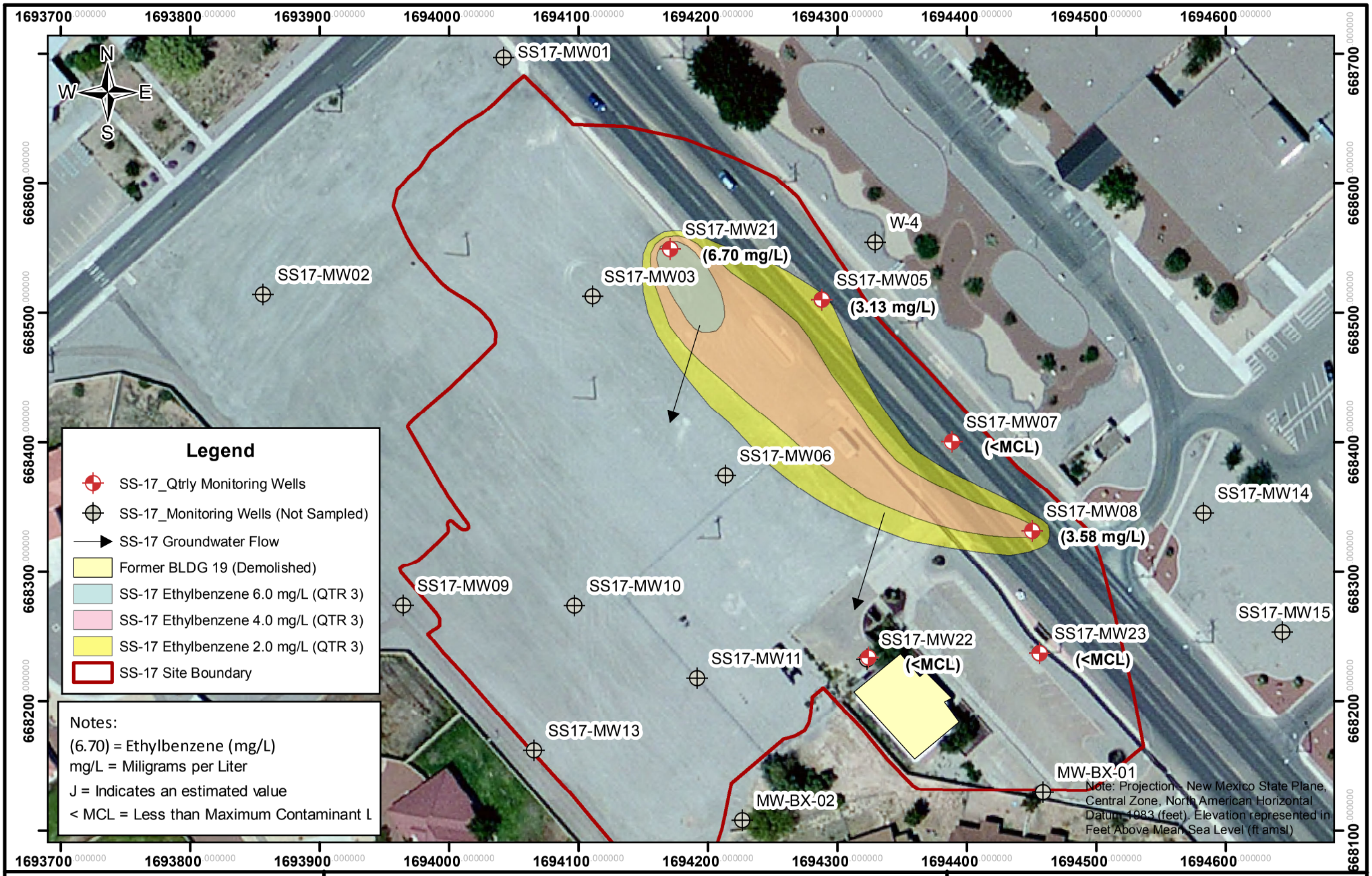
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Ethylbenzene
Above Action Levels (November 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-3B

SS-17
Long Term Monitoring
Quarter 2, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-3B



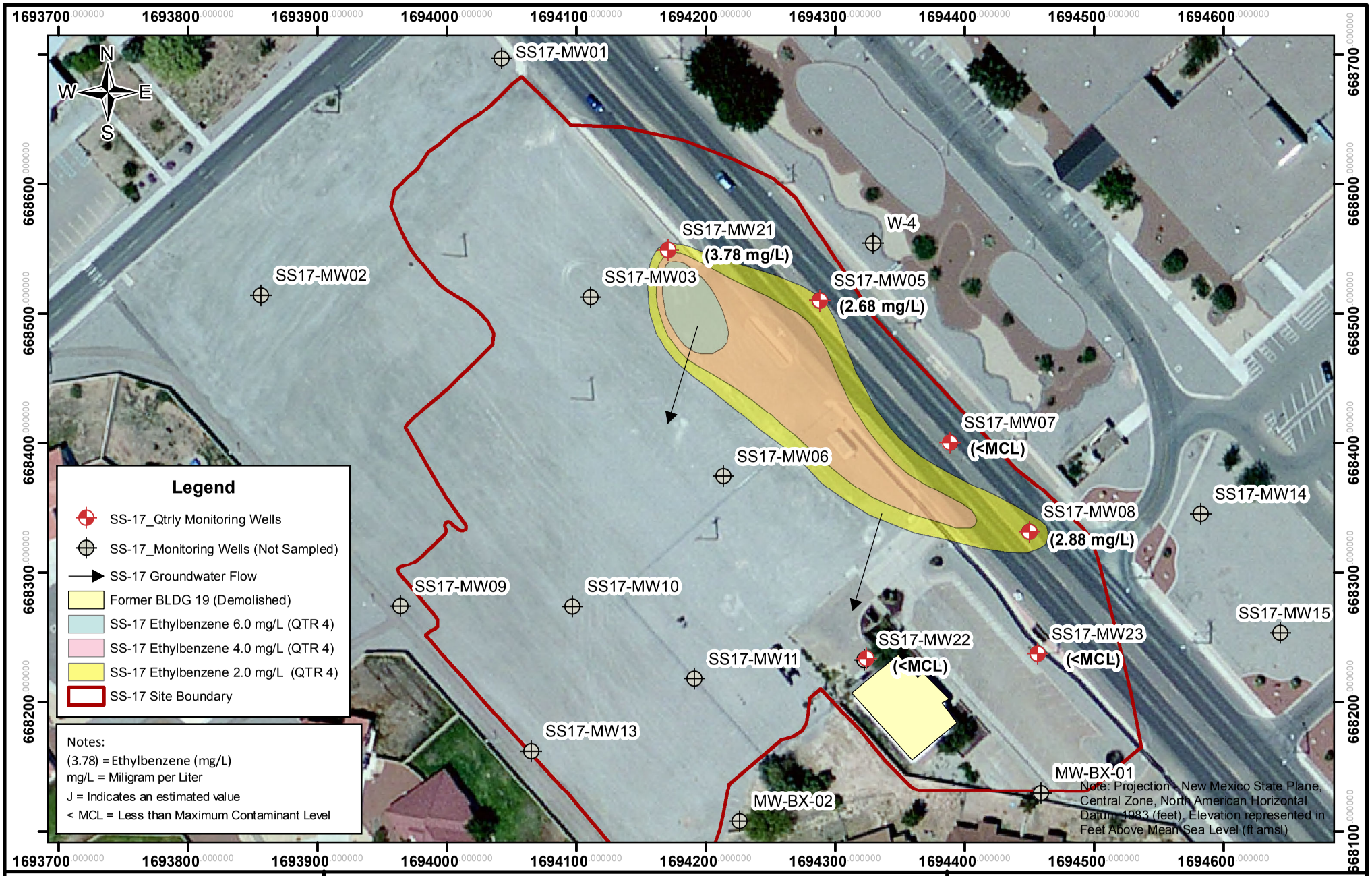
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Ethylbenzene
Above Action Levels (February 2014)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-3C

SS-17
Long Term Monitoring
Quarter 3, Winter 2014
Holloman Air Force Base, New Mexico

Figure 5-3C



NATIONVIEW

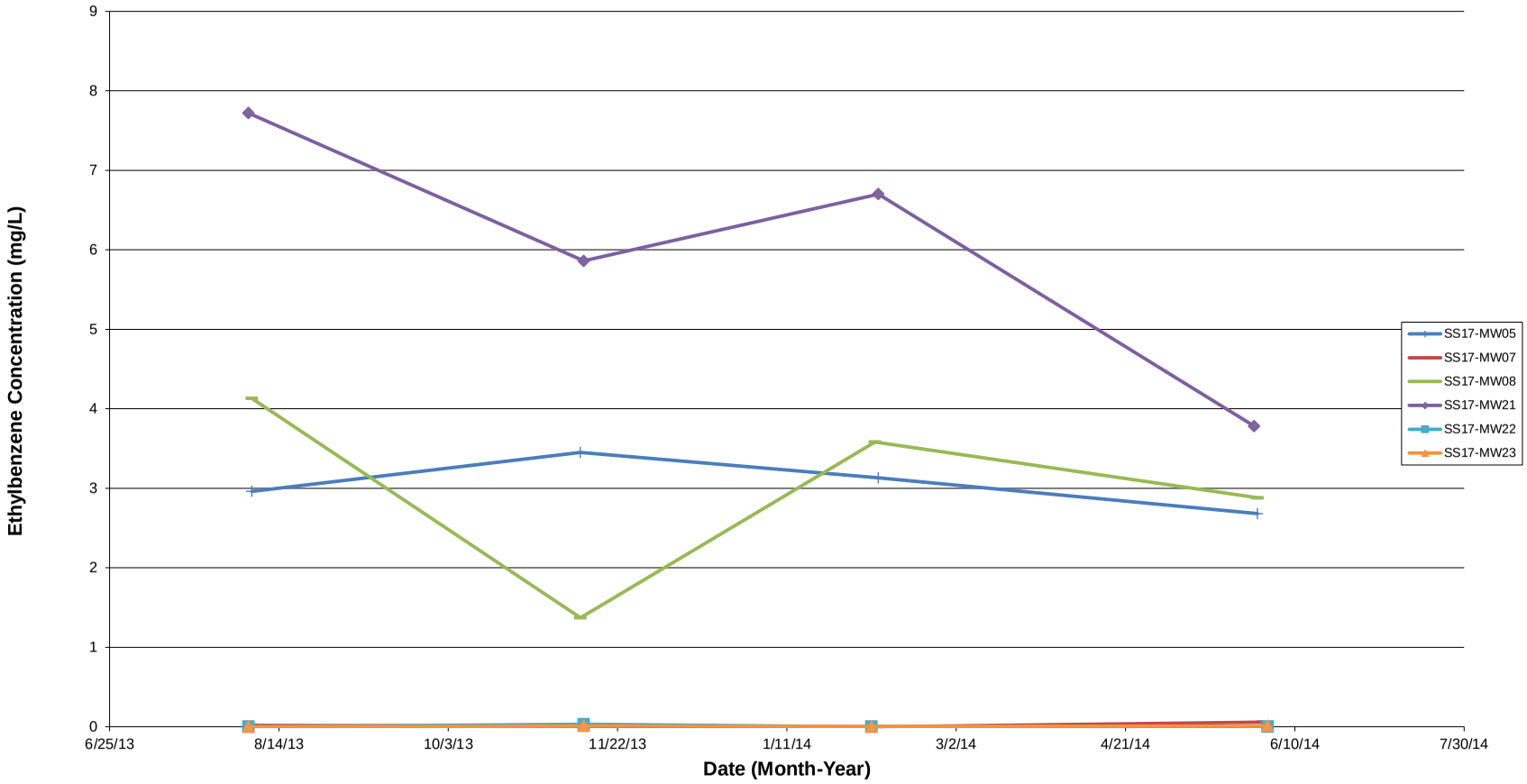
Site SS-17
Groundwater Analytical Results - Ethylbenzene
Above Action Levels (May 2014)

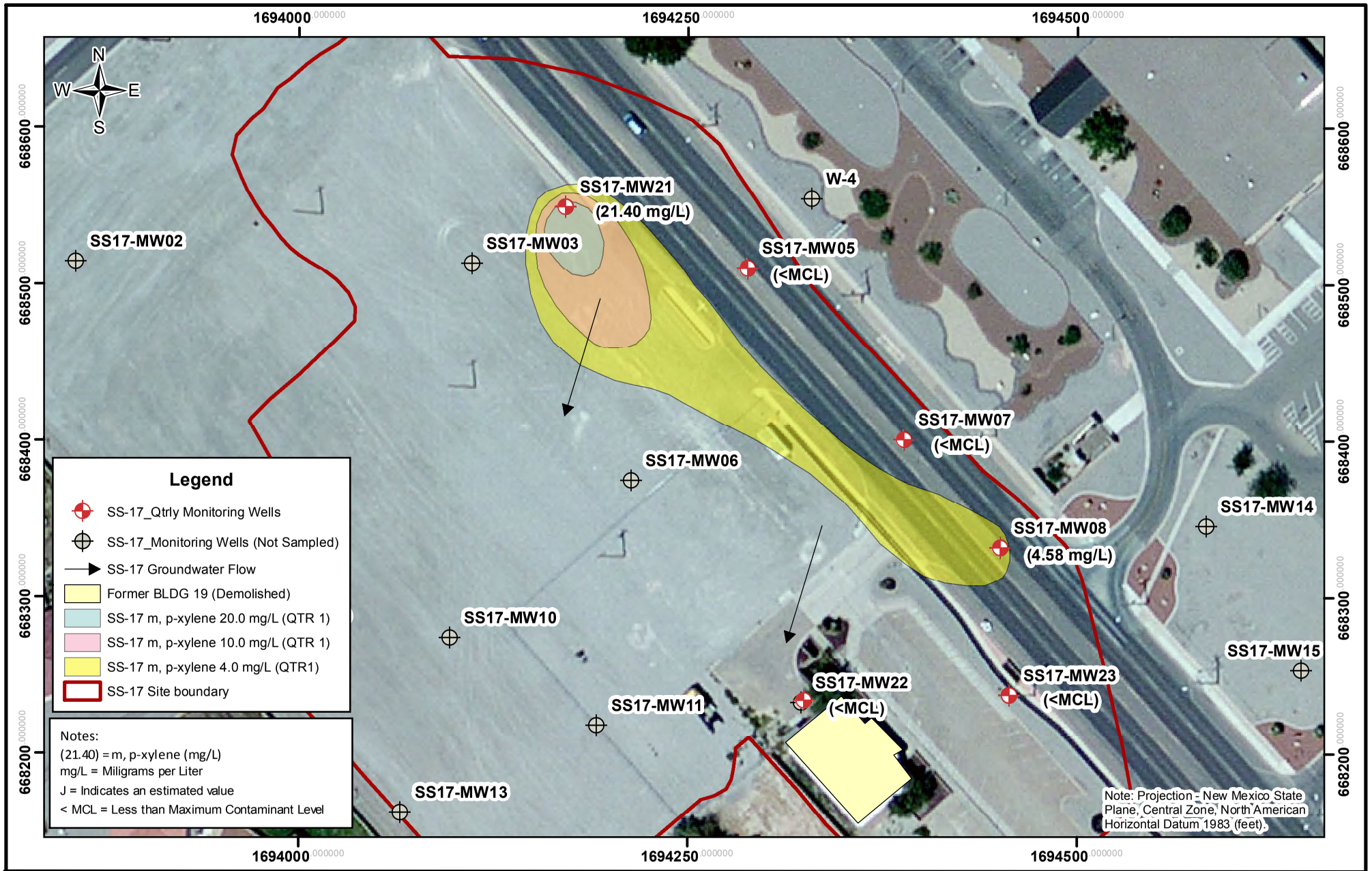
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-3D

SS-17
Long Term Monitoring
Quarter 4, Spring 2014
Holloman Air Force Base, New Mexico

Figure 5-3D

Figure 5-3E
Ethylbenzene Concentration Trends in SS-17 Monitoring Wells
Holloman AFB, New Mexico
NationView Project No: 11-0019





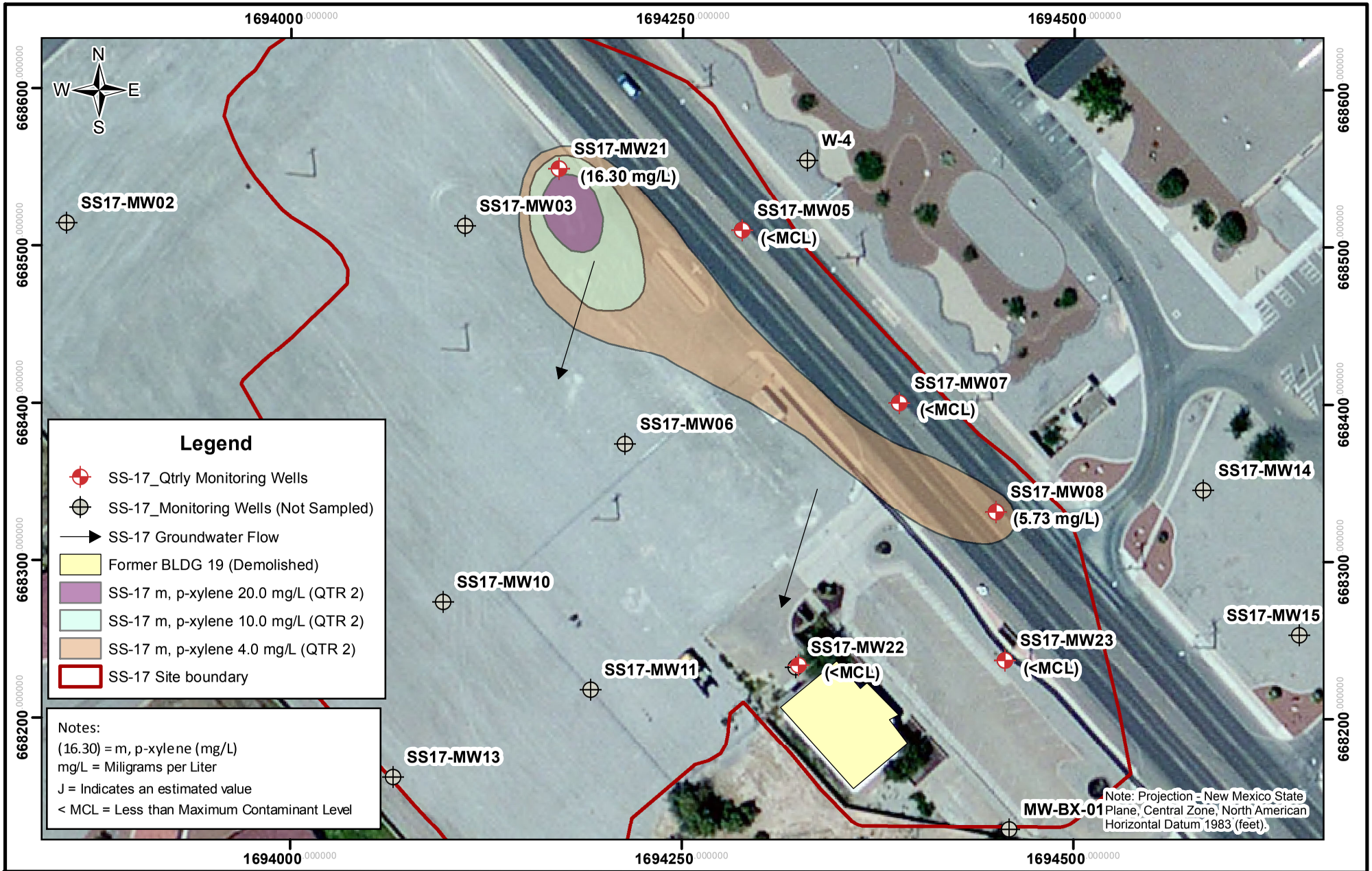
NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene
Above Action Levels (August 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-4A

SS-17
Lomg Term Monitoring
Quarter 1, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-4A



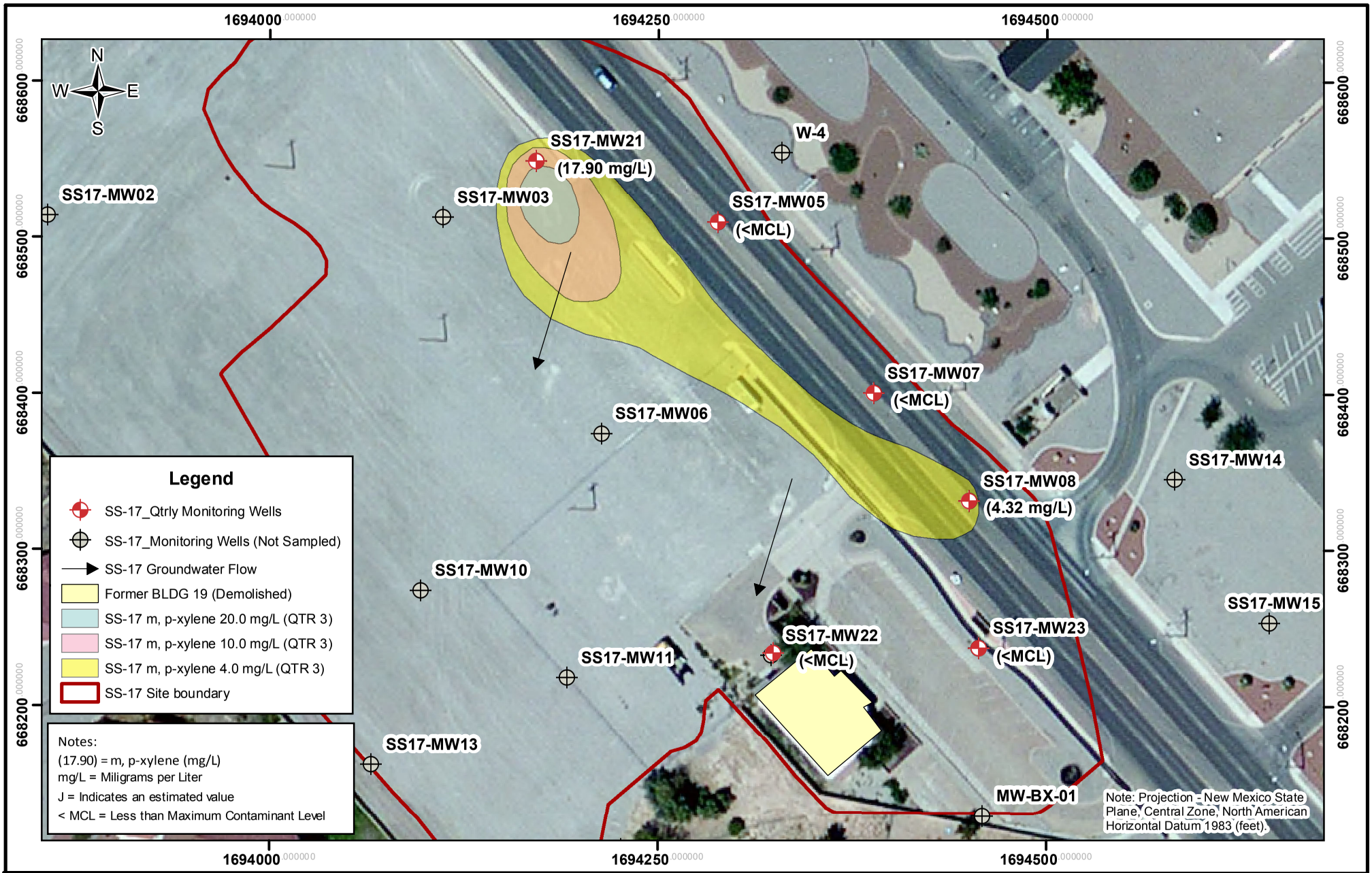
NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene
Above Action Levels (November 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-4B

SS-17
Lomg Term Monitoring
Quarter 2, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-4B



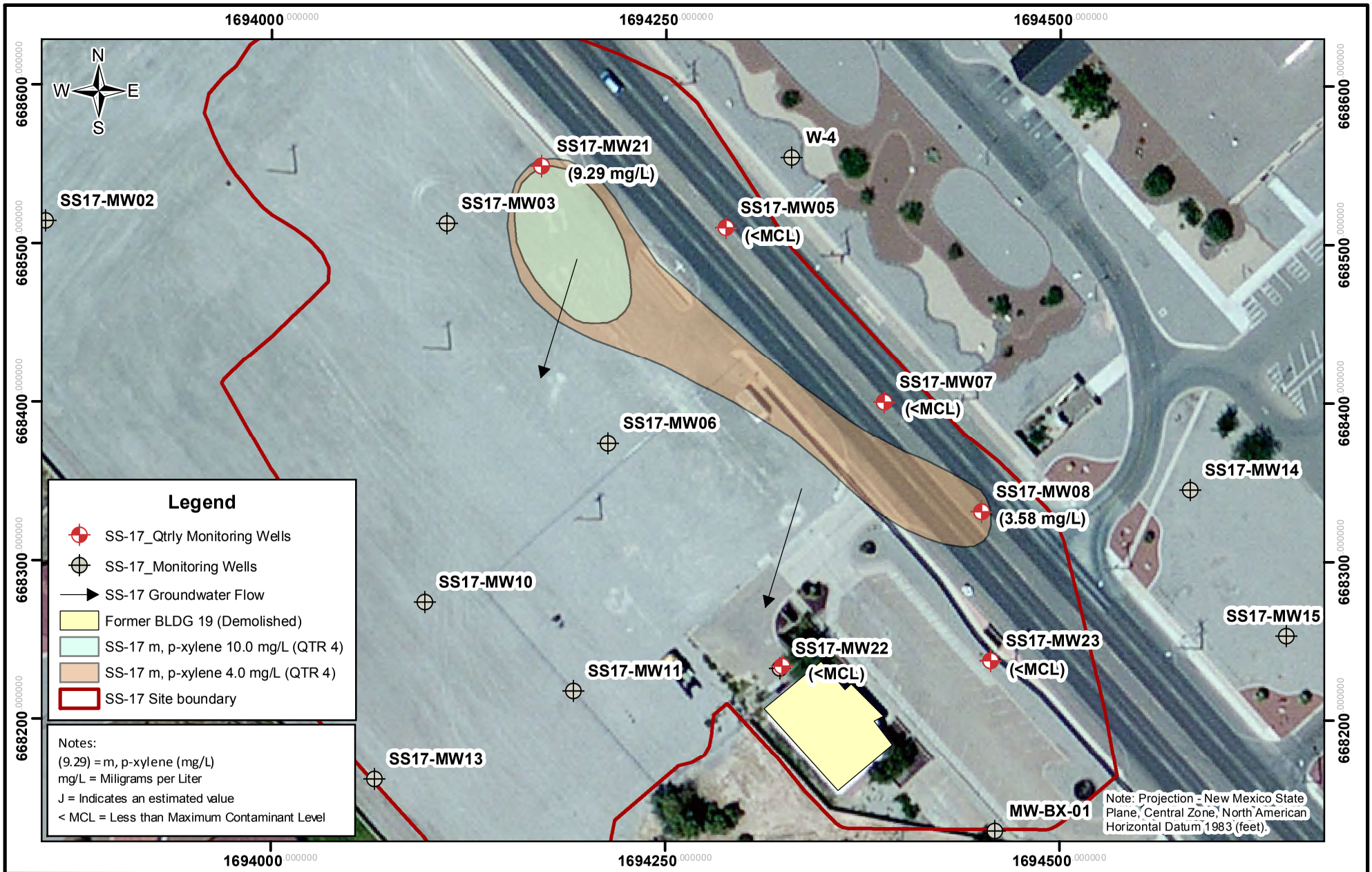
NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene
Above Action Levels (February 2014)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-4C

SS-17
Lomg Term Monitoring
Quarter 3, Winter 2014
Holloman Air Force Base, New Mexico

Figure 5-4C



NATIONVIEW

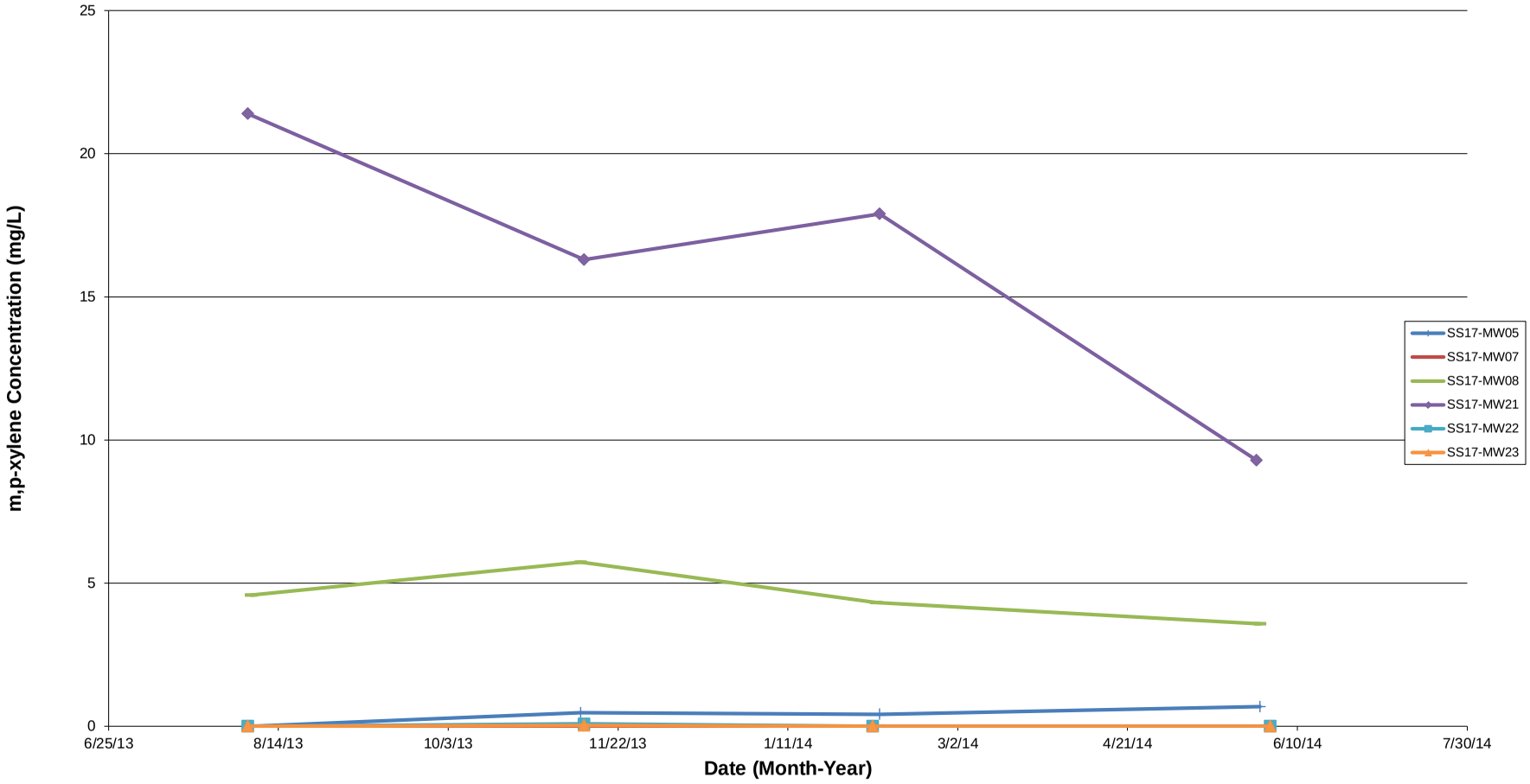
Site SS-17
Groundwater Analytical Results - m,p-xylene
Above Action Levels (May 2014)

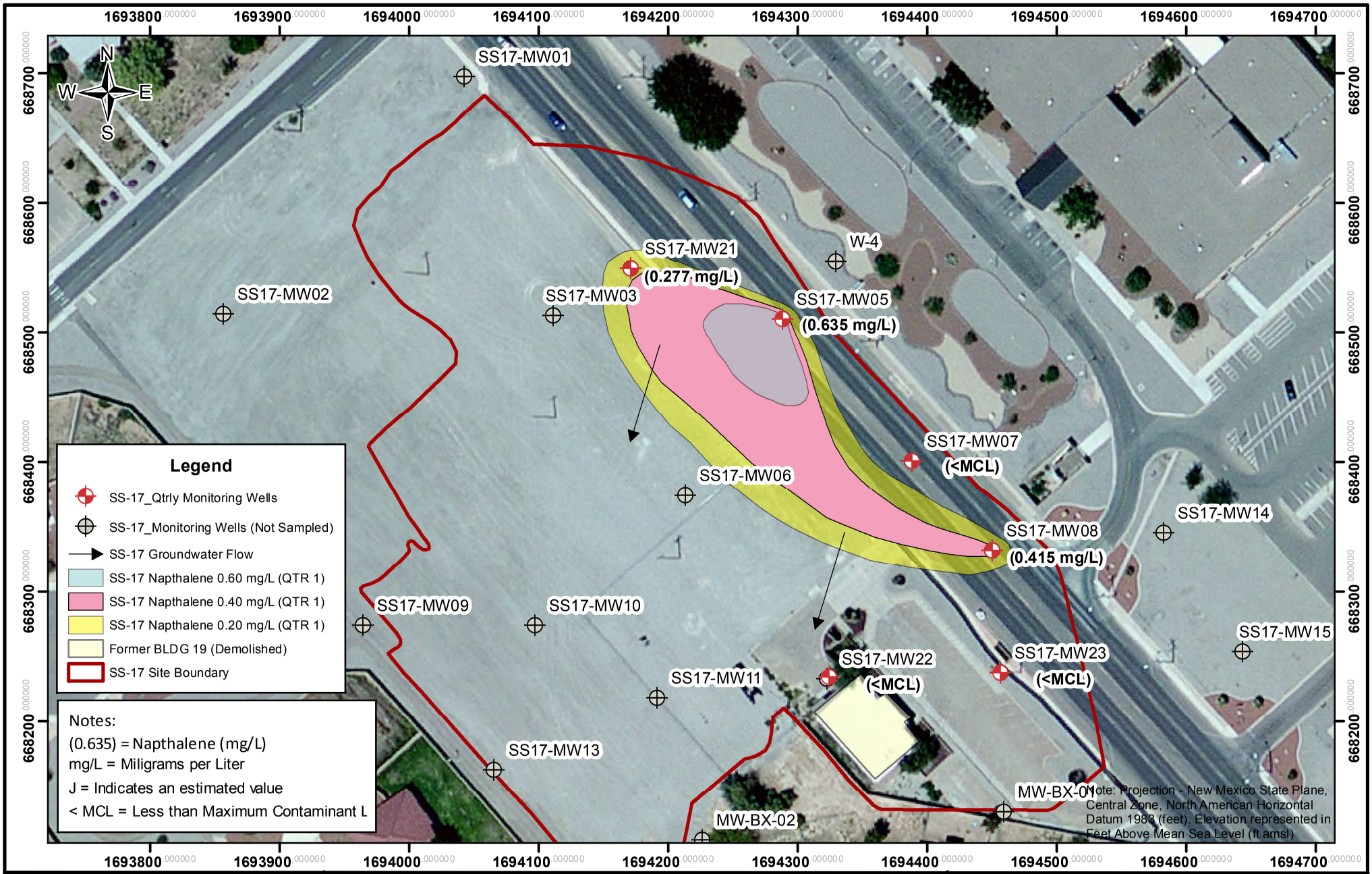
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-4D

SS-17
Lomg Term Monitoring
Quarter 4, Spring 2014
Holloman Air Force Base, New Mexico

Figure 5-4D

Figure 5-4E
m,p-xylene Concentration Trends in SS-17 Monitoring Wells
Holloman AFB, New Mexico
NationView Project No: 11-0019





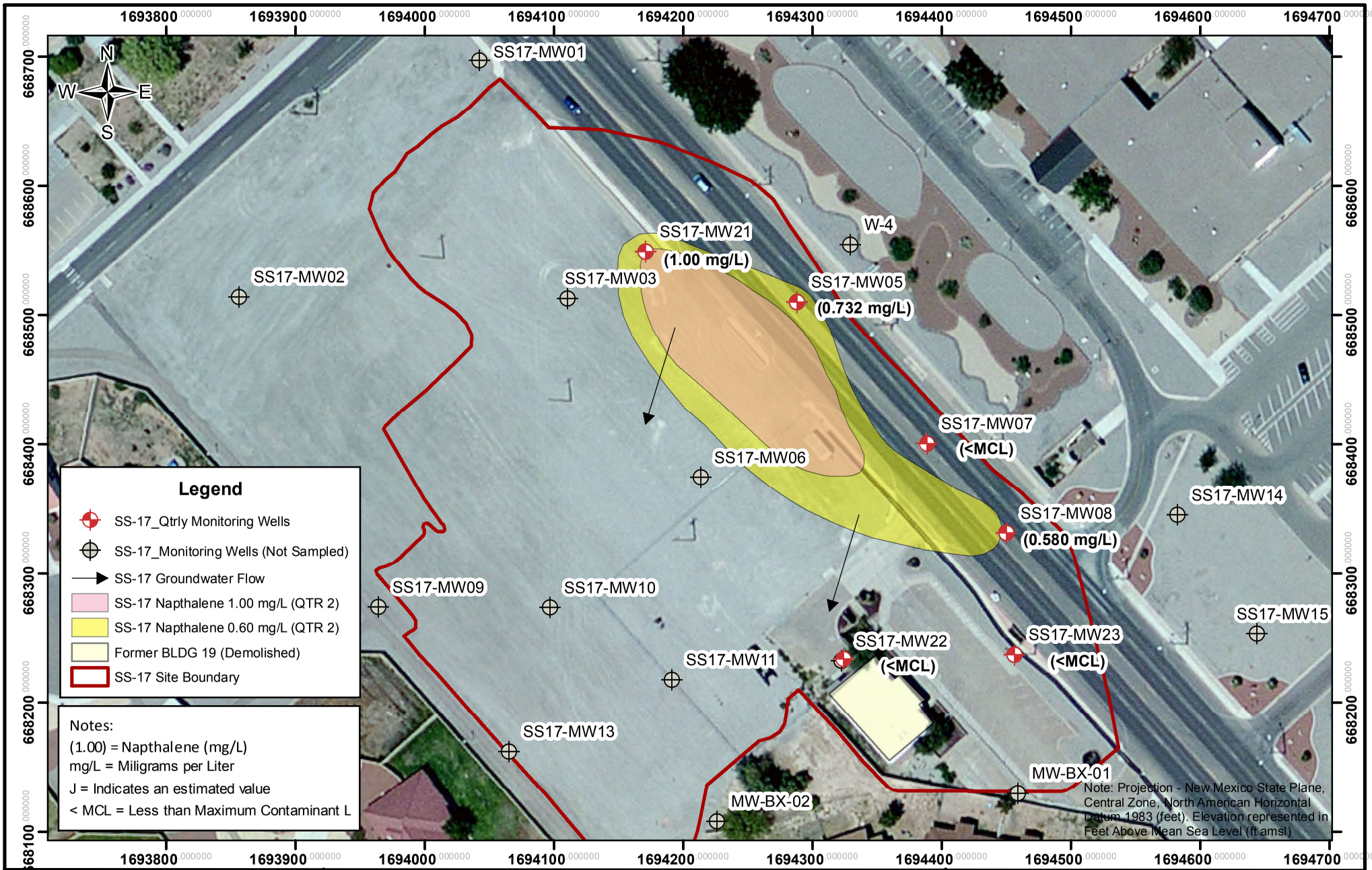
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Napthalene
Above Action Levels (August 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-5A

SS-17
Long Term Monitoring
Quarter 1, Summer 2013
Holloman Air Force Base, New Mexico

Figure 5-5A



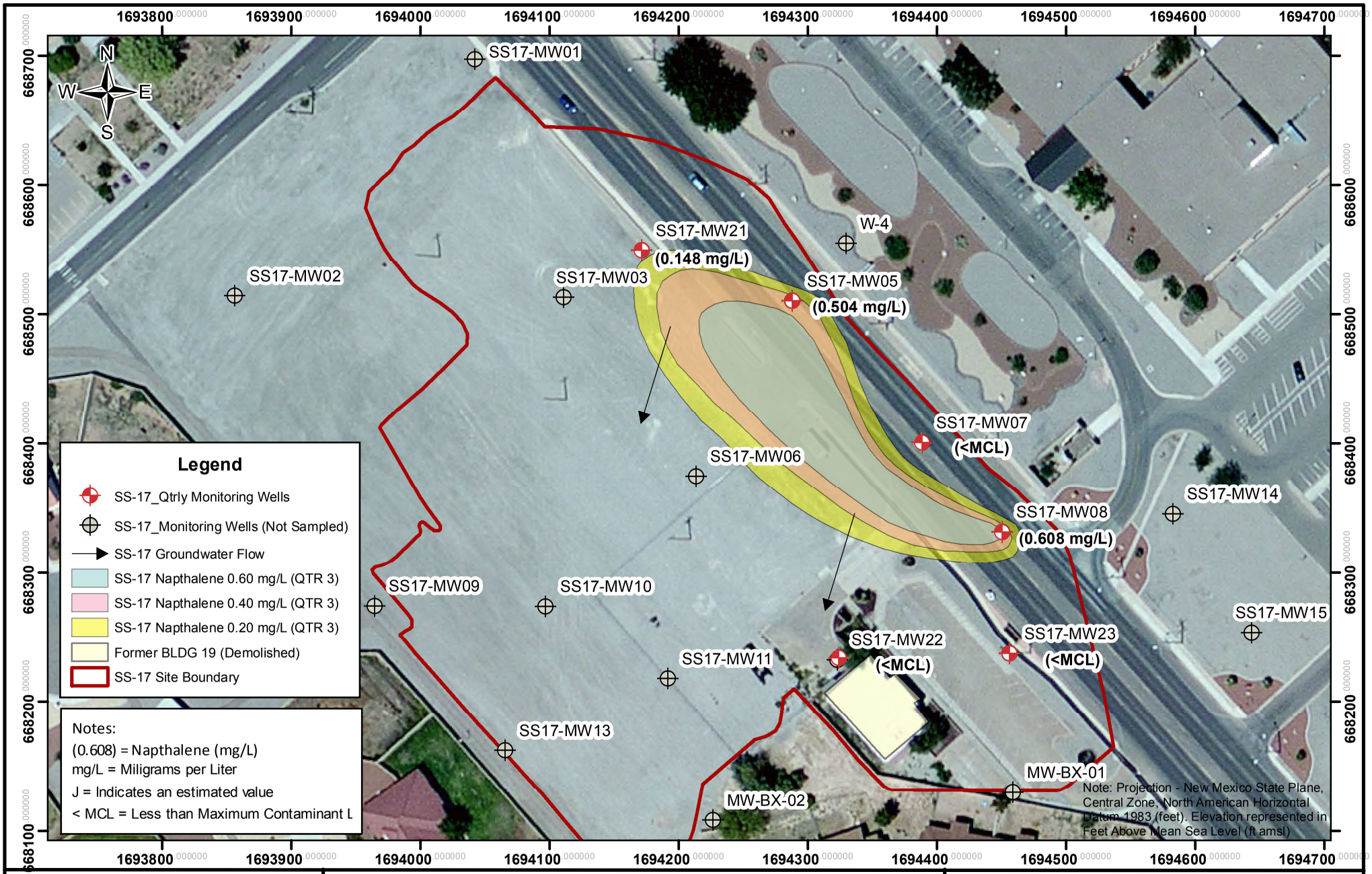
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Napthalene
Above Action Levels (November 2013)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-5B

SS-17
Long Term Monitoring
Quarter 2, Fall 2013
Holloman Air Force Base, New Mexico

Figure 5-5B



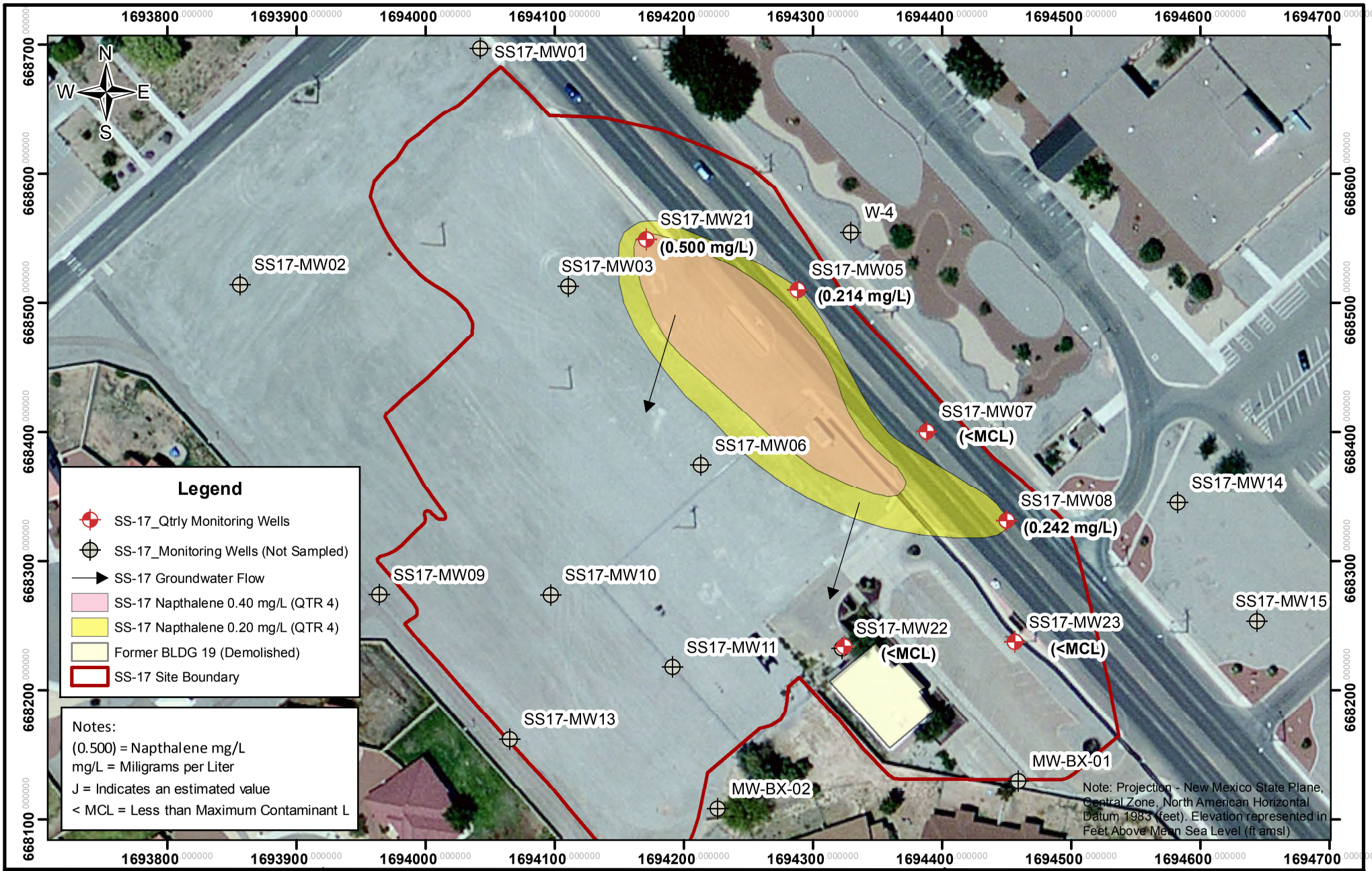
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Napthalene
Above Action Levels (February 2014)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-5C

SS-17
Long Term Monitoring
Quarter 3, Winter 2014
Holloman Air Force Base, New Mexico

Figure 5-5C



NATIONVIEW

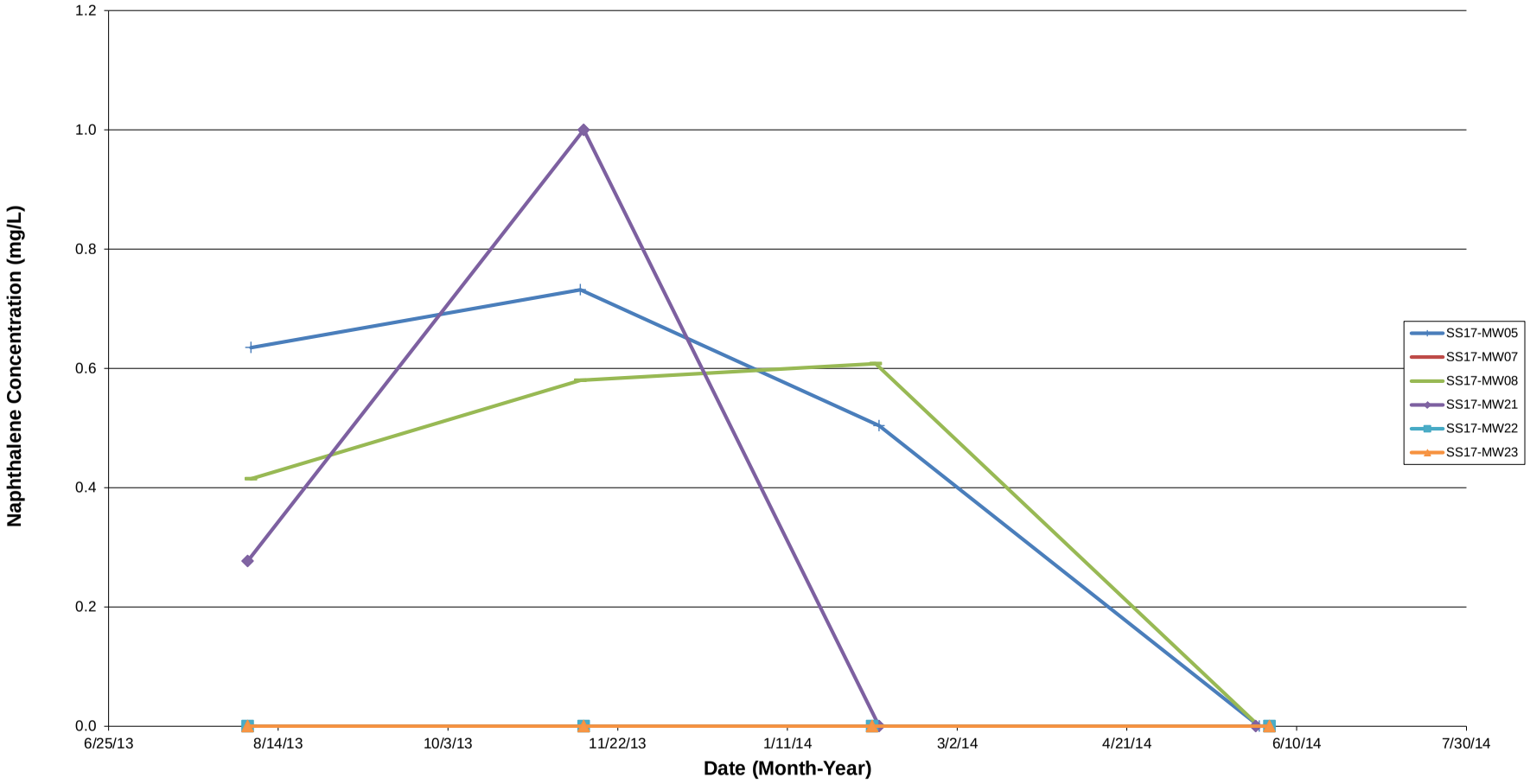
Site SS-17
Groundwater Analytical Results - Napthalene
Above Action Levels (May 2014)

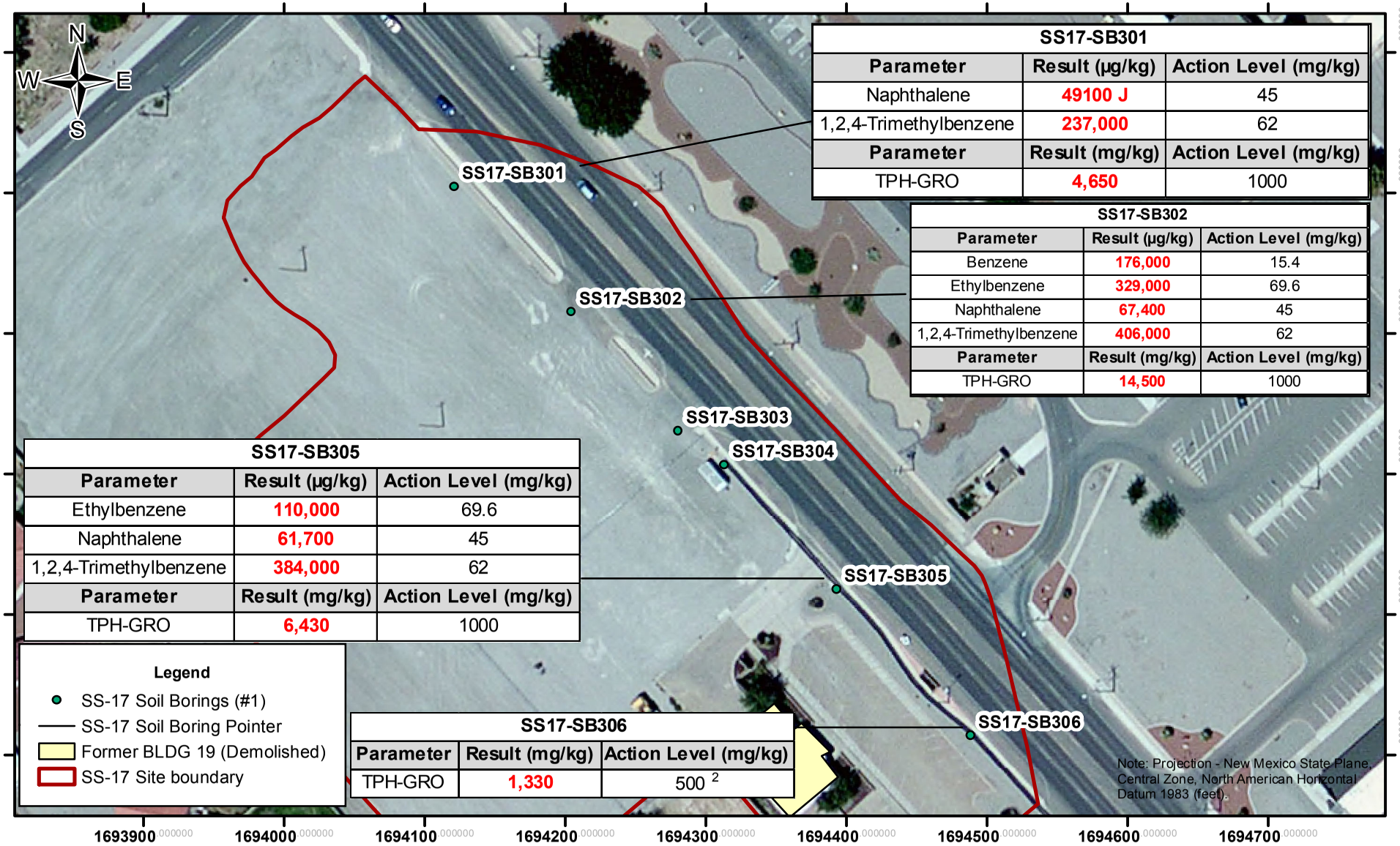
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 50 100 200 Feet	02/12/15	FRE
			DRAWING NO: Figure 5-5D

SS-17
Long Term Monitoring
Quarter 4, Spring 2014
Holloman Air Force Base, New Mexico

Figure 5-5D

Figure 5-5E
Naphthalene Concentration Trends in SS-17 Monitoring Wells
Holloman AFB, New Mexico
NationView Project No: 11-0019





SS17-SB301		
Parameter	**Result (µg/kg)**	**Action Level (mg/kg)**
Naphthalene	49100 J	45
1,2,4-Trimethylbenzene	237,000	62
Parameter	**Result (mg/kg)**	**Action Level (mg/kg)**
TPH-GRO	4,650	1000

SS17-SB302		
Parameter	**Result (µg/kg)**	**Action Level (mg/kg)**
Benzene	176,000	15.4
Ethylbenzene	329,000	69.6
Naphthalene	67,400	45
1,2,4-Trimethylbenzene	406,000	62
Parameter	**Result (mg/kg)**	**Action Level (mg/kg)**
TPH-GRO	14,500	1000

SS17-SB305		
Parameter	**Result (µg/kg)**	**Action Level (mg/kg)**
Ethylbenzene	110,000	69.6
Naphthalene	61,700	45
1,2,4-Trimethylbenzene	384,000	62
Parameter	**Result (mg/kg)**	**Action Level (mg/kg)**
TPH-GRO	6,430	1000

SS17-SB306		
Parameter	**Result (mg/kg)**	**Action Level (mg/kg)**
TPH-GRO	1,330	500 [2]

NATIONVIEW

SS-17
Annual Soil Analytical Results

PROJECT NO: 11-0019

SCALE: 0 37.5 75 150 Feet

DATE: 10/15/14

DRAWN BY: FRE

DRAWING NO: Figure 5-6

SS-17
Long Term Monitoring
Soil Analytical Results (#1)
Holloman Air Fiorce Base, New Mexico

Figure 5-6

APPENDIX B

Well Boring Logs, Construction Logs, and Well Development Logs

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HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Enviro-Drill	HOLE NO. SS17-MW21 SHEET 1 OF 2 SHEETS
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Kordell	6.MANUFACTURER'S DESIGNATION OF DRILL CME-75	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 7 inch Auger	8.HOLE LOCATION (NM Central State Plane) Northing 3633813.227 Easting 399393.976 UTM	
	9.SURFACE ELEVATION (FT. NAVD88) N/A	
	10.DATE STARTED 6/27/2013	11.DATE COMPLETED 6/27/2013
12.OVERBURDEN THICKNESS N/A	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) N/A	
13.DEPTH DRILLED INTO ROCK N/A	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED N/A	
14.TOTAL DEPTH OF HOLE (ft bgs) 17'-0"	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
N/A			N/A

20.SAMPLES FOR CHEMICAL ANALYSIS: 0	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
						N/A

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
MW		X		Randy Pochel

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	0"-2' Gravel fill					
	1						
	2	Dusky yellowish Brown 10 YR 2/2 Wet					
	3						
	4						
	5	Pale yellowish	1650 P.I.D.				
	6	Brown 10 YR 6/2 Silty clay					
	7						
	8						
	9						
	10		1748 P.I.D.				

	Project SS-17	HOLE NO. SS17-MW21

HTW DRILLING LOG

HOLE NO. SS17-MW21

PROJECT SS-17

INSPECTOR Randy Pochel

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	Pale Yellowish Brown Silty Clay (CL)					
	11						
	12						
	13		712 P.I.D.				
	14						
	15	Pale Yellowish Brown to Greenish Grey 5 GY 6/1					
	16		919 P.I.D.				
	17	Silt, Clay (CL) Saturated Total Depth 17'-0"					
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project Nitrate Characterization Study

HOLE NO. SS17-MW21

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-17	**WELL/BORING ID:**	SS17-MW21
PROJECT NAME:	SS-17	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0019	**DATE(S):**	6/27/2013
DRILLING CONTRACTOR:	Enviro-Drill	**SURVEYOR:**	N/A
DRILLER:	Kordell	**NORTHING (NAD 83):**	3633813.227 UTM
GEOLOGIST:	Randy Pochel	**EASTING (NAD 83):**	39939376 UTM

NOT TO SCALE

Surface Elevation (NAVD 88): N/A

Casing Elevation (NAVD 88): 4071.851

Borehole Diameter (in): 7.00

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: N/A

Date

Pre Development: N/A

Date

Post Development: N/A

Date

Top of Secondary Filter Pack: 4070.851 3'-0"

Top of Filter Pack: 4068.851 5'-0"

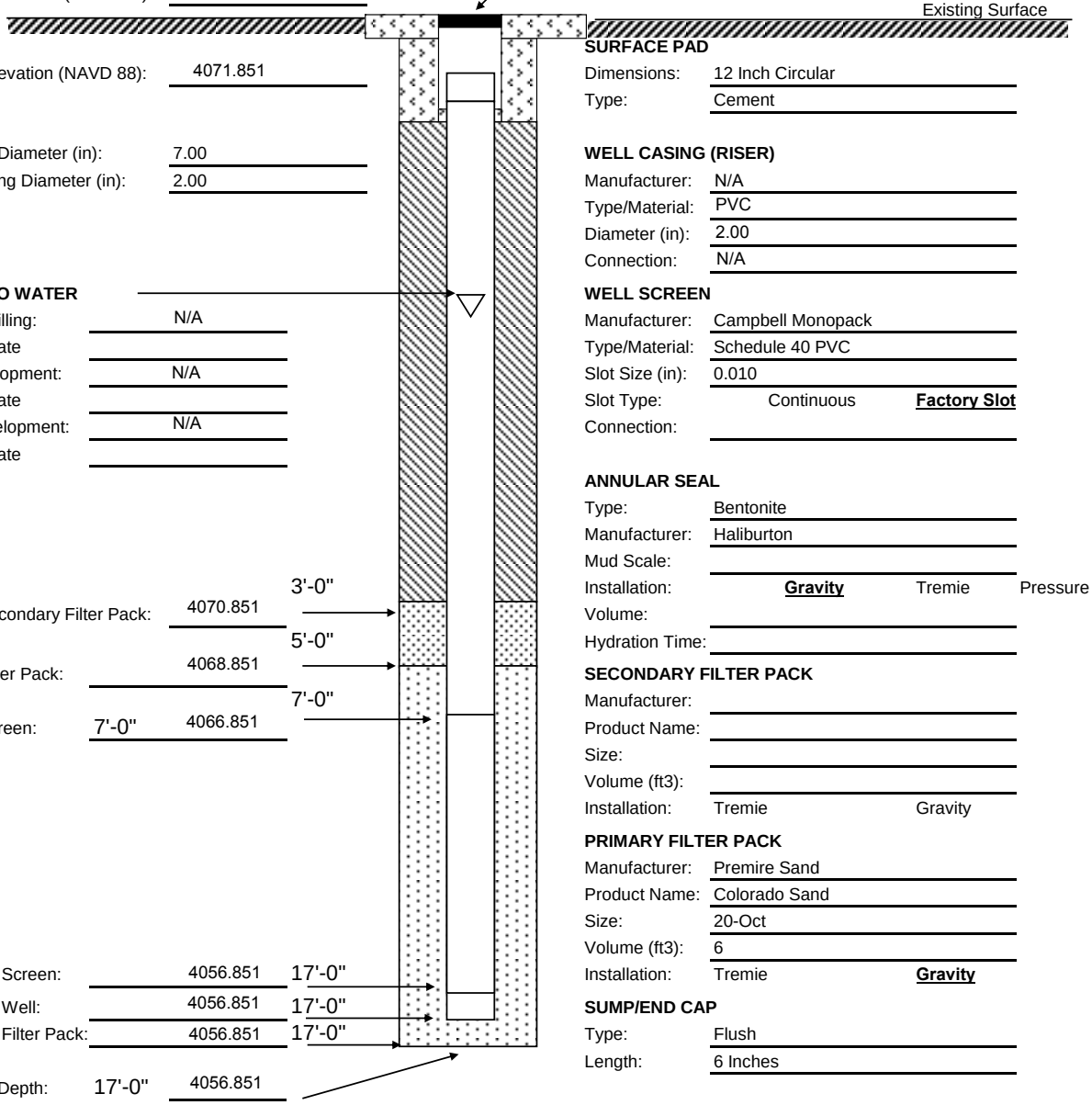
Top of Screen: 7'-0" 4066.851 7'-0"

Bottom of Screen: 4056.851 17'-0"

Bottom of Well: 4056.851 17'-0"

Bottom of Filter Pack: 4056.851 17'-0"

Borehole Depth: 17'-0" 4056.851



PROTECTIVE CASING

Type: Flush Mount

Dimensions: 8 Inch

Length: N/A

SURFACE PAD

Dimensions: 12 Inch Circular

Type: Cement

WELL CASING (RISER)

Manufacturer: N/A

Type/Material: PVC

Diameter (in): 2.00

Connection: N/A

WELL SCREEN

Manufacturer: Campbell Monopack

Type/Material: Schedule 40 PVC

Slot Size (in): 0.010

Slot Type: Continuous **Factory Slot**

Connection:

ANNULAR SEAL

Type: Bentonite

Manufacturer: Haliburton

Mud Scale:

Installation: **Gravity** Tremie Pressure

Volume:

Hydration Time:

SECONDARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

PRIMARY FILTER PACK

Manufacturer: Premire Sand

Product Name: Colorado Sand

Size: 20-Oct

Volume (ft3): 6

Installation: Tremie **Gravity**

SUMP/END CAP

Type: Flush

Length: 6 Inches

BACKFILL MATERIAL

Type: Cement

Volume: 2 - #60 bags

Comments: Cement from 3'-0" to Surface

NATIONVIEW

Monitoring Well Development Log

Date Started (yr/mo/day) 2013/07/11 Data Completed (yr/mo/day) 2013/07/11

Field Personnel: B. Parrish

Project: SS-17

Site Name: SS-17

Job No. : 11-00119 Well ID #MW-21

____Upgradient _____Downgradient _____Sidegradient

Weather Conditions: Partly Cloudy

Air Temperature: 88 °F

Total Well Depth (TWD)
From Top of Casing (TOC)= 15.40 1/100 ft

Depth to Ground Water (DGW)
From Top of Casing (TOC)= 7.24 1/100 ft

Length of Water Column (LWC) = TWD – DGW =8.16 1/100 ft

1 Casing Volume (OCV) – LWC x 0.16 = 1.31 gallons

5 Casing Volumes = 6.55 gallons

Method of Well Development: Monsoon pump, Polyethylene tubing

Total Volume of Water Removed: 27.62 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (umhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sand Content (%)	Remarks
1330	0.20	25	23.28	6.29	-349.9	2.65	22	0.80	0	Black tint. Fuel/organic odor
1337	0.20	26.31	23.21	6.35	-362.6	2.55	20	0.82	0	Black tint. Fuel/organic odor
1344	0.20	27.62	23.16	6.36	-363.9	2.51	18	0.83	0	Black tint. Fuel/organic odor

COMMENTS/OBSERVATIONS: Approximately 12 inches of fuel on top of water column. All silt and purge water grey. Biosludge on top of liquid in each purged bucket.

HTW DRILLING LOG

HOLE NO. SS17-MW22		
1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Enviro-Drill	SHEET 1 OF 2 SHEETS
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Kordell	6.MANUFACTURER'S DESIGNATION OF DRILL CME-75	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 7 inch Auger	8.HOLE LOCATION (NM Central State Plane) Northing 3633716.174 Easting 439.047 UTM	
	9.SURFACE ELEVATION (FT. NAVD88) N/A	
	10.DATE STARTED 6/27/2013	11.DATE COMPLETED 6/27/2013
12.OVERBURDEN THICKNESS N/A	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 15'-0"	
13.DEPTH DRILLED INTO ROCK N/A	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED N/A	
14.TOTAL DEPTH OF HOLE (ft bgs) 17'-0"	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
N/A			N/A

20.SAMPLES FOR CHEMICAL ANALYSIS: 0	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
						N/A

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
MW		X		Randy Pochel

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	0"-2' 6" Gravel fill					
	1	Fill, then Dry Sandy silt (ML)					
	2	Dusky yellowish Orange 10 YR 5/6					
	3		-38 P.I.D.				
	4		-26 P.I.D.				
	5	Silty Sand (ML) Dark yellowish Orange 10 YR 6/6					
	6						
	7		22.1 P.I.D.				
	8						
	9						
	10						

HTW DRILLING LOG

HOLE NO. SS17-MW22		
PROJECT SS-17	INSPECTOR Randy Pochel	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	Pale yellowish Brown 10 YR 6/2 **Wet** (CL)					
	13		22.1 P.I.D.				
	14						
	15	Pale Yellowish Brown 10 YR 6/2 Wet silty clay (CL)					
	16		16.5 P.I.D.				
	17	Total Depth 17'-0"					
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project Nitrate Characterization Study	HOLE NO. SS17-MW22

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-17	**WELL/BORING ID:**	SS17-MW22
PROJECT NAME:	SS-17	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0019	**DATE(S):**	6/27/2013
DRILLING CONTRACTOR:	Enviro-Drill	**SURVEYOR:**	N/A
DRILLER:	Kordell	**NORTHING (NAD 83):**	3633716.174 UTM
GEOLOGIST:	Randy Pochel	**EASTING (NAD 83):**	399439.047 UTM

NOT TO SCALE

Surface Elevation (NAVD 88): N/A

Casing Elevation (NAVD 88): 4073.108

Borehole Diameter (in): 7.00

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: N/A

Date

Pre Development: N/A

Date

Post Development: N/A

Date

Top of Secondary Filter Pack: 4070.108 3'-0"

Top of Filter Pack: 4068.108 5'-0"

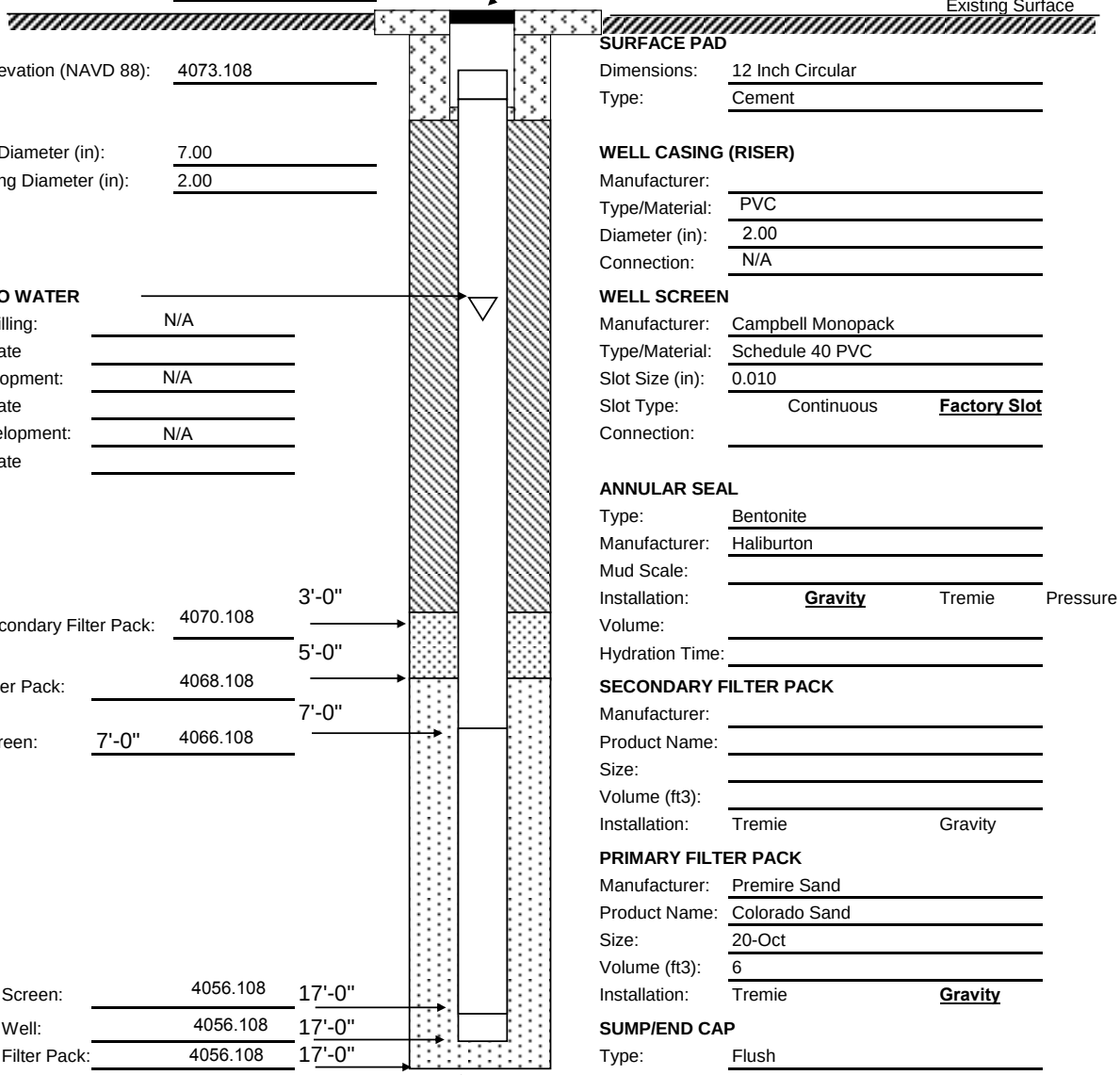
Top of Screen: 7'-0" 4066.108 7'-0"

Bottom of Screen: 4056.108 17'-0"

Bottom of Well: 4056.108 17'-0"

Bottom of Filter Pack: 4056.108 17'-0"

Borehole Depth: 17'-0" 4056.108



PROTECTIVE CASING

Type: Flush Mount

Dimensions: 8 Inch

Length: N/A

SURFACE PAD

Dimensions: 12 Inch Circular

Type: Cement

WELL CASING (RISER)

Manufacturer:

Type/Material: PVC

Diameter (in): 2.00

Connection: N/A

WELL SCREEN

Manufacturer: Campbell Monopack

Type/Material: Schedule 40 PVC

Slot Size (in): 0.010

Slot Type: Continuous **Factory Slot**

Connection:

ANNULAR SEAL

Type: Bentonite

Manufacturer: Haliburton

Mud Scale:

Installation: **Gravity** Tremie Pressure

Volume:

Hydration Time:

SECONDARY FILTER PACK

Manufacturer:

Product Name:

Size:

Volume (ft3):

Installation: Tremie Gravity

PRIMARY FILTER PACK

Manufacturer: Premire Sand

Product Name: Colorado Sand

Size: 20-Oct

Volume (ft3): 6

Installation: Tremie **Gravity**

SUMP/END CAP

Type: Flush

Length: 6 Inches

BACKFILL MATERIAL

Type: Cement

Volume: 2 - #60 bags

Comments: Cement from 3'-0" to Surface

NATIONVIEW

Monitoring Well Development Log

Date Started (yr/mo/day) 2013/07/11 Data Completed (yr/mo/day) 2013/07/11

Field Personnel: B. Parrish

Project: SS-17

Site Name: SS-17

Job No. : 11-00119 Well ID #MW-22

____Upgradient _____Downgradient _____Sidegradient

Weather Conditions: Partly Cloudy, Windy

Air Temperature: 79 °F

Total Well Depth (TWD)
From Top of Casing (TOC)= 15.85 1/100 ft

Depth to Ground Water (DGW)
From Top of Casing (TOC)= 9.93 1/100 ft

Length of Water Column (LWC) = TWD – DGW =5.92 1/100 ft

1 Casing Volume (OCV) – LWC x 0.16 = 0.95 gallons

5 Casing Volumes = 4.75 gallons

Method of Well Development: Monsoon pump, Polyethylene tubing

Total Volume of Water Removed: 22.90 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (umhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sand Content (%)	Remarks
1110	0.20	21	20.99	6.47	-33.7	7.66	22	0.26	0	
1115	0.20	21.95	20.95	6.51	-37.9	7.62	21	0.26	0	
1120	0.20	22.90	20.93	6.53	-38.5	7.61	19	0.27	0	

COMMENTS/OBSERVATIONS:

HTW DRILLING LOG

HOLE NO. SS17-MW23		
1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Enviro-Drill	SHEET 1 OF 2 SHEETS
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Kordell	6.MANUFACTURER'S DESIGNATION OF DRILL CME-75	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 7 inch Auger	8.HOLE LOCATION (NM Central State Plane) Northing 3633717.162 Easting 399479.803	
	9.SURFACE ELEVATION (FT. NAVD88) N/A	
	10.DATE STARTED 6/27/2013	11.DATE COMPLETED 6/27/2013
12.OVERBURDEN THICKNESS N/A	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) N/A	
13.DEPTH DRILLED INTO ROCK N/A	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	
14.TOTAL DEPTH OF HOLE (ft bgs) 17'-0"	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
N/A			N/A

20.SAMPLES FOR CHEMICAL ANALYSIS: 0	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
						N/A

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
MW		X		Randy Pochel

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	0"-2' 6" Gravel fill					
	1	Moderate yellowish brown Sandy silt (ML) 10 YR 5/4					
	2	Moderate yellowish brown Sandy silt (ML) 10 YR 5/4	24.3 P.I.D.				
	3						
	4						
	5	Wet Silty Sand (ML) Moderate yellowish Brown 10 YR 5/4					
	6						
	7	Wet Silty Sand (ML) Moderate yellowish Brown 10 YR 5/4	17.5 P.I.D.				
	8						
	9						
	10						

	Project SS-17	HOLE NO. SS17-MW23

HTW DRILLING LOG

PROJECT SS-17	INSPECTOR Randy Pochel		HOLE NO. SS17-MW23
			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	@ 12'-0" change to Pale Yellowish Brown 10 YR 6/2 wet silty clay (CL)					
	13						
	14						
	15	Saturated silty sand and clay (CL) Pale Yellowish Brown 10 YR 6/2					
	16						
	17	Total Depth 17'-0"					
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project Nitrate Characterization Study	HOLE NO. SS17-MW23

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-17	**WELL/BORING ID:**	SS17-MW23
PROJECT NAME:	SS-17	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0019	**DATE(S):**	6/27/2013
DRILLING CONTRACTOR:	Enviro-Drill	**SURVEYOR:**	N/A
DRILLER:	Kordell	**NORTHING (NAD 83):**	3365377.162 UTM
GEOLOGIST:	Randy Pochel	**EASTING (NAD 83):**	399479.803 UTM

NOT TO SCALE

Surface Elevation (NAVD 88): N/A

Casing Elevation (NAVD 88): 4072.622

Borehole Diameter (in): 7.00

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:

Date N/A

Pre Development:

Date N/A

Post Development:

Date N/A

Top of Secondary Filter Pack: 4069.622 — 3'-0"

Top of Filter Pack: 4067.622 — 5'-0"

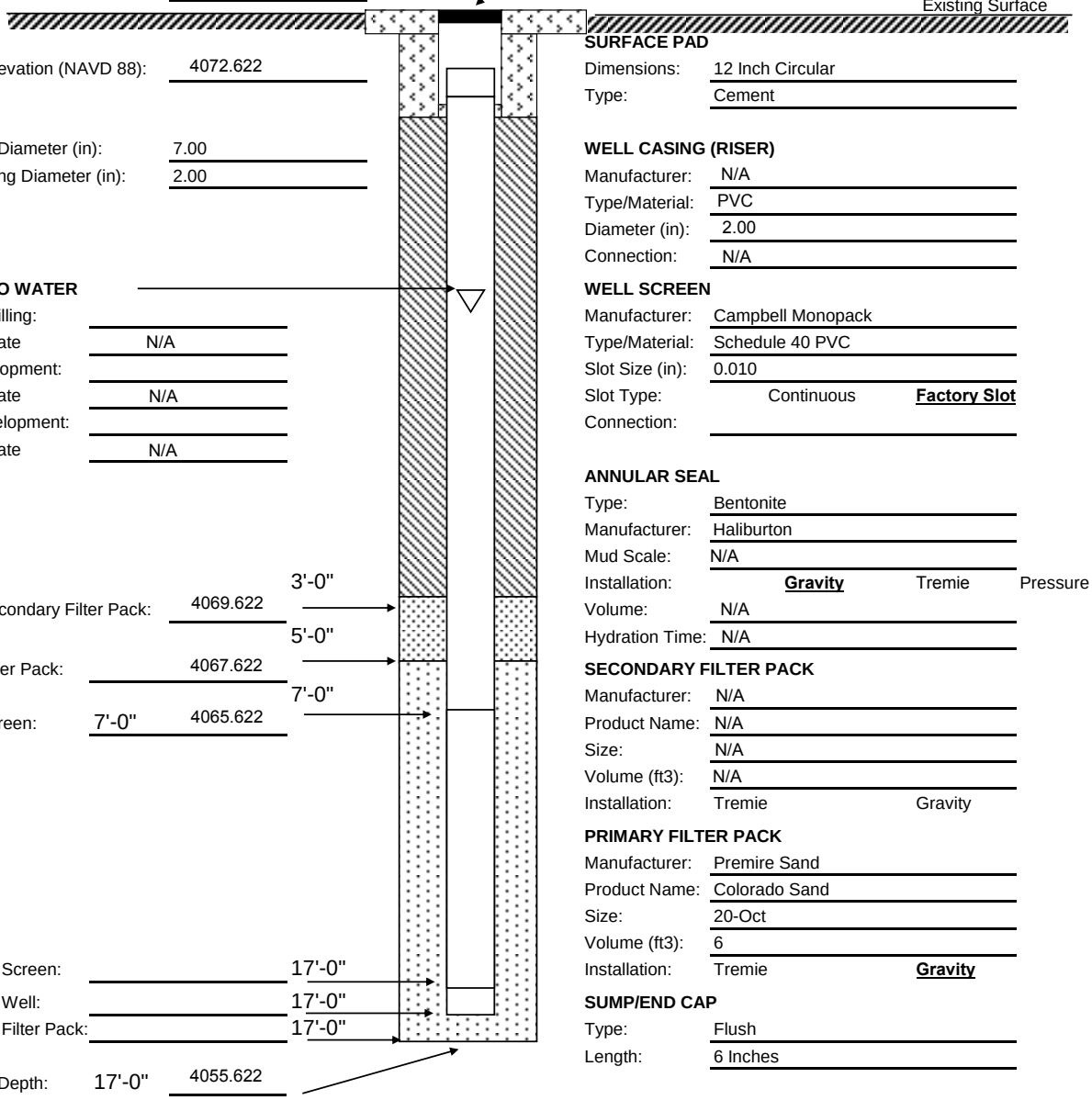
Top of Screen: 7'-0" 4065.622 — 7'-0"

Bottom of Screen: 17'-0"

Bottom of Well: 17'-0"

Bottom of Filter Pack: 17'-0"

Borehole Depth: 17'-0" 4055.622



PROTECTIVE CASING

Type: Flush Mount

Dimensions: 8 Inch

Length: N/A

SURFACE PAD

Dimensions: 12 Inch Circular

Type: Cement

WELL CASING (RISER)

Manufacturer: N/A

Type/Material: PVC

Diameter (in): 2.00

Connection: N/A

WELL SCREEN

Manufacturer: Campbell Monopack

Type/Material: Schedule 40 PVC

Slot Size (in): 0.010

Slot Type: Continuous **Factory Slot**

Connection:

ANNULAR SEAL

Type: Bentonite

Manufacturer: Haliburton

Mud Scale: N/A

Installation: **Gravity** Tremie Pressure

Volume: N/A

Hydration Time: N/A

SECONDARY FILTER PACK

Manufacturer: N/A

Product Name: N/A

Size: N/A

Volume (ft3): N/A

Installation: Tremie Gravity

PRIMARY FILTER PACK

Manufacturer: Premire Sand

Product Name: Colorado Sand

Size: 20-Oct

Volume (ft3): 6

Installation: Tremie **Gravity**

SUMP/END CAP

Type: Flush

Length: 6 Inches

BACKFILL MATERIAL

Type: Cement

Volume: 2 - #60 bags

Comments: Cement from 3'-0" to Surface

NATIONVIEW

Monitoring Well Development Log

Date Started (yr/mo/day) 2013/07/11 Data Completed (yr/mo/day) 2013/07/11

Field Personnel: B. Parrish

Project: SS-17

Site Name: SS-17

Job No. : 11-00119 Well ID #MW-23

____Upgradient _____Downgradient _____Sidegradient

Weather Conditions: Partly Cloudy

Air Temperature: 75 °F

Total Well Depth (TWD)
From Top of Casing (TOC)= 17.18 1/100 ft

Depth to Ground Water (DGW)
From Top of Casing (TOC)= 8.90 1/100 ft

Length of Water Column (LWC) = TWD – DGW =8.28 1/100 ft

1 Casing Volume (OCV) – LWC x 0.16 = 1.33 gallons

5 Casing Volumes = 6.65 gallons

Method of Well Development: Monsoon pump, Polyethylene tubing

Total Volume of Water Removed: 17.66 gallons

Date/Time	Discharge Rate (gpm)	Volume Purged (gallons)	Water Temperature (°C)	pH	ORP	Specific Conductivity (umhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Sand Content (%)	Remarks
0940	0.20	15	23.63	6.68	12.8	3.01	32	6.15	0	
0947	0.20	16.33	23.59	6.70	7.1	2.98	30	6.18	0	
0954	0.20	17.66	23.49	6.70	6.8	2.95	29	6.22	0	

COMMENTS/OBSERVATIONS:

APPENDIX C

Groundwater Sampling Field Forms

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Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/06
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW05
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 75 °F
Total Well Depth (TWD) = 16.09 1/100 ft
Depth to Ground Water (DGW) = 7.29 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.80 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.41 gallons
4.22 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 8.2 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	5	6.6	8.2					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	0833	0841	0849					
pH (S.U.)	6.16	6.20	6.22					
Specific Conductivity	3.58	3.63	3.64					
Water Temp (°C)	28.63	28.54	28.57					
Dissolved Oxygen (mg/L)	-2.14	-2.18	-2.17					
Oxidation Reduction Potentail (ORP) (mV)	-365.9	-367.4	-368.2					
Turbidity (NTU)	5.0	3.2	2.3					
Water Level (ft/TOC)	7.51	7.43	7.41					

COMMENTS/OBSERVATIONS:_____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/06
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW07
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 80 ^{o}F
Total Well Depth (TWD) = 15.19 1/100 ft
Depth to Ground Water (DGW) = 7.41 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.78 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.25 gallons
3.75 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 6.8 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedictated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE_____ HIGH___X___
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	4	5.4	6.8					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	0945	0952	0959					
pH (S.U.)	6.43	6.44	6.45					
Specific Conductivity	2.73	2.74	2.75					
Water Temp (^{o}C)	27.55	27.44	27.50					
Dissolved Oxygen (mg/L)	0.10	0.10	0.11					
Oxidation Reduction Potentail (ORP) (mV)	-317.4	-319.9	-320.6					
Turbidity (NTU)	4.3	4.3	3.3					
Water Level (ft/TOC)	7.93	7.85	7.89					

COMMENTS/OBSERVATIONS:_____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/06
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW08
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 82 °F
Total Well Depth (TWD) = 16.72 1/100 ft
Depth to Ground Water (DGW) = 7.63 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.09 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.46 gallons
4.38 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 8.2 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedictated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	5	6.6	8.2					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	1047	1055	1103					
pH (S.U.)	6.17	6.15	6.19					
Specific Conductivity	4.08	4.07	4.09					
Water Temp (°C)	28.40	28.38	28.47					
Dissolved Oxygen (mg/L)	-3.52	-3.58	-3.59					
Oxidation Reduction Potential (ORP) (mV)	-360.3	-361.0	-361.1					
Turbidity (NTU)	2.6	3.4	2.2					
Water Level (ft/TOC)	7.80	7.83	7.85					

COMMENTS/OBSERVATIONS: Clear with light fuel odor

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/05
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW21
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 88 ^{o}F
Total Well Depth (TWD) = 16.35 1/100 ft
Depth to Ground Water (DGW) = 5.81 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.54 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.69 gallons
5.06 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 11.4 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	6	7.8	9.6	11.4				
Pumping Rate (gpm)	0.20	0.20	0.20	0.20				
TIME (military)	1152	1201	1210	1219				
pH (S.U.)	6.15	6.19	6.17	6.16				
Specific Conductivity	3.38	3.39	3.40	3.39				
Water Temp (^{o}C)	25.27	25.31	25.34	25.27				
Dissolved Oxygen (mg/L)	-1.03	-2.82	-2.85	-2.89				
Oxidation Reduction Potential (ORP) (mV)	-353.4	-354.6	-358.3	-361.8				
Turbidity (NTU)	80	25	23	21				
Water Level (ft/TOC)	6.35	6.12	6.10	6.22				

COMMENTS/OBSERVATIONS: +/- 2 Feet of raw fuel in purge line (Poly). Grey tint in water after 3 volumes removed.

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/05
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW22
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 88 ^{o}F
Total Well Depth (TWD) = 16.35 1/100 ft
Depth to Ground Water (DGW) = 9.27 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.08 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.13 gallons
3.40 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 6.4 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: Fuel smell

FIELD ANALYSES

Volume Purged (gallons)	4	5.2	6.4					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	1018	1024	1030					
pH (S.U.)	6.98	7.00	6.98					
Specific Conductivity	8.29	8.45	8.32					
Water Temp (^{o}C)	21.29	21.36	21.28					
Dissolved Oxygen (mg/L)	0.05	0.05	0.05					
Oxidation Reduction Potential (ORP) (mV)	-74.5	-76.7	-73.8					
Turbidity (NTU)	160	14	55					
Water Level (ft/TOC)	9.97	10.67	10.88					

COMMENTS/OBSERVATIONS: Turbidity fluctuated greatly up and down.

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/08/05
Field Personnel: B. Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW23
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 72 ^{o}F
Total Well Depth (TWD) = 17.20 1/100 ft
Depth to Ground Water (DGW) = 8.30 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.90 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.42 gallons
4.26 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 8.2 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW__X___ MODERATE_____ HIGH_____
Comments/Observations: Fuel odor

FIELD ANALYSES

Volume Purged (gallons)	5	6.6	8.2					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	0814	0822	0830					
pH (S.U.)	6.98	6.99	6.99					
Specific Conductivity	5.83	5.84	5.85					
Water Temp (^{o}C)	23.41	23.18	23.26					
Dissolved Oxygen (mg/L)	0.04	0.03	0.04					
Oxidation Reduction Potential (ORP) (mV)	-115.8	-122.5	-128.4					
Turbidity (NTU)	500	+1000	+1000					
Water Level (ft/TOC)	11.93	12.55	13.05					

COMMENTS/OBSERVATIONS: Water level at top of pump. Turbidity would not decrease below 1000

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/11
Field Personnel: B.Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW05
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 48 ^{o}F
Total Well Depth (TWD) = 16.07 1/100 ft
Depth to Ground Water (DGW) = 6.89 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.18 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.47 gallons
4.41 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 7.5 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: Fuel / Organic odor. Black Tint

FIELD ANALYSES

Volume Purged (gallons)	1.5	3.0	4.5	6.0	7.5			
Pumping Rate (gpm)	0.25	0.25	0.25	0.25	0.25			
TIME (military)	0836	0842	0848	0854	0900			
pH (S.U.)	6.57	6.60	6.58	6.60	6.60			
Specific Conductivity	3.73	3.68	3.69	3.70	3.71			
Water Temp (^{o}C)	27.49	27.57	27.79	27.62	27.62			
Dissolved Oxygen (mg/L)	1.95	1.48	1.05	1.00	1.01			
Oxidation Reduction Potentail (ORP) (mV)	340.2	351.0	362.4	363.9	368.6			
Turbidity (NTU)	>500	25	9.1	12	11			
Water Level (ft/TOC)	7.16	7.08	7.22	7.06	7.06			

COMMENTS/OBSERVATIONS:_____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/11
Field Personnel: B.Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW07
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 59 ^{o}F
Total Well Depth (TWD) = 15.16 1/100 ft
Depth to Ground Water (DGW) = 6.75 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.41 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.35 gallons
4.05 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 5.6 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE_____ HIGH__X____
Comments/Observations_____

FIELD ANALYSES

Volume Purged (gallons)	1.4	2.8	4.2	5.6				
Pumping Rate (gpm)	0.20	0.20	0.20	0.20				
TIME (military)	1001	1008	1015	1022				
pH (S.U.)	6.80	6.82	6.82	6.82				
Specific Conductivity	2.67	2.70	2.71	2.71				
Water Temp (^{o}C)	27.05	27.16	27.11	27.13				
Dissolved Oxygen (mg/L)	1.30	1.04	0.99	0.98				
Oxidation Reduction Potentail (ORP) (mV)	317.7	327.4	332.1	333.9				
Turbidity (NTU)	5.4	3.1	2.4	2.2				
Water Level (ft/TOC)	6.97	6.96	7.01	6.99				

COMMENTS/OBSERVATIONS:_____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/11
Field Personnel: B.Parrish, K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW08
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 69 ^{o}F
Total Well Depth (TWD) = 16.72 1/100 ft
Depth to Ground Water (DGW) = 6.55 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.17 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.63 gallons
4.89 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 7.2 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE___X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	1.8	3.6	5.4	7.2				
Pumping Rate (gpm)	0.20	0.20	0.20	0.20				
TIME (military)	1240	1249	1258	1307				
pH (S.U.)	6.52	6.48	6.47	6.44				
Specific Conductivity	4.91	4.68	4.67	4.66				
Water Temp (^{o}C)	28.00	27.97	28.01	28.01				
Dissolved Oxygen (mg/L)	2.34	3.14	2.98	3.05				
Oxidation Reduction Potentail (ORP) (mV)	368.0	374.5	378.0	379.7				
Turbidity (NTU)	11	4.3	3.6	2.7				
Water Level (ft/TOC)	6.75	6.75	6.70	6.87				

COMMENTS/OBSERVATIONS:_____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/12
Field Personnel: B. Parrish, R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW21
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 41 °F
Total Well Depth (TWD) = 16.29 1/100 ft
Depth to Ground Water (DGW) = 4.96 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 11.33 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.81 gallons
5.43 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 8.0 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW____ MODERATE_____ HIGH___X___
Comments/Observations: +/- 6 inches of product (fuel) on top of water.

FIELD ANALYSES

Volume Purged (gallons)	2	4	6	8				
Pumping Rate (gpm)	0.20	0.20	0.20	0.20				
TIME (military)	0834	0844	0854	0904				
pH (S.U.)	6.26	6.33	6.35	6.35				
Specific Conductivity	3.72	3.76	3.77	3.78				
Water Temp (°C)	25.51	25.61	25.54	25.57				
Dissolved Oxygen (mg/L)	4.69	0.44	0.40	0.41				
Oxidation Reduction Potentail (ORP) (mV)	361.8	369.7	372.3	373.9				
Turbidity (NTU)	14	4.7	2.9	2.7				
Water Level (ft/TOC)	5.81	5.71	5.85	5.70				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/12
Field Personnel: B. Parrish, R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW22
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 53 °F
Total Well Depth (TWD) = 16.36 1/100 ft
Depth to Ground Water (DGW) = 8.51 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.85 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.26 gallons
3.78 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 5.6 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW__X__ MODERATE_____ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	1.4	2.8	4.2	5.6				
Pumping Rate (gpm)	0.20	0.20	0.20	0.20				
TIME (military)	1005	1012	1019	1026				
pH (S.U.)	6.62	6.48	6.60	6.63				
Specific Conductivity	3.72	3.76	3.74	3.74				
Water Temp (°C)	22.51	22.70	22.57	22.50				
Dissolved Oxygen (mg/L)	0.98	0.97	0.97	0.97				
Oxidation Reduction Potentail (ORP) (mV)	266.9	264.3	264.2	265.5				
Turbidity (NTU)	38	14	13	12				
Water Level (ft/TOC)	9.34	9.51	9.89	9.80				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2013/11/12
Field Personnel: B. Parrish, R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW23
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions: Clear and Sunny
Air Temperature: 62 °F
Total Well Depth (TWD) = 17.18 1/100 ft
Depth to Ground Water (DGW) = 7.42 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.76 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.56 gallons
4.8 gal = Standard Evacuation Volume
Method of Well Evacuation: Monsoon pump
Method of Sample Collection: Polyethylene Tubing
Total Volume of Water Removed: 4.8 gallons

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_X___ MODERATE_____ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (gallons)	1.6	3.2	4.8					
Pumping Rate (gpm)	0.20	0.20	0.20					
TIME (military)	1242	1250	1258					
pH (S.U.)	6.48	6.47	6.49					
Specific Conductivity	9.96	10.05	10.09					
Water Temp (°C)	24.47	24.63	24.65					
Dissolved Oxygen (mg/L)	0.94	0.93	0.93					
Oxidation Reduction Potentail (ORP) (mV)	101.5	106.5	107.1					
Turbidity (NTU)	14	13	12					
Water Level (ft/TOC)	8.79	9.31	9.65					

COMMENTS/OBSERVATIONS: Mild Fuel odor.

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/07
Field Personnel: B. Parrish / R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW05
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Partly cloudy
Air Temperature: 34°F
Total Well Depth (TWD) = 16.07 1/100 ft
Depth to Ground Water (DGW) = 6.81 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.26 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.48 gallons (5609mL)
4.44 gal (16827 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 30000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	6000	12000	18000	24000	30000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	0948	1000	1012	1024	1036			
pH (S.U.)	6.22	6.20	6.18	6.17	6.18			
Specific Conductivity	3.20	3.20	3.24	3.23	3.25			
Water Temp (°C)	21.99	22.06	22.10	22.00	22.08			
Dissolved Oxygen (mg/L)	-0.90	-0.91	-0.92	-0.91	-0.91			
Oxidation Reduction Potential (ORP) (mV)	-358.3	-361.1	-358.0	-357.6	-360.2			
Turbidity (NTU)	27	9.6	5.8	3.6	5.8			
Water Level (ft/TOC)	6.99	7.00	7.00	7.00	7.08			

COMMENTS/OBSERVATIONS: __Mild Fuel Odor

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/07
Field Personnel: B. Parrish / R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW07
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Mostly cloudy
Air Temperature: 34°F
Total Well Depth (TWD) = 15.15 1/100 ft
Depth to Ground Water (DGW) = 6.87 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.28 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.32 gallons (5021mL)
3.96 gal (15063 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 20000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	5000	10000	15000	20000				
Pumping Rate (mL/pm)	500	500	500	500				
TIME (military)	0836	0846	0856	0906				
pH (S.U.)	6.56	6.60	6.59	6.59				
Specific Conductivity	1.62	1.63	1.61	1.62				
Water Temp (°C)	21.33	21.11	20.99	21.06				
Dissolved Oxygen (mg/L)	-0.80	-0.60	-0.53	-0.54				
Oxidation Reduction Potential (ORP) (mV)	-328.8	-329.2	-329.1	-327.7				
Turbidity (NTU)	6.1	2.7	1.2	2.0				
Water Level (ft/TOC)	7.05	7.05	7.05	7.05				

COMMENTS/OBSERVATIONS: Organic/Sewage odor

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/06
Field Personnel: T. Lucero / K. Fuller
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW08
____Up gradient _____Down gradient _____Side gradient
Weather Conditions:
Air Temperature: ^{o}F
Total Well Depth (TWD) = 16.69 1/100 ft
Depth to Ground Water (DGW) = 7.02 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.67 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.54 gallons (5837mL)
4.64 gal (17511mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 25500 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	500	3000	5500	8000	10500	13000	15500	18000
Pumping Rate (mL/pm)	500	500	500	500	500	500	500	500
TIME (military)	1205	1210	1215	1220	1225	1230	1235	1240
pH (S.U.)	6.05	6.07	6.07	6.08	6.08	6.08	6.08	6.08
Specific Conductivity	4.58	4.17	4.20	4.21	4.24	4.22	4.18	4.16
Water Temp (^{o}C)	19.92	21.67	21.94	21.91	22.02	22.04	22.19	22.49
Dissolved Oxygen (mg/L)	0.92	0.86	-2.45	-3.08	-3.49	-3.51	-3.56	-3.79
Oxidation Reduction Potential (ORP) (mV)	-332.2	-355.8	-361.0	-365.1	-368.5	-370.3	-371.0	-370.8
Turbidity (NTU)	16	8.5	3.9	3.2	3.2	2.8	1.4	1.4
Water Level (ft/TOC)	7.03	7.18	7.17	7.18	7.19	7.19	7.21	7.21

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling (Continued)

Site Name SS-17 LTM

Job No. 11-0019 Well ID No. SS17-MW08

FIELD ANALYSES								
Volume Purged (mL)	20500	23000	25500					
Pumping Rate (mL/pm)	500	500	500					
TIME (military)	1245	1250	1255					
pH (S.U.)	6.09	6.09	6.09					
Specific Conductivity	4.16	4.16	4.16					
Water Temp (^{o}C)	22.26	22.27	22.31					
Dissolved Oxygen (mg/L)	-3.46	-2.87	-2.78					
Oxidation Reduction Potential (ORP) (mV)	-372.0	-372.1	-372.4					
Turbidity (NTU)	1.3	0.6	0.20					
Water Level (ft/TOC)	7.23	7.22	7.23					

COMMENTS/OBSERVATIONS:

FIELD ANALYSES								
Volume Purged (mL)								
Pumping Rate (mL/pm)								
TIME (military)								
pH (S.U.)								
Specific Conductivity								
Water Temp (^{o}C)								
Dissolved Oxygen (mg/L)								
Oxidation Reduction Potential (ORP) (mV)								
Turbidity (NTU)								
Water Level (ft/TOC)								

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/07
Field Personnel: B. Parrish / R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW21
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 40°F
Total Well Depth (TWD) = 16.25 1/100 ft
Depth to Ground Water (DGW) = 5.60 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.65 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.70 gallons (6443mL)
5.10 gal (19329 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 32500 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	6500	13000	19500	26000	325000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	1123	1136	1149	1202	1215			
pH (S.U.)	6.24	6.21	6.22	6.22	6.22			
Specific Conductivity	3.41	3.44	3.45	3.46	3.44			
Water Temp (°C)	20.47	20.58	20.60	20.63	20.59			
Dissolved Oxygen (mg/L)	1.00	0.99	0.99	0.98	0.98			
Oxidation Reduction Potential (ORP) (mV)	-381.1	-378.4	-380.3	-381.0	-381.2			
Turbidity (NTU)	33	11	4.8	3.9	2.0			
Water Level (ft/TOC)	6.20	6.21	6.20	6.15	6.15			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/05
Field Personnel: B. Parrish, R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW22
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Overcast/Snow
Air Temperature: 40 °F
Total Well Depth (TWD) = 16.41 1/100 ft
Depth to Ground Water (DGW) = 8.43 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.88 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.26 gallons (4775mL)
3.78 gal (14325 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 20000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	5000	10000	15000	20000				
Pumping Rate (mL/pm)	500	500	500	500				
TIME (military)	1245	1255	1305	1315				
pH (S.U.)	6.61	6.65	6.65	6.66				
Specific Conductivity	7.35	8.21	8.40	8.46				
Water Temp (°C)	19.58	19.78	19.84	19.90				
Dissolved Oxygen (mg/L)	0.25	0.23	0.22	0.21				
Oxidation Reduction Potential (ORP) (mV)	-47.7	-56.0	-61.6	-65.3				
Turbidity (NTU)	40	18	13	15				
Water Level (ft/TOC)	9.08	9.15	9.20	9.24				

COMMENTS/OBSERVATIONS: Strong Fuel odor.

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/02/05
Field Personnel: B. Parrish, R. Kernohan
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW23
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Partly Cloudy
Air Temperature: 44 °F
Total Well Depth (TWD) = 17.14 1/100 ft
Depth to Ground Water (DGW) = 7.60 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.54 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.53 gallons (5799mL)
4.59 gal (17397mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 30000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: _____

FIELD ANALYSES

Volume Purged (mL)	6000	12000	18000	24000	30000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	1100	1112	1124	1136	1148			
pH (S.U.)	6.50	6.52	6.52	6.52	6.51			
Specific Conductivity	8.93	8.84	9.05	9.11	9.19			
Water Temp (°C)	19.84	20.00	20.41	20.78	20.96			
Dissolved Oxygen (mg/L)	0.77	0.69	0.60	0.63	0.60			
Oxidation Reduction Potential (ORP) (mV)	247.7	243.9	239.7	237.1	234.9			
Turbidity (NTU)	26	12	37	35	31			
Water Level (ft/TOC)	9.06	10.09	10.76	11.68	12.84			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/30
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW05
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 69 °F
Total Well Depth (TWD) = 16.19 1/100 ft
Depth to Ground Water (DGW) = 7.28 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.91 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.42 gallons (5375mL)
4.27 gal (16163 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 23000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID Reading 0.0_____
Sample time 0800_____

FIELD ANALYSES								
Volume Purged (mL)	1000	6500	12000	17500	23000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	0710	0721	0732	0743	0754			
pH (S.U.)	6.28	6.56	6.50	6.55	6.54			
Specific Conductivity	3.52	3.55	3.57	3.58	3.60			
Water Temp (°C)	23.61	24.06	24.10	24.07	24.11			
Dissolved Oxygen (mg/L)	-5.09	-2.32	-2.56	-2.68	-2.60			
Oxidation Reduction Potential (ORP) (mV)	-327.4	-345.1	-338.0	-339.8	-340.6			
Turbidity (NTU)	45	19	4.5	1.5	1.1			
Water Level (ft/TOC)	7.43	7.47	7.46	7.47	7.48			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/30
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW07
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 69 °F
Total Well Depth (TWD) = 15.16 1/100 ft
Depth to Ground Water (DGW) = 7.22 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.94 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.27 gallons (4807mL)
3.81 gal (14422 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 16000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID Reading 0.0_____
Sample time 0940_____

FIELD ANALYSES

Volume Purged (mL)	1000	6000	11000	16000				
Pumping Rate (mL/pm)	500	500	500	500				
TIME (military)	0900	0910	0920	0930				
pH (S.U.)	7.07	7.09	7.13	7.11				
Specific Conductivity	2.61	2.60	2.62	2.62				
Water Temp (°C)	23.68	23.46	23.85	23.85				
Dissolved Oxygen (mg/L)	-1.29	-1.03	-.94	-.96				
Oxidation Reduction Potential (ORP) (mV)	-306.2	-314.7	-318.6	-316.7				
Turbidity (NTU)	4.4	5.2	3.1	2.5				
Water Level (ft/TOC)	7.42	7.44	7.45	7.46				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/30
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW08
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 69 °F
Total Well Depth (TWD) = 16.72 1/100 ft
Depth to Ground Water (DGW) = 7.33 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.39 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.50 gallons (5678mL)
4.50 gal (17034 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 19000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID Reading 0.0_____
Sample time 1050_____

FIELD ANALYSES

Volume Purged (mL)	1000	7000	13000	19000				
Pumping Rate (mL/pm)	500	500	500	500				
TIME (military)	1005	1017	1029	1041				
pH (S.U.)	6.79	6.72	6.71	6.70				
Specific Conductivity	3.71	3.72	3.74	3.74				
Water Temp (°C)	23.94	24.05	24.03	24.06				
Dissolved Oxygen (mg/L)	-2.83	-2.27	-2.19	-2.25				
Oxidation Reduction Potential (ORP) (mV)	-351.8	-358.1	-358.8	-358.7				
Turbidity (NTU)	3.2	1.2	.8	.5				
Water Level (ft/TOC)	7.53	7.55	7.56	7.58				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/29
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW21
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 65 °F
Total Well Depth (TWD) = 16.28 1/100 ft
Depth to Ground Water (DGW) = 5.77 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.51 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.68 gallons (4775mL)
5.04 gal (19078 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 27000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: PID Reading 0.0
Sample time 1210

FIELD ANALYSES

Volume Purged (mL)	1000	7500	14000	20500	27000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	1315	1328	1341	1354	1407			
pH (S.U.)	6.74	6.75	6.76	6.77	6.77			
Specific Conductivity	4.20	3.65	3.60	3.59	3.61			
Water Temp (°C)	23.46	23.47	23.41	23.42	23.40			
Dissolved Oxygen (mg/L)	-1.66	-4.24	-6.77	-6.83	-6.57			
Oxidation Reduction Potential (ORP) (mV)	-385.1	-389.3	-391.8	392.6	392.9			
Turbidity (NTU)	110	17	10.2	9.5	7.5			
Water Level (ft/TOC)	6.34	6.27	6.32	6.33	6.34			

COMMENTS/OBSERVATIONS: Strong Fuel odor.

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/29
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW22
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 65 °F
Total Well Depth (TWD) = 16.35 1/100 ft
Depth to Ground Water (DGW) = 8.73 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.62 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.21 gallons (4580mL)
3.66 gal (13854mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 26000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID _Reading 0.0_____
Sample time 1210_____

FIELD ANALYSES

Volume Purged (mL)	1000	6000	1000	16000	21000	26000		
Pumping Rate (mL/pm)	500	500	500	500	500	500		
TIME (military)	1110	1120	1130	1140	1150	1200		
pH (S.U.)	6.91	7.00	7.03	7.04	7.04	7.04		
Specific Conductivity	7.15	7.87	8.28	8.42	8.48	8.51		
Water Temp (°C)	20.83	20.60	20.57	20.56	20.57	20.56		
Dissolved Oxygen (mg/L)	.90	.23	.18	.17	.16	.15		
Oxidation Reduction Potential (ORP) (mV)	-90.3	-96.0	-96.6	-96.4	-96.6	-96.7		
Turbidity (NTU)	95	45	14	5.8	2.8	2.4		
Water Level (ft/TOC)	9.14	9.33	9.41	9.43	9.44	9.45		

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/06/02
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW22
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 65 °F
Total Well Depth (TWD) = 16.35 1/100 ft
Depth to Ground Water (DGW) = 8.74 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.61 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.22 gallons (4618mL)
3.66 gal (13854mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 21000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID _Reading 0.0_____
Sample time 1130_____

FIELD ANALYSES

Volume Purged (mL)	1000	6000	11000	16000	21000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	1045	1055	1105	1115	1125			
pH (S.U.)	7.43	7.46	7.48	7.48	7.49			
Specific Conductivity	7.83	8.09	8.55	8.76	8.78			
Water Temp (°C)	21.40	21.20	20.96	21.02	21.01			
Dissolved Oxygen (mg/L)	.28	.16	.20	.169	.21			
Oxidation Reduction Potential (ORP) (mV)	-123.8	-103.8	-96.0	-96.1	-96.4			
Turbidity (NTU)	13	11	8	8	4			
Water Level (ft/TOC)	9.38	9.55	9.52	9.50	9.49			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/29
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW23
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 65 °F
Total Well Depth (TWD) = 17.18 1/100 ft
Depth to Ground Water (DGW) = 7.88 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.30 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.48 gallons (5602mL)
4.46 gal (16883 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 25000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedicated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID Reading 0.0_____
Sample time 1000_____

FIELD ANALYSES

Volume Purged (mL)	1000	7000	13000	19000	25000			
Pumping Rate (mL/pm)	500	500	500	500	500			
TIME (military)	0815	0839	0903	0927	0951			
pH (S.U.)	6.75	6.80	6.87	6.79	6.84			
Specific Conductivity	6.37	6.05	6.18	6.15	6.14			
Water Temp (°C)	21.45	21.41	21.59	21.70	21.74			
Dissolved Oxygen (mg/L)	1.18	.43	.28	.31	.30			
Oxidation Reduction Potential (ORP) (mV)	36.7	-11.1	-13.0	-9.5	-14.4			
Turbidity (NTU)	11	1.2	1.1	1.0	.85			
Water Level (ft/TOC)	8.32	9.37	10.14	10.41	10.59			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2014/05/29
Field Personnel: K Fuller and B Parrish
Site Name: SS-17
Job No. : 11-0019
Well ID #: SS17-MW23
____Up gradient _____Down gradient _____Side gradient
Weather Conditions: Clear
Air Temperature: 65 °F
Total Well Depth (TWD) = 17.18 1/100 ft
Depth to Ground Water (DGW) = 7.88 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.30 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.48 gallons (5602mL)
4.46 gal (16883 mL) = Standard Evacuation Volume
Method of Well Evacuation: GeoPump
Method of Sample Collection: ¼ Polyethylene Tubing
Total Volume of Water Removed: 19000 mL

Casing Diameter: 2 inches
Casing Material: PVC
Measuring Point Elevation_____1/100 ft
Height of Riser (above land surface)_____1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval_____1/100 ft
Dedictated Pump or Bailer YES___ NO_X__ Type_____
Steel Guard Pipe Around Casing YES__X_ NO____
Locking Cap YES__X_ NO____
Protective Post/Abutment YES___ NO__X__
Well Integrity Satisfactory YES__X_ NO____
Well Yield LOW_____ MODERATE__X___ HIGH_____
Comments/Observations: ___PID Reading 0.0_____
Sample time 1345_____

FIELD ANALYSES								
Volume Purged (mL)	1000	7000	13000	19000				
Pumping Rate (mL/pm)	500	500	500	500				
TIME (military)	1220	1244	1308	1332				
pH (S.U.)	7.33	7.34	7.36	7.32				
Specific Conductivity	6.70	5.15	5.22	5.24				
Water Temp (°C)	23.08	22.73	22.53	22.60				
Dissolved Oxygen (mg/L)	.56	.54	.52	.55				
Oxidation Reduction Potential (ORP) (mV)	-48.9	-7.2	-2.4	1.2				
Turbidity (NTU)	5.1	.8	.1	0				
Water Level (ft/TOC)	8.05	920	10.12	12.80				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

APPENDIX D

Laboratory Analytical Reports

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Southeast ACCUTEST LABORATORIES

11/05/13

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA7028

Sampling Date: 08/05/13

Report to:

Nation View

Fermin.Esquibel@nationview.net

ATTN: Fermin Esquibel

Total number of pages in report: **70**

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), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

Nation View

Job No: FA7028

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7028-1	08/05/13	08:35	BP	08/06/13	AQ	Ground Water	SS17-MW23
FA7028-1F	08/05/13	08:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW23
FA7028-2	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-3	08/05/13	08:35	BP	08/06/13	AQ	Ground Water	SS17-MW23-A
FA7028-3F	08/05/13	08:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW23-A
FA7028-4	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-5	08/05/13	10:35	BP	08/06/13	AQ	Ground Water	SS17-MW22
FA7028-5F	08/05/13	10:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW22
FA7028-6	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-7	08/05/13	12:20	BP	08/06/13	AQ	Ground Water	SS17-MW21
FA7028-7F	08/05/13	12:20	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW21
FA7028-8	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA7028
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/05/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7028-1	**SS17-MW23**					
Benzene		351	5.0	1.1	ug/l	SW846 8260B
Ethylbenzene		1.8 J	5.0	1.5	ug/l	SW846 8260B
Toluene		2.2 J	5.0	1.0	ug/l	SW846 8260B
Phenol		4.3 J	4.8	0.53	ug/l	SW846 8270D
2,6-Dinitrotoluene		1.9 J	4.8	0.77	ug/l	SW846 8270D
1-Methylnaphthalene		1.0 J	4.8	0.68	ug/l	SW846 8270D
Naphthalene		1.1 J	4.8	0.61	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.729	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		3.79	2.4	0.96	mg/l	SW846 8015C
TPH (> C22-C36)		1.06 J	2.4	0.96	mg/l	SW846 8015C
Iron		15600	300	29	ug/l	SW846 6010C
Manganese		3220	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		6.4	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		102	20	5.3	mg/l	SM19 5220C
Iron, Ferric [a]		10.8	0.80	0.19	mg/l	SM18 3500FED M
Iron, Ferrous [b]		4.8	0.50	0.16	mg/l	SM18 3500FED
Nitrogen, Ammonia		2.0	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		5.0	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		6520	500	50	mg/l	SM19 2540C
Sulfate		3930	100	30	mg/l	EPA 300/SW846 9056A
FA7028-1F	**SS17-MW23**					
Manganese		2880	15	0.70	ug/l	SW846 6010C
FA7028-2	**TRIP BLANK**					
Methylene chloride		3.6 J	5.0	2.0	ug/l	SW846 8260B
FA7028-3	**SS17-MW23-A**					
Benzene		332	5.0	1.1	ug/l	SW846 8260B
Ethylbenzene		1.7 J	5.0	1.5	ug/l	SW846 8260B
Toluene		2.1 J	5.0	1.0	ug/l	SW846 8260B
o-Xylene		1.0 J	5.0	1.0	ug/l	SW846 8260B
2,4-Dimethylphenol		0.90 J	4.8	0.74	ug/l	SW846 8270D
Phenol		3.4 J	4.8	0.53	ug/l	SW846 8270D
2,6-Dinitrotoluene		1.2 J	4.8	0.77	ug/l	SW846 8270D
1-Methylnaphthalene		0.93 J	4.8	0.68	ug/l	SW846 8270D
Naphthalene		0.89 J	4.8	0.61	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.745	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		5.06	1.2	0.48	mg/l	SW846 8015C
TPH (> C22-C36)		1.24	1.2	0.48	mg/l	SW846 8015C

Summary of Hits

Job Number: FA7028
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		26700	300	29	ug/l	SW846 6010C
Manganese		3180	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		7.7	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		63.0	20	5.3	mg/l	SM19 5220C
Iron, Ferric [a]		23.3	0.80	0.19	mg/l	SM18 3500FED M
Iron, Ferrous [b]		3.4	0.50	0.16	mg/l	SM18 3500FED
Nitrogen, Ammonia		2.1	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		4.7	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		5870	500	50	mg/l	SM19 2540C
Sulfate		3800	100	30	mg/l	EPA 300/SW846 9056A
FA7028-3F	**SS17-MW23-A**					
Manganese		3010	15	0.70	ug/l	SW846 6010C
FA7028-4	**TRIP BLANK**					
Methyl chloride		0.72 J	2.0	0.50	ug/l	SW846 8260B
Toluene		0.25 J	1.0	0.20	ug/l	SW846 8260B
FA7028-5	**SS17-MW22**					
Benzene		0.25 J	1.0	0.21	ug/l	SW846 8260B
1,2-Dichloroethane		5.2	1.0	0.22	ug/l	SW846 8260B
p-Isopropyltoluene		1.2	1.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.21 J	2.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0535 J	0.10	0.050	mg/l	SW846 8015C
TPH (> C22-C36)		0.143 J	0.24	0.096	mg/l	SW846 8015C
Iron		1740	300	29	ug/l	SW846 6010C
Manganese		5220	15	0.70	ug/l	SW846 6010C
Chemical Oxygen Demand		29.1	20	5.3	mg/l	SM19 5220C
Iron, Ferric [a]		0.79	0.40	0.059	mg/l	SM18 3500FED M
Iron, Ferrous [b]		0.95	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.11	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.3	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7520	500	50	mg/l	SM19 2540C
Sulfate		3540	200	60	mg/l	EPA 300/SW846 9056A
FA7028-5F	**SS17-MW22**					
Manganese		4840	15	0.70	ug/l	SW846 6010C
FA7028-6	**TRIP BLANK**					
Toluene		0.27 J	1.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: FA7028
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7028-7	**SS17-MW21**					
Benzene [c]		49800	500	110	ug/l	SW846 8260B
Ethylbenzene [c]		7720	500	150	ug/l	SW846 8260B
Isopropylbenzene [c]		230 J	500	100	ug/l	SW846 8260B
n-Propylbenzene [c]		916	500	110	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [c]		4450	1000	100	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [c]		1260	1000	100	ug/l	SW846 8260B
Toluene [d]		67800	1000	200	ug/l	SW846 8260B
m,p-Xylene [c]		21400	1000	150	ug/l	SW846 8260B
o-Xylene [c]		9490	500	100	ug/l	SW846 8260B
2,4-Dimethylphenol [e]		14.7 J	48	7.4	ug/l	SW846 8270D
2-Methylphenol [e]		45.4 J	48	6.9	ug/l	SW846 8270D
3&4-Methylphenol [e]		313	48	13	ug/l	SW846 8270D
Phenol [e]		50.9	48	5.3	ug/l	SW846 8270D
1-Methylnaphthalene [e]		42.6 J	48	6.8	ug/l	SW846 8270D
2-Methylnaphthalene [e]		88.8	48	6.6	ug/l	SW846 8270D
Naphthalene [e]		277	48	6.1	ug/l	SW846 8270D
TPH-GRO (C6-C10) [f]		290	50	25	mg/l	SW846 8015C
TPH (C10-C22)		9.32	1.2	0.48	mg/l	SW846 8015C
Iron		882	300	29	ug/l	SW846 6010C
Manganese		618	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		64.3	40	40	mg/l	SM19 5210B
Chemical Oxygen Demand		255	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		36.2	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [a]		0.64	0.40	0.059	mg/l	SM18 3500FED M
Iron, Ferrous [b]		0.24	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.31	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.8	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3740	200	20	mg/l	SM19 2540C
Sulfate		1920	50	15	mg/l	EPA 300/SW846 9056A
FA7028-7F	**SS17-MW21**					
Manganese		680	15	0.70	ug/l	SW846 6010C

FA7028-8 **TRIP BLANK**

No hits reported in this sample.

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(d) Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample vial(s)

Summary of Hits

Job Number: FA7028
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/05/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

contained significant headspace; reported results are considered minimum values.
(e) Dilution required due to matrix interference.
(f) Sample was not preserved to a pH < 2.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18349.D	5	08/14/13	KW	n/a	n/a	VZ754
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 [a]	ND	100	35	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	351	5.0	1.1	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.1	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	1.7	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.5	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	1.3	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	6.4	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.2	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	ND	5.0	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.1	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.8	5.0	1.5	ug/l	J
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	11	ug/l	
74-83-9	Methyl bromide	ND	10	3.9	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.7	ug/l	
75-09-2	Methylene chloride	ND	25	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	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	1.0	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	2.8	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	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	2.2	5.0	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	16	ug/l	
	m,p-Xylene	ND	10	1.5	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside 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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029858.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	4.3	4.8	0.53	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	1.9	4.8	0.77	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	1.0	4.8	0.68	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	1.1	4.8	0.61	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		14-67%
4165-62-2	Phenol-d5	37%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	92%		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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123313.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.729	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		70-131%
98-08-8	aaa-Trifluorotoluene	88%		69-143%

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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37686.D	10	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	3.79	2.4	0.96	mg/l	
	TPH (> C22-C36)	1.06	2.4	0.96	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	15600	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3220	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	6.4	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	102	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	10.8	0.80	0.19	mg/l	1	08/07/13 10:37	LM	SM18 3500FED M
Iron, Ferrous [b]	4.8	0.50	0.16	mg/l	5	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	2.0	0.10	0.030	mg/l	1	08/09/13 12:20	VK	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	08/06/13 12:24	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	5.0	0.53	0.17	mg/l	1	08/10/13 08:58	MG	EPA 351.2
Solids, Total Dissolved	6520	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3930	100	30	mg/l	50	08/06/13 12:24	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23		
Lab Sample ID:	FA7028-1F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2880	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18350.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	3.6	5.0	2.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18351.D	5	08/14/13	KW	n/a	n/a	VZ754
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 [a]	ND	100	35	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	332	5.0	1.1	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.1	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	1.7	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.5	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	1.3	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	6.4	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.2	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	ND	5.0	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.1	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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	5.0	1.5	ug/l	J
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	11	ug/l	
74-83-9	Methyl bromide	ND	10	3.9	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.7	ug/l	
75-09-2	Methylene chloride	ND	25	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	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	1.0	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	2.8	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	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	2.1	5.0	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	16	ug/l	
	m,p-Xylene	ND	10	1.5	ug/l	
95-47-6	o-Xylene	1.0	5.0	1.0	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029859.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	0.90	4.8	0.74	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	3.4	4.8	0.53	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	1.2	4.8	0.77	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	0.93	4.8	0.68	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	0.89	4.8	0.61	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-67%
4165-62-2	Phenol-d5	34%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123314.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.745	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-131%
98-08-8	aaa-Trifluorotoluene	106%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37687.D	5	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	5.06	1.2	0.48	mg/l	
	TPH (> C22-C36)	1.24	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	26700	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3180	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	7.7	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	63.0	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	23.3	0.80	0.19	mg/l	1	08/07/13 10:42	LM	SM18 3500FED M
Iron, Ferrous [b]	3.4	0.50	0.16	mg/l	5	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	2.1	0.10	0.030	mg/l	1	08/09/13 12:21	VK	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	08/06/13 12:40	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	4.7	0.53	0.17	mg/l	1	08/10/13 09:00	MG	EPA 351.2
Solids, Total Dissolved	5870	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3800	100	30	mg/l	50	08/06/13 12:40	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	3010	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18352.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	0.72	2.0	0.50	ug/l	J
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.25	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18353.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.25	1.0	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	5.2	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	1.2	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.21	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029860.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.68	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	ND	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-67%
4165-62-2	Phenol-d5	36%		10-50%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123296.D	1	08/07/13	CP	n/a	n/a	GCD5032
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0535	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-131%
98-08-8	aaa-Trifluorotoluene	103%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37689.D	1	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	0.143	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1740	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5220	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	40 U	40	40	mg/l	20	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	29.1	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.79	0.40	0.059	mg/l	1	08/07/13 10:47	LM	SM18 3500FED M
Iron, Ferrous [b]	0.95	0.10	0.030	mg/l	1	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	1	08/09/13 12:22	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	08/06/13 12:56	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	08/10/13 09:01	MG	EPA 351.2
Solids, Total Dissolved	7520	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3540	200	60	mg/l	100	08/06/13 12:56	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22		
Lab Sample ID:	FA7028-5F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4840	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18354.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.27	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z18355.D	500	08/14/13	KW	n/a	n/a	VZ754
Run #2 [b]	Z18374.D	1000	08/15/13	KW	n/a	n/a	VZ755

	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	13000	5000	ug/l	
107-02-8	Acrolein [c]	ND	10000	3500	ug/l	
107-13-1	Acrylonitrile	ND	5000	1000	ug/l	
71-43-2	Benzene	49800	500	110	ug/l	
108-86-1	Bromobenzene	ND	500	110	ug/l	
74-97-5	Bromochloromethane	ND	500	110	ug/l	
75-27-4	Bromodichloromethane	ND	500	100	ug/l	
75-25-2	Bromoform	ND	500	170	ug/l	
104-51-8	n-Butylbenzene	ND	500	100	ug/l	
135-98-8	sec-Butylbenzene	ND	500	110	ug/l	
98-06-6	tert-Butylbenzene	ND	500	150	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
67-66-3	Chloroform	ND	500	130	ug/l	
95-49-8	o-Chlorotoluene	ND	500	110	ug/l	
106-43-4	p-Chlorotoluene	ND	500	100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	640	ug/l	
75-15-0	Carbon disulfide	ND	1000	250	ug/l	
56-23-5	Carbon tetrachloride	ND	500	160	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	110	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	120	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	360	ug/l	
106-93-4	1,2-Dibromoethane	ND	500	150	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	130	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	130	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	120	ug/l	
124-48-1	Dibromochloromethane	ND	500	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	250	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	120	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	110	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	500	130	ug/l	
95-50-1	o-Dichlorobenzene	ND	500	110	ug/l	
106-46-7	p-Dichlorobenzene	ND	500	100	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	110	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	100	ug/l	
100-41-4	Ethylbenzene	7720	500	150	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	1000	250	ug/l	
98-82-8	Isopropylbenzene	230	500	100	ug/l	J
99-87-6	p-Isopropyltoluene	ND	500	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2500	1100	ug/l	
74-83-9	Methyl bromide	ND	1000	390	ug/l	
74-87-3	Methyl chloride	ND	1000	250	ug/l	
74-95-3	Methylene bromide	ND	1000	170	ug/l	
75-09-2	Methylene chloride	ND	2500	1000	ug/l	
78-93-3	Methyl ethyl ketone	ND	2500	1600	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	110	ug/l	
91-20-3	Naphthalene	ND	2500	500	ug/l	
103-65-1	n-Propylbenzene	916	500	110	ug/l	
100-42-5	Styrene	ND	500	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	120	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	120	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	500	250	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1000	280	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	500	250	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4450	1000	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1260	1000	100	ug/l	
127-18-4	Tetrachloroethylene	ND	500	160	ug/l	
108-88-3	Toluene	67800 [d]	1000	200	ug/l	
79-01-6	Trichloroethylene	ND	500	160	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	250	ug/l	
75-01-4	Vinyl chloride	ND	500	220	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1600	ug/l	
	m,p-Xylene	21400	1000	150	ug/l	
95-47-6	o-Xylene	9490	500	100	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	103%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample vial(s) contained significant headspace; reported results are considered minimum values.
(c) Associated BS recovery outside control limits.
(d) 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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029863.D	10	08/09/13	FS	08/07/13	OP48091	SX1424
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	480	96	ug/l	
95-57-8	2-Chlorophenol	ND	48	6.8	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	48	7.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	6.7	ug/l	
105-67-9	2,4-Dimethylphenol	14.7	48	7.4	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	240	50	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	96	14	ug/l	
95-48-7	2-Methylphenol	45.4	48	6.9	ug/l	J
	3&4-Methylphenol	313	48	13	ug/l	
88-75-5	2-Nitrophenol	ND	48	6.5	ug/l	
100-02-7	4-Nitrophenol	ND	240	48	ug/l	
87-86-5	Pentachlorophenol	ND	240	48	ug/l	
108-95-2	Phenol	50.9	48	5.3	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	8.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	7.5	ug/l	
83-32-9	Acenaphthene	ND	48	6.7	ug/l	
208-96-8	Acenaphthylene	ND	48	6.7	ug/l	
62-53-3	Aniline	ND	48	7.5	ug/l	
120-12-7	Anthracene	ND	48	7.2	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	7.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	6.4	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	6.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	48	7.6	ug/l	
85-68-7	Butyl benzyl phthalate	ND	48	6.8	ug/l	
100-51-6	Benzyl Alcohol	ND	48	9.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	7.0	ug/l	
106-47-8	4-Chloroaniline	ND	48	6.6	ug/l	
86-74-8	Carbazole	ND	48	5.0	ug/l	
218-01-9	Chrysene	ND	48	5.6	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	48	6.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.9	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	7.6	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	48	8.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	6.5	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	6.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	7.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	6.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	6.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	7.7	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	7.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	5.6	ug/l	
132-64-9	Dibenzofuran	ND	48	7.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	48	9.6	ug/l	
117-84-0	Di-n-octyl phthalate	ND	48	9.6	ug/l	
84-66-2	Diethyl phthalate	ND	48	9.6	ug/l	
131-11-3	Dimethyl phthalate	ND	48	7.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	11	ug/l	
206-44-0	Fluoranthene	ND	48	5.6	ug/l	
86-73-7	Fluorene	ND	48	7.3	ug/l	
118-74-1	Hexachlorobenzene	ND	48	6.6	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	48	9.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	7.6	ug/l	
67-72-1	Hexachloroethane [b]	ND	48	7.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	5.5	ug/l	
78-59-1	Isophorone	ND	48	6.1	ug/l	
90-12-0	1-Methylnaphthalene	42.6	48	6.8	ug/l	J
91-57-6	2-Methylnaphthalene	88.8	48	6.6	ug/l	
88-74-4	2-Nitroaniline	ND	48	7.2	ug/l	
99-09-2	3-Nitroaniline	ND	48	6.2	ug/l	
100-01-6	4-Nitroaniline	ND	48	9.3	ug/l	
91-20-3	Naphthalene	277	48	6.1	ug/l	
98-95-3	Nitrobenzene	ND	48	6.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	6.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	48	8.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	9.6	ug/l	
85-01-8	Phenanthrene	ND	48	6.8	ug/l	
129-00-0	Pyrene	ND	48	6.5	ug/l	
110-86-1	Pyridine	ND	96	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	5.8	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-67%
4165-62-2	Phenol-d5	40%		10-50%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	94%		42-108%
321-60-8	2-Fluorobiphenyl	87%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

(a) Dilution required due to matrix interference.
(b) 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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD123323.D	500	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	290	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		70-131%
98-08-8	aaa-Trifluorotoluene	84%		69-143%

(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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37691.D	5	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	9.32	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	882	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	618	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	64.3	40	40	mg/l	20	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	255	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	36.2	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.64	0.40	0.059	mg/l	1	08/07/13 11:01	LM	SM18 3500FED M
Iron, Ferrous [b]	0.24	0.10	0.030	mg/l	1	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	0.31	0.10	0.030	mg/l	1	08/14/13 13:43	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/06/13 13:12	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	08/10/13 09:02	MG	EPA 351.2
Solids, Total Dissolved	3740	200	20	mg/l	2	08/09/13	KC	SM19 2540C
Sulfate	1920	50	15	mg/l	25	08/07/13 10:34	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW21		
Lab Sample ID:	FA7028-7F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	680	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18356.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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:

- Chain of Custody

NATIONVIEW

FA7028

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08052013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
~~SS-23~~ SS17-MW25		8-May-13	835	-	N		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x									
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

Sample Analysis Requested (5)

Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Campbell (ALSA)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 7.96394E+11

Delivery Location:

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 3.0 2.6 2.8

4.1

4

FA7028: Chain of Custody

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NATIONVIEW

Chain of Custody and Analytical Request

FA7028

Page: 1 of 1
Project No: 11.0019
COC Number(1): 08052013-2
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW23-A		8-May-13	835	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x	x								
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Coone (AHA)	8.6.13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment:
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 796393790009
Delivery Location:
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

Project No: 11.0019

COC Number(1): 08052013-3

LIMS Number:

Chain of Custody and Analytical Request FA7028

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: B.Parrish

Field Sample ID (30 Characters Max)	BRPIMS 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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW22		8-May-13	1035	-	FD		WG	18	x	x	x	x	x	x	x	x	x	x								
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Conne (Alst)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796393844561

Delivery Location:

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

FA7028: Chain of Custody

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NATIONVIEW

Chain of Custody and Analytical Request

FA 7028

Page: 1 of 1
Project No: 11.0019
COC Number(1): 08052013-4
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW21		8-May-13	1220	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x									
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1. B. Parrish	8/5/2013	1500	1. FX		07:15
2. FX			2. J. Comer (AVS)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment:
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 796393926749
Delivery Location:
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: FA 7028 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 8-6-13 09:15 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7963 9372 5048

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: 2.2 2.6 2.2 2.4
- [ ] CORRECTED TEMPS: 2.8 3.0 2.6 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [X] 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 (8270) BROKEN FOR SAMPLE #1
" " " (8015 DRO) " " " #5
TOTAL METAL FOR SAMPLE #5 RECEIVED N/P WE PRESERVE WITH 2 ml HNO3 P853

TECHNICIAN SIGNATURE/DATE K 8-6-13 REVIEWER SIGNATURE/DATE P Willi 08-06-13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA7028: Chain of Custody

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Sample Summary

Nation View

Job No: FA7028

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7028-1	08/05/13	08:35	BP	08/06/13	AQ	Ground Water	SS17-MW23
FA7028-1F	08/05/13	08:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW23
FA7028-2	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-3	08/05/13	08:35	BP	08/06/13	AQ	Ground Water	SS17-MW23-A
FA7028-3F	08/05/13	08:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW23-A
FA7028-4	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-5	08/05/13	10:35	BP	08/06/13	AQ	Ground Water	SS17-MW22
FA7028-5F	08/05/13	10:35	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW22
FA7028-6	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK
FA7028-7	08/05/13	12:20	BP	08/06/13	AQ	Ground Water	SS17-MW21
FA7028-7F	08/05/13	12:20	BP	08/06/13	AQ	Groundwater Filtered	SS17-MW21
FA7028-8	08/05/13	00:00	BP	08/06/13	AQ	Trip Blank Water	TRIP BLANK

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18349.D	5	08/14/13	KW	n/a	n/a	VZ754
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 [a]	ND	100	35	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	351	5.0	1.1	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.1	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	1.7	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.5	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	1.3	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	6.4	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.2	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	ND	5.0	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.1	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.8	5.0	1.5	ug/l	J
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	11	ug/l	
74-83-9	Methyl bromide	ND	10	3.9	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.7	ug/l	
75-09-2	Methylene chloride	ND	25	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	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	1.0	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	2.8	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	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	2.2	5.0	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	16	ug/l	
	m,p-Xylene	ND	10	1.5	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029858.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	4.3	4.8	0.53	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	1.9	4.8	0.77	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	1.0	4.8	0.68	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	1.1	4.8	0.61	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		14-67%
4165-62-2	Phenol-d5	37%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	92%		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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123313.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.729	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		70-131%
98-08-8	aaa-Trifluorotoluene	88%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37686.D	10	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	3.79	2.4	0.96	mg/l	
	TPH (> C22-C36)	1.06	2.4	0.96	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	15600	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3220	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW23		
Lab Sample ID:	FA7028-1	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	6.4	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	102	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	10.8	0.80	0.19	mg/l	1	08/07/13 10:37	LM	SM18 3500FED M
Iron, Ferrous [b]	4.8	0.50	0.16	mg/l	5	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	2.0	0.10	0.030	mg/l	1	08/09/13 12:20	VK	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	08/06/13 12:24	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	5.0	0.53	0.17	mg/l	1	08/10/13 08:58	MG	EPA 351.2
Solids, Total Dissolved	6520	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3930	100	30	mg/l	50	08/06/13 12:24	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23		
Lab Sample ID:	FA7028-1F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2880	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18350.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	3.6	5.0	2.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-2	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18351.D	5	08/14/13	KW	n/a	n/a	VZ754
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 [a]	ND	100	35	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	332	5.0	1.1	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.1	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	1.7	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.5	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	1.3	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	6.4	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.2	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	ND	5.0	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.1	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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	5.0	1.5	ug/l	J
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	11	ug/l	
74-83-9	Methyl bromide	ND	10	3.9	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.7	ug/l	
75-09-2	Methylene chloride	ND	25	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	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	1.0	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	2.8	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	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	2.1	5.0	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	16	ug/l	
	m,p-Xylene	ND	10	1.5	ug/l	
95-47-6	o-Xylene	1.0	5.0	1.0	ug/l	J

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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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029859.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	0.90	4.8	0.74	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	3.4	4.8	0.53	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	1.2	4.8	0.77	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	0.93	4.8	0.68	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	0.89	4.8	0.61	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	ug/l	

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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-67%
4165-62-2	Phenol-d5	34%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123314.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.745	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-131%
98-08-8	aaa-Trifluorotoluene	106%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37687.D	5	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	5.06	1.2	0.48	mg/l	
	TPH (> C22-C36)	1.24	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	26700	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3180	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	7.7	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	63.0	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	23.3	0.80	0.19	mg/l	1	08/07/13 10:42	LM	SM18 3500FED M
Iron, Ferrous [b]	3.4	0.50	0.16	mg/l	5	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	2.1	0.10	0.030	mg/l	1	08/09/13 12:21	VK	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	08/06/13 12:40	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	4.7	0.53	0.17	mg/l	1	08/10/13 09:00	MG	EPA 351.2
Solids, Total Dissolved	5870	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3800	100	30	mg/l	50	08/06/13 12:40	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23-A		
Lab Sample ID:	FA7028-3F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	3010	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18352.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	0.72	2.0	0.50	ug/l	J
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.25	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-4	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18353.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.25	1.0	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	5.2	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	1.2	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.21	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029860.D	1	08/09/13	FS	08/07/13	OP48091	SX1424
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene [a]	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane [a]	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.68	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	ND	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-67%
4165-62-2	Phenol-d5	36%		10-50%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123296.D	1	08/07/13	CP	n/a	n/a	GCD5032
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0535	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-131%
98-08-8	aaa-Trifluorotoluene	103%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37689.D	1	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	0.143	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1740	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5220	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW22		
Lab Sample ID:	FA7028-5	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	40 U	40	40	mg/l	20	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	29.1	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.79	0.40	0.059	mg/l	1	08/07/13 10:47	LM	SM18 3500FED M
Iron, Ferrous [b]	0.95	0.10	0.030	mg/l	1	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	1	08/09/13 12:22	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	08/06/13 12:56	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	08/10/13 09:01	MG	EPA 351.2
Solids, Total Dissolved	7520	500	50	mg/l	5	08/08/13 14:25	KC	SM19 2540C
Sulfate	3540	200	60	mg/l	100	08/06/13 12:56	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22		
Lab Sample ID:	FA7028-5F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4840	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18354.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.27	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-6	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z18355.D	500	08/14/13	KW	n/a	n/a	VZ754
Run #2 [b]	Z18374.D	1000	08/15/13	KW	n/a	n/a	VZ755

	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	13000	5000	ug/l	
107-02-8	Acrolein [c]	ND	10000	3500	ug/l	
107-13-1	Acrylonitrile	ND	5000	1000	ug/l	
71-43-2	Benzene	49800	500	110	ug/l	
108-86-1	Bromobenzene	ND	500	110	ug/l	
74-97-5	Bromochloromethane	ND	500	110	ug/l	
75-27-4	Bromodichloromethane	ND	500	100	ug/l	
75-25-2	Bromoform	ND	500	170	ug/l	
104-51-8	n-Butylbenzene	ND	500	100	ug/l	
135-98-8	sec-Butylbenzene	ND	500	110	ug/l	
98-06-6	tert-Butylbenzene	ND	500	150	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
67-66-3	Chloroform	ND	500	130	ug/l	
95-49-8	o-Chlorotoluene	ND	500	110	ug/l	
106-43-4	p-Chlorotoluene	ND	500	100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	640	ug/l	
75-15-0	Carbon disulfide	ND	1000	250	ug/l	
56-23-5	Carbon tetrachloride	ND	500	160	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	110	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	120	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	360	ug/l	
106-93-4	1,2-Dibromoethane	ND	500	150	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	130	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	130	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	120	ug/l	
124-48-1	Dibromochloromethane	ND	500	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	250	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	120	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	110	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	500	130	ug/l	
95-50-1	o-Dichlorobenzene	ND	500	110	ug/l	
106-46-7	p-Dichlorobenzene	ND	500	100	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	110	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	100	ug/l	
100-41-4	Ethylbenzene	7720	500	150	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	1000	250	ug/l	
98-82-8	Isopropylbenzene	230	500	100	ug/l	J
99-87-6	p-Isopropyltoluene	ND	500	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2500	1100	ug/l	
74-83-9	Methyl bromide	ND	1000	390	ug/l	
74-87-3	Methyl chloride	ND	1000	250	ug/l	
74-95-3	Methylene bromide	ND	1000	170	ug/l	
75-09-2	Methylene chloride	ND	2500	1000	ug/l	
78-93-3	Methyl ethyl ketone	ND	2500	1600	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	110	ug/l	
91-20-3	Naphthalene	ND	2500	500	ug/l	
103-65-1	n-Propylbenzene	916	500	110	ug/l	
100-42-5	Styrene	ND	500	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	120	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	120	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	500	250	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1000	280	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	500	250	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4450	1000	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1260	1000	100	ug/l	
127-18-4	Tetrachloroethylene	ND	500	160	ug/l	
108-88-3	Toluene	67800 d	1000	200	ug/l	
79-01-6	Trichloroethylene	ND	500	160	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	250	ug/l	
75-01-4	Vinyl chloride	ND	500	220	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1600	ug/l	
	m,p-Xylene	21400	1000	150	ug/l	
95-47-6	o-Xylene	9490	500	100	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	103%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample vial(s) contained significant headspace; reported results are considered minimum values.
(c) Associated BS recovery outside control limits.
(d) 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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029863.D	10	08/09/13	FS	08/07/13	OP48091	SX1424
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	480	96	ug/l	
95-57-8	2-Chlorophenol	ND	48	6.8	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	48	7.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	6.7	ug/l	
105-67-9	2,4-Dimethylphenol	14.7	48	7.4	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	240	50	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	96	14	ug/l	
95-48-7	2-Methylphenol	45.4	48	6.9	ug/l	J
	3&4-Methylphenol	313	48	13	ug/l	
88-75-5	2-Nitrophenol	ND	48	6.5	ug/l	
100-02-7	4-Nitrophenol	ND	240	48	ug/l	
87-86-5	Pentachlorophenol	ND	240	48	ug/l	
108-95-2	Phenol	50.9	48	5.3	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	8.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	7.5	ug/l	
83-32-9	Acenaphthene	ND	48	6.7	ug/l	
208-96-8	Acenaphthylene	ND	48	6.7	ug/l	
62-53-3	Aniline	ND	48	7.5	ug/l	
120-12-7	Anthracene	ND	48	7.2	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	7.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	6.4	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	6.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	48	7.6	ug/l	
85-68-7	Butyl benzyl phthalate	ND	48	6.8	ug/l	
100-51-6	Benzyl Alcohol	ND	48	9.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	7.0	ug/l	
106-47-8	4-Chloroaniline	ND	48	6.6	ug/l	
86-74-8	Carbazole	ND	48	5.0	ug/l	
218-01-9	Chrysene	ND	48	5.6	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	48	6.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.9	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	7.6	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	48	8.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	6.5	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	6.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	7.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	6.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	6.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	7.7	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	7.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	5.6	ug/l	
132-64-9	Dibenzofuran	ND	48	7.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	48	9.6	ug/l	
117-84-0	Di-n-octyl phthalate	ND	48	9.6	ug/l	
84-66-2	Diethyl phthalate	ND	48	9.6	ug/l	
131-11-3	Dimethyl phthalate	ND	48	7.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	11	ug/l	
206-44-0	Fluoranthene	ND	48	5.6	ug/l	
86-73-7	Fluorene	ND	48	7.3	ug/l	
118-74-1	Hexachlorobenzene	ND	48	6.6	ug/l	
87-68-3	Hexachlorobutadiene [b]	ND	48	9.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	7.6	ug/l	
67-72-1	Hexachloroethane [b]	ND	48	7.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	5.5	ug/l	
78-59-1	Isophorone	ND	48	6.1	ug/l	
90-12-0	1-Methylnaphthalene	42.6	48	6.8	ug/l	J
91-57-6	2-Methylnaphthalene	88.8	48	6.6	ug/l	
88-74-4	2-Nitroaniline	ND	48	7.2	ug/l	
99-09-2	3-Nitroaniline	ND	48	6.2	ug/l	
100-01-6	4-Nitroaniline	ND	48	9.3	ug/l	
91-20-3	Naphthalene	277	48	6.1	ug/l	
98-95-3	Nitrobenzene	ND	48	6.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	6.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	48	8.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	9.6	ug/l	
85-01-8	Phenanthrene	ND	48	6.8	ug/l	
129-00-0	Pyrene	ND	48	6.5	ug/l	
110-86-1	Pyridine	ND	96	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	5.8	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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-67%
4165-62-2	Phenol-d5	40%		10-50%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	94%		42-108%
321-60-8	2-Fluorobiphenyl	87%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

(a) Dilution required due to matrix interference.
(b) 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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD123323.D	500	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	290	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		70-131%
98-08-8	aaa-Trifluorotoluene	84%		69-143%

(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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37691.D	5	08/21/13	SJL	08/07/13	OP48096	GYY1383
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)	9.32	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	882	300	29	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	618	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	SS17-MW21		
Lab Sample ID:	FA7028-7	**Date Sampled:**	08/05/13
Matrix:	AQ - Ground Water	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	64.3	40	40	mg/l	20	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	255	20	5.3	mg/l	1	08/07/13 09:45	LE	SM19 5220C
Hydrogen Sulfide	36.2	1.0	0.50	mg/l	1	08/06/13 14:15	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.64	0.40	0.059	mg/l	1	08/07/13 11:01	LM	SM18 3500FED M
Iron, Ferrous [b]	0.24	0.10	0.030	mg/l	1	08/06/13 11:55	LE	SM18 3500FED
Nitrogen, Ammonia	0.31	0.10	0.030	mg/l	1	08/14/13 13:43	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/06/13 13:12	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	08/10/13 09:02	MG	EPA 351.2
Solids, Total Dissolved	3740	200	20	mg/l	2	08/09/13	KC	SM19 2540C
Sulfate	1920	50	15	mg/l	25	08/07/13 10:34	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW21		
Lab Sample ID:	FA7028-7F	**Date Sampled:**	08/05/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/06/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	680	15	0.70	ug/l	1	08/06/13	08/07/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10956
(2) Prep QC Batch: MP25623

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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z18356.D	1	08/14/13	KW	n/a	n/a	VZ754
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7028-8	**Date Sampled:**	08/05/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(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

NATIONVIEW

FA7028

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08052013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
~~SS-23~~ SS17-MW25		8-May-13	835	-	N		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x									
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

Sample Analysis Requested (5)

Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [illegible]	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Campbell (ALSA)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 7.96394E+11

Delivery Location:

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 3.0 2.6 2.8

NATIONVIEW

Chain of Custody and Analytical Request

FA7028

Page: 1 of 1
Project No: 11.0019
COC Number(1): 08052013-2
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW23-A		8-May-13	835	-	FD		WG	18	x	x	x	x	x	x	x	x	x	x								
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Coone (AHA)	8.6.13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment:
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 796393790009
Delivery Location:
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

Project No: 11.0019

COC Number(1): 08052013-3

LIMS Number:

Chain of Custody and Analytical Request FA7028

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: B.Parrish

Field Sample ID (30 Characters Max)	BRPIMS 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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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 SS17-MW22		8-May-13	1035	-	FD		WG	18	x	x	x	x	x	x	x	x	x	x								
2 TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/5/2013	1500	1. FX		09:15
2. FX			2. J. Conne (Alst)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796393844561

Delivery Location:

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

Chain of Custody and Analytical Request

FA 7028

Page: 1 of 1
Project No: 11.0019
COC Number(1): 08052013-4
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW21		8-May-13	1220	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x									
TRIP BLANK				-	TB																					
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1. B. Parrish	8/5/2013	1500	1. FX		07:15
2. FX			2. J. Comer (ALS)	8-6-13	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment:
Analytical Lab: ACCUTEST
Lab Recipient:

Shipped No.:
Airbill Number: 796393926749
Delivery Location:
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: FA 7028 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 8-6-13 09:15 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7963 9372 5048

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: 2.4 2.6 2.2 2.4
- [ ] CORRECTED TEMPS: 2.8 3.0 2.6 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [X] 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 (8270) BROKEN FOR SAMPLE #1
" " " (8015 DRO) " " " #5
TOTAL METAL FOR SAMPLE #5 RECEIVED N/P WE PRESERVE WITH 2 ml HNO3 P853

TECHNICIAN SIGNATURE/DATE 8-6-13 REVIEWER SIGNATURE/DATE 08-06-13

NF 12/10

receipt confirmation 122910.xls

Southeast ACCUTEST LABORATORIES

11/05/13

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA7055

Sampling Date: 08/06/13

Report to:

Nation View

Fermin.Esquibel@nationview.net

ATTN: Fermin Esquibel

Total number of pages in report: **54**

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

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), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Accutest LabLink@146353 14:19 05-Nov-2013

Sample Summary

Nation View

Job No: FA7055

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7055-1	08/06/13	08:50	BP	08/07/13	AQ	Ground Water	SS17-MW05
FA7055-1F	08/06/13	08:50	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW05
FA7055-2	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK
FA7055-3	08/06/13	10:00	BP	08/07/13	AQ	Ground Water	SS17-MW07
FA7055-3F	08/06/13	10:00	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW07
FA7055-4	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK
FA7055-5	08/06/13	11:05	BP	08/07/13	AQ	Ground Water	SS17-MW08
FA7055-5F	08/06/13	11:05	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW08
FA7055-6	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7055-1	**SS17-MW05**					
n-Butylbenzene		17.8 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		15.5 J	50	11	ug/l	SW846 8260B
Ethylbenzene		2960	50	15	ug/l	SW846 8260B
Isopropylbenzene		85.8	50	10	ug/l	SW846 8260B
Naphthalene		635	250	50	ug/l	SW846 8260B
n-Propylbenzene		292	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		157	100	10	ug/l	SW846 8260B
Toluene		25.8 J	50	10	ug/l	SW846 8260B
m,p-Xylene		574	100	15	ug/l	SW846 8260B
o-Xylene		11.6 J	50	10	ug/l	SW846 8260B
2,4-Dimethylphenol [a]		9.7 J	19	2.9	ug/l	SW846 8270D
2,6-Dinitrotoluene [a]		3.8 J	19	3.1	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate [a]		7.6 J	19	4.4	ug/l	SW846 8270D
1-Methylnaphthalene [a]		74.3	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene [a]		63.0	19	2.6	ug/l	SW846 8270D
Naphthalene		383	48	6.1	ug/l	SW846 8270D
TPH-GRO (C6-C10)		8.04	1.0	0.50	mg/l	SW846 8015C
TPH (C10-C22)		6.31	1.2	0.48	mg/l	SW846 8015C
Iron		1260	300	29	ug/l	SW846 6010C
Manganese		354	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		43.1	20	20	mg/l	SM19 5210B
Chemical Oxygen Demand		115	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		50.8	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [b]		0.55	0.50	0.089	mg/l	SM18 3500FED M
Iron, Ferrous [c]		0.71	0.20	0.060	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.43	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.6	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3470	200	20	mg/l	SM19 2540C
Sulfate		1990	50	15	mg/l	EPA 300/SW846 9056A
FA7055-1F	**SS17-MW05**					
Manganese		319	15	0.70	ug/l	SW846 6010C
FA7055-2	**TRIP BLANK**					
Toluene		0.24 J	1.0	0.20	ug/l	SW846 8260B
FA7055-3	**SS17-MW07**					
Benzene		0.72 J	1.0	0.21	ug/l	SW846 8260B
sec-Butylbenzene		4.3	1.0	0.21	ug/l	SW846 8260B
Ethylbenzene		16.3	1.0	0.29	ug/l	SW846 8260B

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		3.6	1.0	0.20	ug/l	SW846 8260B
4-Methyl-2-pentanone		5.2	5.0	2.3	ug/l	SW846 8260B
Naphthalene		1.1 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		5.8	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.48 J	2.0	0.20	ug/l	SW846 8260B
Toluene		1.5	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		3.2	2.0	0.30	ug/l	SW846 8260B
o-Xylene		0.61 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.592	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.729	0.24	0.095	mg/l	SW846 8015C
Iron		215 J	300	29	ug/l	SW846 6010C
Manganese		693	15	0.70	ug/l	SW846 6010C
Hydrogen Sulfide		4.0	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferrous [c]		0.38	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.094 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		1.2	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		1.2	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2630	200	20	mg/l	SM19 2540C
Sulfate		1620	50	15	mg/l	EPA 300/SW846 9056A
FA7055-3F	**SS17-MW07**					
Manganese		688	15	0.70	ug/l	SW846 6010C
FA7055-4	**TRIP BLANK**					
Toluene		0.25 J	1.0	0.20	ug/l	SW846 8260B
FA7055-5	**SS17-MW08**					
n-Butylbenzene		17.4 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		14.0 J	50	11	ug/l	SW846 8260B
Ethylbenzene		4130	50	15	ug/l	SW846 8260B
Isopropylbenzene		88.7	50	10	ug/l	SW846 8260B
Naphthalene		415	250	50	ug/l	SW846 8260B
n-Propylbenzene		326	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		927	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		211	100	10	ug/l	SW846 8260B
Toluene		22.6 J	50	10	ug/l	SW846 8260B
m,p-Xylene		4580	100	15	ug/l	SW846 8260B
o-Xylene		16.4 J	50	10	ug/l	SW846 8260B
3&4-Methylphenol [a]		20.0	19	5.3	ug/l	SW846 8270D
1-Methylnaphthalene [a]		43.7	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene [a]		41.2	19	2.6	ug/l	SW846 8270D
Naphthalene [a]		274	19	2.4	ug/l	SW846 8270D

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH-GRO (C6-C10)		30.9	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		2.47	1.2	0.48	mg/l	SW846 8015C
Iron		134 J	300	29	ug/l	SW846 6010C
Manganese		204	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		100	20	20	mg/l	SM19 5210B
Chemical Oxygen Demand		103	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		56.4	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferrous [c]		0.62	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.066 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3340	500	50	mg/l	SM19 2540C
Sulfate		1540	50	15	mg/l	EPA 300/SW846 9056A
FA7055-5F	**SS17-MW08**					
Manganese		221	15	0.70	ug/l	SW846 6010C
FA7055-6	**TRIP BLANK**					
Toluene		0.26 J	1.0	0.20	ug/l	SW846 8260B

(a) Dilution required due to matrix interference.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18164.D	50	08/14/13	KW	n/a	n/a	VP693
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	1300	500	ug/l	
107-02-8	Acrolein [a]	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	17.8	50	10	ug/l	J
135-98-8	sec-Butylbenzene	15.5	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	2960	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	85.8	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	635	250	50	ug/l	
103-65-1	n-Propylbenzene	292	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	157	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	25.8	50	10	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	574	100	15	ug/l	
95-47-6	o-Xylene	11.6	50	10	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated BS recovery outside control limits.

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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029897.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
Run #2	X029876.D	10	08/12/13	FS	08/09/13	OP48131	SX1425

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	9.7	19	2.9	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	96	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.8	ug/l	
	3&4-Methylphenol	ND	19	5.3	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	96	19	ug/l	
87-86-5	Pentachlorophenol	ND	96	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.7	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.9	ug/l	
92-87-5	Benzidine	ND	96	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.6	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline [b]	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.8	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	3.8	19	3.1	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	7.6	19	4.4	ug/l	J
206-44-0	Fluoranthene	ND	19	2.3	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.5	ug/l	
90-12-0	1-Methylnaphthalene	74.3	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	63.0	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	383 [c]	48	6.1	ug/l	
98-95-3	Nitrobenzene	ND	19	2.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	47%	14-67%
4165-62-2	Phenol-d5	34%	32%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	77%	33-118%
4165-60-0	Nitrobenzene-d5	81%	71%	42-108%
321-60-8	2-Fluorobiphenyl	77%	72%	40-106%
1718-51-0	Terphenyl-d14	85%	76%	39-121%

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.
(c) 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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123304.D	10	08/07/13	CP	n/a	n/a	GCD5032
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.04	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37548.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
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)	6.31	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	128%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1260	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	354	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	43.1	20	20	mg/l	10	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	115	20	5.3	mg/l	1	08/09/13 13:00	LE	SM19 5220C
Hydrogen Sulfide	50.8	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.55	0.50	0.089	mg/l	1	08/08/13 10:39	LM	SM18 3500FED M
Iron, Ferrous [b]	0.71	0.20	0.060	mg/l	2	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.43	0.10	0.030	mg/l	1	08/14/13 13:50	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/07/13 10:50	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.6	0.53	0.17	mg/l	1	08/10/13 08:56	MG	EPA 351.2
Solids, Total Dissolved	3470	200	20	mg/l	2	08/13/13 13:55	KC	SM19 2540C
Sulfate	1990	50	15	mg/l	25	08/07/13 13:45	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW05		
Lab Sample ID:	FA7055-1F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	319	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18165.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.24	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18166.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.72	1.0	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	4.3	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	16.3	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	3.6	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	5.2	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	1.1	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	5.8	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.48	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	1.5	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	3.2	2.0	0.30	ug/l	
95-47-6	o-Xylene	0.61	1.0	0.20	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029877.D	1	08/12/13	FS	08/09/13	OP48131	SX1425
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline [a]	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.68	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	ND	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	89%		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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123315.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.592	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	130%		70-131%
98-08-8	aaa-Trifluorotoluene	110%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL49843.D	1	08/15/13	SJL	08/13/13	OP48181	GLL1883
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)	0.729	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	121%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	215 J	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	693	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	08/09/13 10:45	LE	SM19 5220C
Hydrogen Sulfide	4.0	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.059 U	0.40	0.059	mg/l	1	08/08/13 10:43	LM	SM18 3500FED M
Iron, Ferrous [b]	0.38	0.10	0.030	mg/l	1	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.094 J	0.10	0.030	mg/l	1	08/14/13 13:55	VK	EPA 350.1
Nitrogen, Nitrate	1.2	1.0	0.50	mg/l	10	08/07/13 11:06	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	08/10/13 09:05	MG	EPA 351.2
Solids, Total Dissolved	2630	200	20	mg/l	2	08/13/13 13:55	KC	SM19 2540C
Sulfate	1620	50	15	mg/l	25	08/07/13 14:01	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	SS17-MW07		
Lab Sample ID:	FA7055-3F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	688	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18167.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.25	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18168.D	50	08/14/13	KW	n/a	n/a	VP693
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	1300	500	ug/l	
107-02-8	Acrolein [a]	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	17.4	50	10	ug/l	J
135-98-8	sec-Butylbenzene	14.0	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	4130	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	88.7	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	415	250	50	ug/l	
103-65-1	n-Propylbenzene	326	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	927	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	211	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	22.6	50	10	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	4580	100	15	ug/l	
95-47-6	o-Xylene	16.4	50	10	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029896.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
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	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	19	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	96	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.8	ug/l	
	3&4-Methylphenol	20.0	19	5.3	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	96	19	ug/l	
87-86-5	Pentachlorophenol	ND	96	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.7	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.9	ug/l	
92-87-5	Benzidine	ND	96	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.6	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline [b]	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.8	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	3.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	4.4	ug/l	
206-44-0	Fluoranthene	ND	19	2.3	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.5	ug/l	
90-12-0	1-Methylnaphthalene	43.7	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	41.2	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	274	19	2.4	ug/l	
98-95-3	Nitrobenzene	ND	19	2.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

(a) Dilution required due to matrix interference.
(b) 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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123316.D	50	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	30.9	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-131%
98-08-8	aaa-Trifluorotoluene	94%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37552.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
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)	2.47	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	134 J	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	204	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	100	20	20	mg/l	10	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	103	20	5.3	mg/l	1	08/09/13 10:45	LE	SM19 5220C
Hydrogen Sulfide	56.4	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	-0.49 *	0.40	0.059	mg/l	1	08/08/13 10:47	LM	SM18 3500FED M
Iron, Ferrous [b]	0.62	0.10	0.030	mg/l	1	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.066 J	0.10	0.030	mg/l	1	08/14/13 13:56	VK	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	08/07/13 11:22	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	08/10/13 09:06	MG	EPA 351.2
Solids, Total Dissolved	3340	500	50	mg/l	5	08/13/13 13:55	KC	SM19 2540C
Sulfate	1540	50	15	mg/l	25	08/07/13 11:22	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW08		
Lab Sample ID:	FA7055-5F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	221	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18169.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.26	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(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:

- Chain of Custody

NATIONVIEW

FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW05		6/8/2013	850	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x	x							1	
TRIP BLANK				-	TB																				2	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	6/2013	1300	1. FE		
2. FE	08-07-13	930	2. RWilliams	08-06-13	930
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402597484

Delivery Location:

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) 2-4, 2-6, 2-6

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

FA7055: Chain of Custody

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NATIONVIEW

FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-2

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW07		6/8/2013	1000	-	FD		WG	18	x	x	x	x	x	x	x	x	x	x							3	
TRIP BLANK				-	TB																				4	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/6/2013	1300	1.		
2. FC	08-07-13	930	2. KW		HSC
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402620122

Delivery Location:

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

FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-3

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: B.Parrish

Field Sample ID (30 Characters Max)	BRPIMS 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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW08		6/8/2013	1105	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x	x							5	
TRIP BLANK				-	TB																				6	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/6/2013	1300	1. FC		
2. EK 0807-13		930	2. R Witten		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402660799

Delivery Location:

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

FA7055: Chain of Custody
Page 3 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7055 CLIENT: Nation View PROJECT: SS-17

DATE/TIME RECEIVED: 08-07-13 930 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7964 0266 0799 / 2484 / 0122

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 3
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.0 2.2 2.2
- [ ] CORRECTED TEMPS: 2.4, 2.6, 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: No Analysis Marked For trip Blank

TECHNICIAN SIGNATURE/DATE R Will 08-07-13 REVIEWER SIGNATURE/DATE [signature] 08/07/13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA7055: Chain of Custody

Page 4 of 4

Southeast ACCUTEST LABORATORIES

09/09/13

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA7055

Sampling Date: 08/06/13

Report to:

Bhate Environmental Associates, Inc.

dmcneil@bhate.com

ATTN: Dustin McNeil

Total number of pages in report: **97**

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

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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Accutest LabLink@144779 12:43 09-Sep-2013

Sample Summary

Nation View

Job No: FA7055

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA7055-1	08/06/13	08:50	BP	08/07/13	AQ	Ground Water	SS17-MW05
FA7055-1F	08/06/13	08:50	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW05
FA7055-2	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK
FA7055-3	08/06/13	10:00	BP	08/07/13	AQ	Ground Water	SS17-MW07
FA7055-3F	08/06/13	10:00	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW07
FA7055-4	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK
FA7055-5	08/06/13	11:05	BP	08/07/13	AQ	Ground Water	SS17-MW08
FA7055-5F	08/06/13	11:05	BP	08/07/13	AQ	Groundwater Filtered	SS17-MW08
FA7055-6	08/06/13	00:00	BP	08/07/13	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7055-1	**SS17-MW05**					
n-Butylbenzene		17.8 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		15.5 J	50	11	ug/l	SW846 8260B
Ethylbenzene		2960	50	15	ug/l	SW846 8260B
Isopropylbenzene		85.8	50	10	ug/l	SW846 8260B
Naphthalene		635	250	50	ug/l	SW846 8260B
n-Propylbenzene		292	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		157	100	10	ug/l	SW846 8260B
Toluene		25.8 J	50	10	ug/l	SW846 8260B
m,p-Xylene		574	100	15	ug/l	SW846 8260B
o-Xylene		11.6 J	50	10	ug/l	SW846 8260B
2,4-Dimethylphenol [a]		9.7 J	19	2.9	ug/l	SW846 8270D
2,6-Dinitrotoluene [a]		3.8 J	19	3.1	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate [a]		7.6 J	19	4.4	ug/l	SW846 8270D
1-Methylnaphthalene [a]		74.3	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene [a]		63.0	19	2.6	ug/l	SW846 8270D
Naphthalene		383	48	6.1	ug/l	SW846 8270D
TPH-GRO (C6-C10)		8.04	1.0	0.50	mg/l	SW846 8015C
TPH (C10-C22)		6.31	1.2	0.48	mg/l	SW846 8015C
Iron		1260	300	29	ug/l	SW846 6010C
Manganese		354	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		43.1	20	20	mg/l	SM19 5210B
Chemical Oxygen Demand		115	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		50.8	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [b]		0.55	0.50	0.089	mg/l	SM18 3500FED M
Iron, Ferrous [c]		0.71	0.20	0.060	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.43	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.6	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3470	200	20	mg/l	SM19 2540C
Sulfate		1990	50	15	mg/l	EPA 300/SW846 9056A
FA7055-1F	**SS17-MW05**					
Manganese		319	15	0.70	ug/l	SW846 6010C
FA7055-2	**TRIP BLANK**					
Toluene		0.24 J	1.0	0.20	ug/l	SW846 8260B
FA7055-3	**SS17-MW07**					
Benzene		0.72 J	1.0	0.21	ug/l	SW846 8260B
sec-Butylbenzene		4.3	1.0	0.21	ug/l	SW846 8260B
Ethylbenzene		16.3	1.0	0.29	ug/l	SW846 8260B

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropylbenzene		3.6	1.0	0.20	ug/l	SW846 8260B
4-Methyl-2-pentanone		5.2	5.0	2.3	ug/l	SW846 8260B
Naphthalene		1.1 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		5.8	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.48 J	2.0	0.20	ug/l	SW846 8260B
Toluene		1.5	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		3.2	2.0	0.30	ug/l	SW846 8260B
o-Xylene		0.61 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.592	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.729	0.24	0.095	mg/l	SW846 8015C
Iron		215 J	300	29	ug/l	SW846 6010C
Manganese		693	15	0.70	ug/l	SW846 6010C
Hydrogen Sulfide		4.0	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferrous [c]		0.38	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.094 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		1.2	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		1.2	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2630	200	20	mg/l	SM19 2540C
Sulfate		1620	50	15	mg/l	EPA 300/SW846 9056A
FA7055-3F	**SS17-MW07**					
Manganese		688	15	0.70	ug/l	SW846 6010C
FA7055-4	**TRIP BLANK**					
Toluene		0.25 J	1.0	0.20	ug/l	SW846 8260B
FA7055-5	**SS17-MW08**					
n-Butylbenzene		17.4 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		14.0 J	50	11	ug/l	SW846 8260B
Ethylbenzene		4130	50	15	ug/l	SW846 8260B
Isopropylbenzene		88.7	50	10	ug/l	SW846 8260B
Naphthalene		415	250	50	ug/l	SW846 8260B
n-Propylbenzene		326	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		927	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		211	100	10	ug/l	SW846 8260B
Toluene		22.6 J	50	10	ug/l	SW846 8260B
m,p-Xylene		4580	100	15	ug/l	SW846 8260B
o-Xylene		16.4 J	50	10	ug/l	SW846 8260B
3&4-Methylphenol [a]		20.0	19	5.3	ug/l	SW846 8270D
1-Methylnaphthalene [a]		43.7	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene [a]		41.2	19	2.6	ug/l	SW846 8270D
Naphthalene [a]		274	19	2.4	ug/l	SW846 8270D

Summary of Hits

Job Number: FA7055
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/06/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH-GRO (C6-C10)		30.9	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		2.47	1.2	0.48	mg/l	SW846 8015C
Iron		134 J	300	29	ug/l	SW846 6010C
Manganese		204	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		100	20	20	mg/l	SM19 5210B
Chemical Oxygen Demand		103	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		56.4	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferrous [c]		0.62	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.066 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3340	500	50	mg/l	SM19 2540C
Sulfate		1540	50	15	mg/l	EPA 300/SW846 9056A
FA7055-5F	**SS17-MW08**					
Manganese		221	15	0.70	ug/l	SW846 6010C
FA7055-6	**TRIP BLANK**					
Toluene		0.26 J	1.0	0.20	ug/l	SW846 8260B

(a) Dilution required due to matrix interference.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18164.D	50	08/14/13	KW	n/a	n/a	VP693
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	1300	500	ug/l	
107-02-8	Acrolein [a]	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	17.8	50	10	ug/l	J
135-98-8	sec-Butylbenzene	15.5	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	2960	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	85.8	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	635	250	50	ug/l	
103-65-1	n-Propylbenzene	292	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	157	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	25.8	50	10	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	574	100	15	ug/l	
95-47-6	o-Xylene	11.6	50	10	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029897.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
Run #2	X029876.D	10	08/12/13	FS	08/09/13	OP48131	SX1425

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	9.7	19	2.9	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	96	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.8	ug/l	
	3&4-Methylphenol	ND	19	5.3	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	96	19	ug/l	
87-86-5	Pentachlorophenol	ND	96	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.7	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.9	ug/l	
92-87-5	Benzidine	ND	96	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.6	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline [b]	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.8	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	3.8	19	3.1	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	7.6	19	4.4	ug/l	J
206-44-0	Fluoranthene	ND	19	2.3	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.5	ug/l	
90-12-0	1-Methylnaphthalene	74.3	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	63.0	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	383 [c]	48	6.1	ug/l	
98-95-3	Nitrobenzene	ND	19	2.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	47%	14-67%
4165-62-2	Phenol-d5	34%	32%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	77%	33-118%
4165-60-0	Nitrobenzene-d5	81%	71%	42-108%
321-60-8	2-Fluorobiphenyl	77%	72%	40-106%
1718-51-0	Terphenyl-d14	85%	76%	39-121%

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.
(c) 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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123304.D	10	08/07/13	CP	n/a	n/a	GCD5032
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.04	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37548.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
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)	6.31	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	128%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1260	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	354	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW05		
Lab Sample ID:	FA7055-1	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	43.1	20	20	mg/l	10	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	115	20	5.3	mg/l	1	08/09/13 13:00	LE	SM19 5220C
Hydrogen Sulfide	50.8	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.55	0.50	0.089	mg/l	1	08/08/13 10:39	LM	SM18 3500FED M
Iron, Ferrous [b]	0.71	0.20	0.060	mg/l	2	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.43	0.10	0.030	mg/l	1	08/14/13 13:50	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/07/13 10:50	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.6	0.53	0.17	mg/l	1	08/10/13 08:56	MG	EPA 351.2
Solids, Total Dissolved	3470	200	20	mg/l	2	08/13/13 13:55	KC	SM19 2540C
Sulfate	1990	50	15	mg/l	25	08/07/13 13:45	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW05		
Lab Sample ID:	FA7055-1F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	319	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18165.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.24	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-2	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18166.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.72	1.0	0.21	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	4.3	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	16.3	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	3.6	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	5.2	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	1.1	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	5.8	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.48	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	1.5	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	3.2	2.0	0.30	ug/l	
95-47-6	o-Xylene	0.61	1.0	0.20	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X029877.D	1	08/12/13	FS	08/09/13	OP48131	SX1425
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	0.68	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	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	9.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.65	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.86	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.75	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.67	ug/l	
62-53-3	Aniline	ND	4.8	0.75	ug/l	
120-12-7	Anthracene	ND	4.8	0.72	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.76	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.70	ug/l	
106-47-8	4-Chloroaniline [a]	ND	4.8	0.66	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.76	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.84	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.66	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.92	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.68	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.93	ug/l	
91-20-3	Naphthalene	ND	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.68	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	89%		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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123315.D	1	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.592	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	130%		70-131%
98-08-8	aaa-Trifluorotoluene	110%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL49843.D	1	08/15/13	SJL	08/13/13	OP48181	GLL1883
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)	0.729	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	121%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	215 J	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	693	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW07		
Lab Sample ID:	FA7055-3	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	08/09/13 10:45	LE	SM19 5220C
Hydrogen Sulfide	4.0	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.059 U	0.40	0.059	mg/l	1	08/08/13 10:43	LM	SM18 3500FED M
Iron, Ferrous [b]	0.38	0.10	0.030	mg/l	1	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.094 J	0.10	0.030	mg/l	1	08/14/13 13:55	VK	EPA 350.1
Nitrogen, Nitrate	1.2	1.0	0.50	mg/l	10	08/07/13 11:06	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	08/10/13 09:05	MG	EPA 351.2
Solids, Total Dissolved	2630	200	20	mg/l	2	08/13/13 13:55	KC	SM19 2540C
Sulfate	1620	50	15	mg/l	25	08/07/13 14:01	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	SS17-MW07		
Lab Sample ID:	FA7055-3F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	688	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18167.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.25	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-4	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18168.D	50	08/14/13	KW	n/a	n/a	VP693
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	1300	500	ug/l	
107-02-8	Acrolein [a]	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	17.4	50	10	ug/l	J
135-98-8	sec-Butylbenzene	14.0	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	4130	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	88.7	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	415	250	50	ug/l	
103-65-1	n-Propylbenzene	326	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	927	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	211	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	22.6	50	10	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	4580	100	15	ug/l	
95-47-6	o-Xylene	16.4	50	10	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X029896.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
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	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	19	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	96	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.8	ug/l	
	3&4-Methylphenol	20.0	19	5.3	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	96	19	ug/l	
87-86-5	Pentachlorophenol	ND	96	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.7	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.9	ug/l	
92-87-5	Benzidine	ND	96	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.6	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline [b]	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.7	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.8	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	3.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	4.4	ug/l	
206-44-0	Fluoranthene	ND	19	2.3	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.5	ug/l	
90-12-0	1-Methylnaphthalene	43.7	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	41.2	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	274	19	2.4	ug/l	
98-95-3	Nitrobenzene	ND	19	2.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

(a) Dilution required due to matrix interference.
(b) 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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD123316.D	50	08/08/13	CP	n/a	n/a	GCD5033
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	30.9	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-131%
98-08-8	aaa-Trifluorotoluene	94%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY37552.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
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)	2.47	1.2	0.48	mg/l	
	TPH (> C22-C36)	ND	1.2	0.48	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	134 J	300	29	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	204	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	SS17-MW08		
Lab Sample ID:	FA7055-5	**Date Sampled:**	08/06/13
Matrix:	AQ - Ground Water	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	100	20	20	mg/l	10	08/07/13 07:30	KC	SM19 5210B
Chemical Oxygen Demand	103	20	5.3	mg/l	1	08/09/13 10:45	LE	SM19 5220C
Hydrogen Sulfide	56.4	1.0	0.50	mg/l	1	08/07/13 11:55	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	-0.49 *	0.40	0.059	mg/l	1	08/08/13 10:47	LM	SM18 3500FED M
Iron, Ferrous [b]	0.62	0.10	0.030	mg/l	1	08/07/13 11:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.066 J	0.10	0.030	mg/l	1	08/14/13 13:56	VK	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	08/07/13 11:22	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	08/10/13 09:06	MG	EPA 351.2
Solids, Total Dissolved	3340	500	50	mg/l	5	08/13/13 13:55	KC	SM19 2540C
Sulfate	1540	50	15	mg/l	25	08/07/13 11:22	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW08		
Lab Sample ID:	FA7055-5F	**Date Sampled:**	08/06/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/07/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	221	15	0.70	ug/l	1	08/07/13	08/08/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10959
(2) Prep QC Batch: MP25631

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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P18169.D	1	08/14/13	KW	n/a	n/a	VP693
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.26	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA7055-6	**Date Sampled:**	08/06/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(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:

- Chain of Custody

NATIONVIEW

FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW05		6/8/2013	850	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x	x							1	
TRIP BLANK				-	TB																				2	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	6/2013	1300	1.		
2. FR	08-07-13	930	2. RWilliams	08-06-13	930
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402597484

Delivery Location:

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) 2-4, 2-6, 2-6

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

FA7055: Chain of Custody

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FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-2

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW07		6/8/2013	1000	-	FD		WG	18	x	x	x	x	x	x	x	x	x	x							3	
TRIP BLANK				-	TB																				4	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/6/2013	1300	1.		
2. FC	08-07-13	930	2. KW		HSE
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment:

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402620122

Delivery Location:

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

FA7055: Chain of Custody

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NATIONVIEW

FA7055

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08062013-3

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: B.Parrish

Field Sample ID (30 Characters Max)	BRPIMS 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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW08		6/8/2013	1105	-	FD		WG	18	ξ	ξ	ξ	ξ	ξ	x	x	x	x	x							5	
TRIP BLANK				-	TB																				6	
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/6/2013	1300	1. PO		
2. EK 0807-13		930	2. R Witten		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 796402660799

Delivery Location:

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

FA7055: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7055 CLIENT: Natrin View PROJECT: SS-17

DATE/TIME RECEIVED: 08-07-13 930 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7964 0266 0799 / 2484 / 0122

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 3
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.0 2.2 2.2
- [ ] CORRECTED TEMPS: 2.4, 2.6, 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: No Analysis Marked For trip Blank

TECHNICIAN SIGNATURE/DATE R Will 08-07-13 REVIEWER SIGNATURE/DATE [signature] 08/07/13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA7055: 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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-MB	P18151.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-MB	P18151.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-MB	P18151.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-BS	P18152.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	84.5	68	50-147
107-02-8	Acrolein	125	324	259*	31-154
107-13-1	Acrylonitrile	125	116	93	58-126
71-43-2	Benzene	25	25.6	102	81-122
108-86-1	Bromobenzene	25	26.7	107	80-121
74-97-5	Bromochloromethane	25	25.7	103	76-123
75-27-4	Bromodichloromethane	25	25.4	102	79-123
75-25-2	Bromoform	25	23.7	95	66-123
104-51-8	n-Butylbenzene	25	26.8	107	79-126
135-98-8	sec-Butylbenzene	25	30.2	121	83-133
98-06-6	tert-Butylbenzene	25	29.2	117	80-133
108-90-7	Chlorobenzene	25	27.4	110	82-124
75-00-3	Chloroethane	25	22.1	88	62-144
67-66-3	Chloroform	25	25.7	103	80-124
95-49-8	o-Chlorotoluene	25	28.9	116	81-127
106-43-4	p-Chlorotoluene	25	29.2	117	83-130
110-75-8	2-Chloroethyl vinyl ether	125	198	158*	56-122
75-15-0	Carbon disulfide	25	25.3	101	66-148
56-23-5	Carbon tetrachloride	25	27.4	110	76-136
75-34-3	1,1-Dichloroethane	25	25.3	101	81-122
75-35-4	1,1-Dichloroethylene	25	24.0	96	78-137
563-58-6	1,1-Dichloropropene	25	27.4	110	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.8	103	64-123
106-93-4	1,2-Dibromoethane	25	24.2	97	75-120
107-06-2	1,2-Dichloroethane	25	26.1	104	75-125
78-87-5	1,2-Dichloropropane	25	25.3	101	76-124
142-28-9	1,3-Dichloropropane	25	24.6	98	80-118
594-20-7	2,2-Dichloropropane	25	25.6	102	74-139
124-48-1	Dibromochloromethane	25	25.3	101	78-122
75-71-8	Dichlorodifluoromethane	25	21.6	86	42-167
156-59-2	cis-1,2-Dichloroethylene	25	27.1	108	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	75-118
541-73-1	m-Dichlorobenzene	25	28.0	112	84-125
95-50-1	o-Dichlorobenzene	25	28.4	114	82-124
106-46-7	p-Dichlorobenzene	25	26.0	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.6	98	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-BS	P18152.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	80-120
100-41-4	Ethylbenzene	25	25.5	102	81-121
591-78-6	2-Hexanone	125	116	93	61-129
87-68-3	Hexachlorobutadiene	25	27.8	111	75-142
98-82-8	Isopropylbenzene	25	25.8	103	83-132
99-87-6	p-Isopropyltoluene	25	28.8	115	79-130
108-10-1	4-Methyl-2-pentanone	125	128	102	66-122
74-83-9	Methyl bromide	25	21.2	85	59-143
74-87-3	Methyl chloride	25	21.2	85	50-159
74-95-3	Methylene bromide	25	25.0	100	78-119
75-09-2	Methylene chloride	25	21.7	87	69-135
78-93-3	Methyl ethyl ketone	125	103	82	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	72-117
91-20-3	Naphthalene	25	24.6	98	63-132
103-65-1	n-Propylbenzene	25	29.9	120	82-133
100-42-5	Styrene	25	25.7	103	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.5	102	77-122
71-55-6	1,1,1-Trichloroethane	25	26.2	105	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	72-120
79-00-5	1,1,2-Trichloroethane	25	24.1	96	76-119
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	68-131
96-18-4	1,2,3-Trichloropropane	25	23.5	94	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.8	99	73-129
95-63-6	1,2,4-Trimethylbenzene	25	26.5	106	79-120
108-67-8	1,3,5-Trimethylbenzene	25	26.7	107	79-120
127-18-4	Tetrachloroethylene	25	26.4	106	76-135
108-88-3	Toluene	25	25.2	101	80-120
79-01-6	Trichloroethylene	25	27.8	111	81-126
75-69-4	Trichlorofluoromethane	25	23.7	95	71-156
75-01-4	Vinyl chloride	25	22.1	88	69-159
108-05-4	Vinyl Acetate	125	122	98	43-154
	m,p-Xylene	50	53.5	107	79-126
95-47-6	o-Xylene	25	27.0	108	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP693-BS	P18152.D	1	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7194-9MS	P18162.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9MSD	P18163.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9	P18158.D	10	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	FA7194-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	591	47*	594	48*	1	50-147/21
107-02-8	Acrolein	ND		1250	3230	258*	2590	207*	22	31-154/29
107-13-1	Acrylonitrile	ND		1250	1100	88	1040	83	6	58-126/16
71-43-2	Benzene	ND		250	251	100	245	98	2	81-122/14
108-86-1	Bromobenzene	ND		250	252	101	245	98	3	80-121/14
74-97-5	Bromochloromethane	ND		250	256	102	235	94	9	76-123/14
75-27-4	Bromodichloromethane	ND		250	245	98	208	83	16	79-123/19
75-25-2	Bromoform	ND		250	209	84	167	67	22*	66-123/21
104-51-8	n-Butylbenzene	ND		250	255	102	248	99	3	79-126/16
135-98-8	sec-Butylbenzene	ND		250	285	114	282	113	1	83-133/16
98-06-6	tert-Butylbenzene	ND		250	281	112	279	112	1	80-133/16
108-90-7	Chlorobenzene	ND		250	264	106	257	103	3	82-124/14
75-00-3	Chloroethane	ND		250	239	96	229	92	4	62-144/20
67-66-3	Chloroform	ND		250	252	101	235	94	7	80-124/15
95-49-8	o-Chlorotoluene	ND		250	278	111	266	106	4	81-127/15
106-43-4	p-Chlorotoluene	ND		250	279	112	280	112	0	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		1250	84.0	7*	43.1	3*	64*	56-122/23
75-15-0	Carbon disulfide	ND		250	193	77	154	62*	22	66-148/23
56-23-5	Carbon tetrachloride	ND		250	271	108	222	89	20	76-136/23
75-34-3	1,1-Dichloroethane	ND		250	257	103	241	96	6	81-122/15
75-35-4	1,1-Dichloroethylene	ND		250	245	98	238	95	3	78-137/18
563-58-6	1,1-Dichloropropene	ND		250	263	105	254	102	3	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	210	84	216	86	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		250	224	90	218	87	3	75-120/13
107-06-2	1,2-Dichloroethane	ND		250	252	101	246	98	2	75-125/14
78-87-5	1,2-Dichloropropane	ND		250	257	103	245	98	5	76-124/14
142-28-9	1,3-Dichloropropane	ND		250	232	93	235	94	1	80-118/13
594-20-7	2,2-Dichloropropane	ND		250	227	91	213	85	6	74-139/17
124-48-1	Dibromochloromethane	ND		250	228	91	186	74*	20*	78-122/19
75-71-8	Dichlorodifluoromethane	ND		250	226	90	234	94	3	42-167/19
156-59-2	cis-1,2-Dichloroethylene	20.3		250	281	104	259	95	8	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		250	224	90	195	78	14	75-118/23
541-73-1	m-Dichlorobenzene	ND		250	274	110	271	108	1	84-125/14
95-50-1	o-Dichlorobenzene	ND		250	260	104	259	104	0	82-124/14
106-46-7	p-Dichlorobenzene	ND		250	248	99	239	96	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	246	98	222	89	10	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7194-9MS	P18162.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9MSD	P18163.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9	P18158.D	10	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Compound	FA7194-9 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		250	243	97	215	86	12	80-120/22
100-41-4	Ethylbenzene	ND		250	247	99	248	99	0	81-121/14
591-78-6	2-Hexanone	ND		1250	952	76	1050	84	10	61-129/18
87-68-3	Hexachlorobutadiene	ND		250	253	101	255	102	1	75-142/19
98-82-8	Isopropylbenzene	ND		250	250	100	243	97	3	83-132/15
99-87-6	p-Isopropyltoluene	ND		250	275	110	271	108	1	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		1250	1150	92	1210	97	5	66-122/16
74-83-9	Methyl bromide	ND		250	218	87	221	88	1	59-143/19
74-87-3	Methyl chloride	ND		250	232	93	235	94	1	50-159/19
74-95-3	Methylene bromide	ND		250	240	96	220	88	9	78-119/14
75-09-2	Methylene chloride	ND		250	241	96	230	92	5	69-135/16
78-93-3	Methyl ethyl ketone	ND		1250	849	68	871	70	3	56-143/18
1634-04-4	Methyl Tert Butyl Ether	3.1	J	250	225	89	226	89	0	72-117/14
91-20-3	Naphthalene	ND		250	205	82	214	86	4	63-132/25
103-65-1	n-Propylbenzene	ND		250	288	115	278	111	4	82-133/15
100-42-5	Styrene	ND		250	250	100	236	94	6	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	255	102	229	92	11	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		250	254	102	235	94	8	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	226	90	228	91	1	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		250	225	90	226	90	0	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	213	85	216	86	1	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		250	212	85	227	91	7	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		250	221	88	224	90	1	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		250	255	102	247	99	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		250	255	102	252	101	1	79-120/19
127-18-4	Tetrachloroethylene	558		250	746	75* [a]	726	67* [a]	3	76-135/16
108-88-3	Toluene	ND		250	241	96	244	98	1	80-120/14
79-01-6	Trichloroethylene	52.3		250	316	105	304	101	4	81-126/15
75-69-4	Trichlorofluoromethane	ND		250	239	96	228	91	5	71-156/21
75-01-4	Vinyl chloride	ND		250	226	90	233	93	3	69-159/18
108-05-4	Vinyl Acetate	ND		1250	1220	98	1200	96	2	43-154/14
	m,p-Xylene	ND		500	538	108	514	103	5	79-126/15
95-47-6	o-Xylene	ND		250	267	107	258	103	3	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7194-9MS	P18162.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9MSD	P18163.D	10	08/14/13	KW	n/a	n/a	VP693
FA7194-9	P18158.D	10	08/14/13	KW	n/a	n/a	VP693

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7055-1, FA7055-2, FA7055-3, FA7055-4, FA7055-5, FA7055-6

CAS No.	Surrogate Recoveries	MS	MSD	FA7194-9	Limits
1868-53-7	Dibromofluoromethane	100%	102%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	99%	79-125%
2037-26-5	Toluene-D8	97%	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	103%	107%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = 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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MB	X029875.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MB	X029875.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MB	X029875.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	14-67%
4165-62-2	Phenol-d5	36%	10-50%
118-79-6	2,4,6-Tribromophenol	92%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	80%	40-106%
1718-51-0	Terphenyl-d14	99%	39-121%

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-BS	X029874.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	23.2	23	10-69
95-57-8	2-Chlorophenol	50	41.1	82	52-98
59-50-7	4-Chloro-3-methyl phenol	50	38.5	77	54-103
120-83-2	2,4-Dichlorophenol	50	40.4	81	53-103
105-67-9	2,4-Dimethylphenol	50	32.4	65	43-90
51-28-5	2,4-Dinitrophenol	100	86.0	86	44-112
534-52-1	4,6-Dinitro-o-cresol	100	98.8	99	66-121
95-48-7	2-Methylphenol	50	34.6	69	43-90
	3&4-Methylphenol	100	64.9	65	36-88
88-75-5	2-Nitrophenol	50	42.4	85	53-102
100-02-7	4-Nitrophenol	100	34.0	34	18-62
87-86-5	Pentachlorophenol	100	88.5	89	61-115
108-95-2	Phenol	50	17.4	35	19-56
95-95-4	2,4,5-Trichlorophenol	50	47.6	95	62-109
88-06-2	2,4,6-Trichlorophenol	50	46.0	92	59-107
83-32-9	Acenaphthene	50	43.9	88	61-107
208-96-8	Acenaphthylene	50	44.1	88	60-104
62-53-3	Aniline	50	32.9	66	47-100
120-12-7	Anthracene	50	44.7	89	65-108
92-87-5	Benzidine	50	26.7	53	25-99
56-55-3	Benzo(a)anthracene	50	45.6	91	66-111
50-32-8	Benzo(a)pyrene	50	42.6	85	62-107
205-99-2	Benzo(b)fluoranthene	50	48.5	97	65-114
191-24-2	Benzo(g,h,i)perylene	50	42.2	84	66-116
207-08-9	Benzo(k)fluoranthene	50	45.7	91	65-114
101-55-3	4-Bromophenyl phenyl ether	50	49.0	98	65-109
85-68-7	Butyl benzyl phthalate	50	51.2	102	65-112
100-51-6	Benzyl Alcohol	50	36.2	72	46-94
91-58-7	2-Chloronaphthalene	50	43.3	87	57-103
106-47-8	4-Chloroaniline	50	22.3	45* [a]	49-105
86-74-8	Carbazole	50	44.0	88	59-113
218-01-9	Chrysene	50	44.0	88	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	39.9	80	51-102
111-44-4	bis(2-Chloroethyl)ether	50	41.8	84	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	42.3	85	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	46.0	92	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-BS	X029874.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	39.6	79	48-97
122-66-7	1,2-Diphenylhydrazine	50	46.4	93	61-110
541-73-1	1,3-Dichlorobenzene	50	38.8	78	45-95
106-46-7	1,4-Dichlorobenzene	50	38.9	78	45-98
121-14-2	2,4-Dinitrotoluene	50	44.5	89	61-110
606-20-2	2,6-Dinitrotoluene	50	44.9	90	63-108
91-94-1	3,3'-Dichlorobenzidine	50	26.4	53	46-117
53-70-3	Dibenzo(a,h)anthracene	50	44.2	88	66-119
132-64-9	Dibenzofuran	50	44.2	88	61-106
84-74-2	Di-n-butyl phthalate	50	46.3	93	65-107
117-84-0	Di-n-octyl phthalate	50	56.2	112	62-118
84-66-2	Diethyl phthalate	50	45.2	90	64-108
131-11-3	Dimethyl phthalate	50	45.0	90	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.5	103	61-117
206-44-0	Fluoranthene	50	42.1	84	63-106
86-73-7	Fluorene	50	44.4	89	62-108
118-74-1	Hexachlorobenzene	50	44.8	90	63-108
87-68-3	Hexachlorobutadiene	50	38.1	76	42-102
77-47-4	Hexachlorocyclopentadiene	50	35.3	71	39-102
67-72-1	Hexachloroethane	50	38.7	77	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.5	89	64-119
78-59-1	Isophorone	50	39.4	79	43-87
90-12-0	1-Methylnaphthalene	50	39.5	79	53-102
91-57-6	2-Methylnaphthalene	50	41.8	84	51-102
88-74-4	2-Nitroaniline	50	45.5	91	54-128
99-09-2	3-Nitroaniline	50	28.5	57	56-106
100-01-6	4-Nitroaniline	50	44.2	88	55-120
91-20-3	Naphthalene	50	38.7	77	47-100
98-95-3	Nitrobenzene	50	37.0	74	50-104
62-75-9	N-Nitrosodimethylamine	50	25.1	50	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	39.7	79	52-104
86-30-6	N-Nitrosodiphenylamine	50	45.4	91	64-108
85-01-8	Phenanthrene	50	44.9	90	66-110
129-00-0	Pyrene	50	48.4	97	64-113
110-86-1	Pyridine	50	21.6	43	23-74
120-82-1	1,2,4-Trichlorobenzene	50	37.6	75	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-BS	X029874.D	1	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	14-67%
4165-62-2	Phenol-d5	35%	10-50%
118-79-6	2,4,6-Tribromophenol	96%	33-118%
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	86%	40-106%
1718-51-0	Terphenyl-d14	103%	39-121%

(a) Sporadic marginal failure, within limits in MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MS	X029879.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
OP48131-MSD	X029880.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
FA7055-5 [a]	X029896.D	4	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	FA7055-5 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	119	62	103	54	14	10-69/39
95-57-8	2-Chlorophenol	ND		96.2	83.8	87	80.7	84	4	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	88.4	92	86.8	90	2	54-103/23
120-83-2	2,4-Dichlorophenol	ND		96.2	85.8	89	85.1	89	1	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	78.0	81	75.4	78	3	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	235	122*	224	116*	5	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	240	125*	235	122*	2	66-121/23
95-48-7	2-Methylphenol	ND		96.2	79.5	83	76.1	79	4	43-90/28
	3&4-Methylphenol	20.0		192	175	81	166	76	5	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	89.9	93	86.2	90	4	53-102/29
100-02-7	4-Nitrophenol	ND		192	122	63*	106	55	14	18-62/33
87-86-5	Pentachlorophenol	ND		192	218	113	216	112	1	61-115/26
108-95-2	Phenol	ND		96.2	55.6	58*	49.3	51	12	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	93.2	97	91.5	95	2	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	93.4	97	88.8	92	5	59-107/23
83-32-9	Acenaphthene	ND		96.2	88.9	92	88.1	92	1	61-107/22
208-96-8	Acenaphthylene	ND		96.2	86.9	90	84.3	88	3	60-104/22
62-53-3	Aniline	ND		96.2	78.5	82	77.5	81	1	47-100/30
120-12-7	Anthracene	ND		96.2	91.3	95	89.2	93	2	65-108/20
92-87-5	Benzidine	ND		96.2	ND	0*	ND	0*	nc	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	89.5	93	88.7	92	1	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	80.6	84	78.5	82	3	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	88.0	92	87.9	91	0	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	81.4	85	80.6	84	1	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	84.0	87	84.9	88	1	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	97.1	101	94.3	98	3	65-109/23
85-68-7	Butyl benzyl phthalate	ND		96.2	99.4	103	97.2	101	2	65-112/24
100-51-6	Benzyl Alcohol	ND		96.2	81.8	85	79.2	82	3	46-94/27
91-58-7	2-Chloronaphthalene	ND		96.2	88.4	92	85.5	89	3	57-103/23
106-47-8	4-Chloroaniline	ND		96.2	80.7	84	82.3	86	2	49-105/27
86-74-8	Carbazole	ND		96.2	91.5	95	90.2	94	1	59-113/21
218-01-9	Chrysene	ND		96.2	87.9	91	86.8	90	1	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	87.2	91	84.2	88	4	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	86.8	90	84.0	87	3	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	89.9	93	86.0	89	4	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	93.9	98	90.9	95	3	62-105/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MS	X029879.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
OP48131-MSD	X029880.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
FA7055-5 [a]	X029896.D	4	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	FA7055-5 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	84.7	88	81.0	84	4	48-97/24
122-66-7	1,2-Diphenylhydrazine	ND		96.2	92.2	96	89.8	93	3	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	83.1	86	80.0	83	4	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	83.3	87	80.2	83	4	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		96.2	92.2	96	91.0	95	1	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	91.5	95	89.9	93	2	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	82.8	86	86.1	90	4	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	77.1	80	75.9	79	2	66-119/24
132-64-9	Dibenzofuran	ND		96.2	91.1	95	88.2	92	3	61-106/21
84-74-2	Di-n-butyl phthalate	ND		96.2	94.6	98	93.8	98	1	65-107/21
117-84-0	Di-n-octyl phthalate	ND		96.2	98.8	103	97.3	101	2	62-118/24
84-66-2	Diethyl phthalate	ND		96.2	95.3	99	94.1	98	1	64-108/21
131-11-3	Dimethyl phthalate	ND		96.2	93.1	97	91.7	95	2	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	99.0	103	97.6	102	1	61-117/23
206-44-0	Fluoranthene	ND		96.2	88.3	92	87.0	90	1	63-106/21
86-73-7	Fluorene	ND		96.2	92.7	96	90.3	94	3	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	89.2	93	87.7	91	2	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	84.9	88	81.7	85	4	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	57.9	60	57.0	59	2	39-102/29
67-72-1	Hexachloroethane	ND		96.2	90.4	94	85.9	89	5	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	86.3	90	83.7	87	3	64-119/24
78-59-1	Isophorone	ND		96.2	86.1	90*	84.8	88*	2	43-87/25
90-12-0	1-Methylnaphthalene	43.7		96.2	119	78	121	80	2	53-102/27
91-57-6	2-Methylnaphthalene	41.2		96.2	119	81	120	82	1	51-102/26
88-74-4	2-Nitroaniline	ND		96.2	94.2	98	93.7	97	1	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	86.7	90	85.9	89	1	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	92.3	96	89.9	93	3	55-120/24
91-20-3	Naphthalene	274		96.2	274	0* [b]	293	20* [b]	7	47-100/29
98-95-3	Nitrobenzene	ND		96.2	84.8	88	83.8	87	1	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	66.6	69	61.6	64	8	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	81.4	85	81.4	85	0	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	91.8	95	89.8	93	2	64-108/23
85-01-8	Phenanthrene	ND		96.2	91.6	95	89.7	93	2	66-110/21
129-00-0	Pyrene	ND		96.2	93.6	97	92.4	96	1	64-113/23
110-86-1	Pyridine	ND		96.2	56.7	59	55.0	57	3	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	83.4	87	80.3	84	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48131-MS	X029879.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
OP48131-MSD	X029880.D	4	08/12/13	FS	08/09/13	OP48131	SX1425
FA7055-5 [a]	X029896.D	4	08/12/13	FS	08/09/13	OP48131	SX1425

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7055-1, FA7055-3, FA7055-5

CAS No.	Surrogate Recoveries	MS	MSD	FA7055-5	Limits
367-12-4	2-Fluorophenol	65%	59%	37%	14-67%
4165-62-2	Phenol-d5	56%*	50%	28%	10-50%
118-79-6	2,4,6-Tribromophenol	95%	93%	84%	33-118%
4165-60-0	Nitrobenzene-d5	82%	78%	77%	42-108%
321-60-8	2-Fluorobiphenyl	87%	86%	79%	40-106%
1718-51-0	Terphenyl-d14	100%	100%	82%	39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to high level in sample relative to spike amount.

* = 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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5032-MB	CD123294.D	1	08/07/13	CP	n/a	n/a	GCD5032

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1

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	98%	70-131%
98-08-8	aaa-Trifluorotoluene	98%	69-143%

Method Blank Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5033-MB	CD123312.D	1	08/08/13	CP	n/a	n/a	GCD5033

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-3, FA7055-5

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	95%	70-131%
98-08-8	aaa-Trifluorotoluene	97%	69-143%

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5032-BS	CD123293.D	1	08/07/13	CP	n/a	n/a	GCD5032

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.391	98	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	70-131%
98-08-8	aaa-Trifluorotoluene	103%	69-143%

7.2.1

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* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5033-BS	CD123311.D	1	08/08/13	CP	n/a	n/a	GCD5033

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-3, FA7055-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.374	94	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	97%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7028-5MS	CD123300.D	1	08/07/13	CP	n/a	n/a	GCD5032
FA7028-5MSD	CD123301.D	1	08/07/13	CP	n/a	n/a	GCD5032
FA7028-5	CD123296.D	1	08/07/13	CP	n/a	n/a	GCD5032

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1

CAS No.	Compound	FA7028-5 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.0535	J	0.4	0.428	94	0.422	92	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA7028-5	Limits
460-00-4	4-Bromofluorobenzene	85%	96%	100%	70-131%
98-08-8	aaa-Trifluorotoluene	91%	105%	103%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7055-5MS	CD123317.D	50	08/08/13	CP	n/a	n/a	GCD5033
FA7055-5MSD	CD123318.D	50	08/08/13	CP	n/a	n/a	GCD5033
FA7055-5	CD123316.D	50	08/08/13	CP	n/a	n/a	GCD5033

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-3, FA7055-5

CAS No.	Compound	FA7055-5 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	30.9		20	48.7	89	48.2	87	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA7055-5	Limits
460-00-4	4-Bromofluorobenzene	104%	102%	97%	70-131%
98-08-8	aaa-Trifluorotoluene	110%	106%	94%	69-143%

* = 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: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48181-MB	YY37547.D	1	08/13/13	SJL	08/13/13	OP48181	GYY1377

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1, FA7055-3, FA7055-5

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	95%	50-131%

Blank Spike Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48181-BS	YY37546.D	1	08/13/13	SJL	08/13/13	OP48181	GYY1377

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.995	100	56-123
	TPH (> C22-C36)	1	0.918	92	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	122%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7055
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48181-MS	YY37549.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
OP48181-MSD	YY37550.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377
FA7055-1	YY37548.D	5	08/13/13	SJL	08/13/13	OP48181	GYY1377

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA7055-1, FA7055-3, FA7055-5

CAS No.	Compound	FA7055-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	6.31		1.92	6.79	25* [a]	5.22	-57* [a]	26	56-123/33
	TPH (> C22-C36)	ND		1.92	1.75	91	1.89	98	8	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA7055-1	Limits
84-15-1	o-Terphenyl	101%	104%	128%	50-131%

(a) Outside control limits due to high level in sample relative to spike amount.

8.3.1

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* = 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: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					08/07/13		08/07/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	9.9	<300	3.8	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74				
Manganese	15	.7	.7	0.10	<15	0.0	<15
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

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: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			08/07/13					08/07/13	
Metal	FA7063-1 Original	DUP	RPD	QC Limits	FA7063-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	16900	15500	8.6	0-20	16900	40000	26000	88.8	80-120
Lead	anr								
Magnesium									
Manganese	134	128	4.6	0-20	134	626	500	98.4	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

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: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/13

Metal	FA7063-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	16900	39800	26000	88.1	0.5	20
Lead	anr					
Magnesium						
Manganese	134	624	500	98.0	0.3	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

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: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26200	26000	100.8	80-120
Lead	anr			
Magnesium				
Manganese	512	500	102.4	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/13

Metal	FA7063-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	16900	17200	2.0	0-10
Lead	anr			
Magnesium				
Manganese	134	137	2.5	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP25631
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/13

Metal	Sample ml	Final ml	FA7063-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	16880	16542.4	19300	0.2	150	3000	91.9	80-120
Lead										
Magnesium										
Manganese	9.8	10	134	131.32	179.8	0.2	2.5	50	97.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25631: FA7055-1, FA7055-3, FA7055-5, FA7055-1F, FA7055-3F, FA7055-5F

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

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: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
BOD, 5 Day	GP22248/GN57250	2.0	0.0	mg/l	198	219	110.4	85-115%
Chemical Oxygen Demand	GP22272/GN57205	20	0.0	mg/l	50.0	52.5	105.0	87-122%
Chemical Oxygen Demand	GP22273/GN57206	20	0.0	mg/l	750	708	94.4	87-122%
Chloride	GP22253/GN57169	2.0	0.0	mg/l	50	50.5	101.0	90-110%
Iron, Ferrous	GN57158	0.10	0.0	mg/l	.500	0.50	100.0	82-115%
Nitrogen, Ammonia	GP22292/GN57292	0.10	0.0	mg/l	2.50	2.56	102.4	90-110%
Nitrogen, Nitrate	GP22253/GN57169	0.10	0.0	mg/l	2.5	2.60	104.0	90-110%
Nitrogen, Nitrite	GP22253/GN57169	0.10	0.0	mg/l	2.5	2.64	105.6	90-110%
Nitrogen, Total Kjeldahl	GP22265/GN57221	0.53	0.0	mg/l	2.63	2.82	107.4	90-110%
Solids, Total Dissolved	GN57261	100	14.0	mg/l				
Sulfate	GP22253/GN57169	2.0	0.0	mg/l	50	50.7	101.4	90-110%

Associated Samples:
Batch GN57158: FA7055-1, FA7055-3, FA7055-5
Batch GN57261: FA7055-1, FA7055-3, FA7055-5
Batch GP22248: FA7055-1, FA7055-3, FA7055-5
Batch GP22253: FA7055-1, FA7055-3, FA7055-5
Batch GP22265: FA7055-1, FA7055-3, FA7055-5
Batch GP22272: FA7055-3, FA7055-5
Batch GP22273: FA7055-1
Batch GP22292: FA7055-1, FA7055-3, FA7055-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP22248/GN57250	FA7028-1	mg/l	6.4	7.4	14.8	0-30%
Iron, Ferrous	GN57158	FA7055-5	mg/l	0.62	0.59	4.8	0-31%
Solids, Total Dissolved	GN57261	FA7174-1	mg/l	110	110	0.0	0-5%

Associated Samples:
Batch GN57158: FA7055-1, FA7055-3, FA7055-5
Batch GN57261: FA7055-1, FA7055-3, FA7055-5
Batch GP22248: FA7055-1, FA7055-3, FA7055-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP22272/GN57205	FA7055-3	mg/l	5.3 U	50.0mg/l	62.5	120.0	87-122%
Chemical Oxygen Demand	GP22273/GN57206	FA7055-1	mg/l	115	750	785	89.3	87-122%
Chloride	GP22253/GN57169	FA7056-7	mg/l	4.1	50	52.4	96.6	90-110%
Nitrogen, Ammonia	GP22292/GN57292	FA7124-1	mg/l	1.3	2.50	3.7	96.0	90-110%
Nitrogen, Nitrate	GP22253/GN57169	FA7056-7	mg/l	0.0	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP22253/GN57169	FA7056-7	mg/l	0.0	2.5	2.4	96.0	90-110%
Nitrogen, Total Kjeldahl	GP22265/GN57221	FA7055-1	mg/l	2.6	2.63	5.2	99.0	90-110%
Sulfate	GP22253/GN57169	FA7056-7	mg/l	0.0	50	51.3	102.6	90-110%

Associated Samples:
Batch GP22248: FA7055-1, FA7055-3, FA7055-5
Batch GP22253: FA7055-1, FA7055-3, FA7055-5
Batch GP22265: FA7055-1, FA7055-3, FA7055-5
Batch GP22272: FA7055-3, FA7055-5
Batch GP22273: FA7055-1
Batch GP22292: FA7055-1, FA7055-3, FA7055-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA7055
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chemical Oxygen Demand	GP22272/GN57205	FA7055-3	mg/l	5.3 U	50.0	57.5	8.3	26%
Chemical Oxygen Demand	GP22273/GN57206	FA7055-1	mg/l	115	750	766	2.5	26%
Chloride	GP22253/GN57169	FA7056-7	mg/l	4.1	50	50.4	3.9	20%
Nitrogen, Ammonia	GP22292/GN57292	FA7124-1	mg/l	1.3	2.5	3.8	2.7	20%
Nitrogen, Nitrate	GP22253/GN57169	FA7056-7	mg/l	0.0	2.5	2.4	0.0	20%
Nitrogen, Nitrite	GP22253/GN57169	FA7056-7	mg/l	0.0	2.5	2.3	4.3	20%
Nitrogen, Total Kjeldahl	GP22265/GN57221	FA7055-1	mg/l	2.6	2.63	5.3	1.9	20%
Sulfate	GP22253/GN57169	FA7056-7	mg/l	0.0	50	47.9	6.9	20%

Associated Samples:
Batch GP22253: FA7055-1, FA7055-3, FA7055-5
Batch GP22265: FA7055-1, FA7055-3, FA7055-5
Batch GP22272: FA7055-3, FA7055-5
Batch GP22273: FA7055-1
Batch GP22292: FA7055-1, FA7055-3, FA7055-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

11/27/13

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA9884

Sampling Date: 11/11/13

Report to:

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

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Accutest Laboratories

Sample Summary

Nation View

Job No: FA9884

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA9884-1	11/11/13	09:05	TLBP	11/12/13	AQ	Ground Water	SS17-MW05
FA9884-1F	11/11/13	09:05	TLBP	11/12/13	AQ	Groundwater Filtered	SS17-MW05
FA9884-2	11/11/13	10:30	TLBP	11/12/13	AQ	Ground Water	SS17-MW07
FA9884-2F	11/11/13	10:30	TLBP	11/12/13	AQ	Groundwater Filtered	SS17-MW07
FA9884-3	11/11/13	00:00	TLBP	11/12/13	AQ	Trip Blank Water	TRIP BLANK
FA9884-4	11/11/13	00:00	TLBP	11/12/13	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA9884
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA9884-1	**SS17-MW05**					
n-Butylbenzene		17.8 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		14.1 J	50	11	ug/l	SW846 8260B
Ethylbenzene		3450	50	15	ug/l	SW846 8260B
Isopropylbenzene		90.6	50	10	ug/l	SW846 8260B
Naphthalene		732	250	50	ug/l	SW846 8260B
n-Propylbenzene		278	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		118	100	10	ug/l	SW846 8260B
m,p-Xylene		469	100	15	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate		28.9	19	4.4	ug/l	SW846 8270D
1-Methylnaphthalene		46.3	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene		43.9	19	2.6	ug/l	SW846 8270D
Naphthalene		282	19	2.4	ug/l	SW846 8270D
TPH-GRO (C6-C10)		9.01	1.0	0.50	mg/l	SW846 8015C
TPH (C10-C22)		3.13	2.4	0.96	mg/l	SW846 8015C
Iron		1680	300	29	ug/l	SW846 6010C
Manganese		389	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		15.2	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		90.0	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide [a]		20.0	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [b]		1.5	0.40	0.059	mg/l	SM18 3500FED M
Iron, Ferrous [c]		0.23	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.53	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3640	200	20	mg/l	SM19 2540C
Sulfate		2010	50	15	mg/l	EPA 300/SW846 9056A
FA9884-1F	**SS17-MW05**					
Manganese		385	15	0.70	ug/l	SW846 6010C
FA9884-2	**SS17-MW07**					
sec-Butylbenzene		5.6	1.0	0.21	ug/l	SW846 8260B
tert-Butylbenzene		0.54 J	1.0	0.29	ug/l	SW846 8260B
Ethylbenzene		4.6	1.0	0.29	ug/l	SW846 8260B
Isopropylbenzene		0.84 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene		2.7 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		0.75 J	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.35 J	2.0	0.20	ug/l	SW846 8260B
Toluene		0.44 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		1.7 J	2.0	0.30	ug/l	SW846 8260B
o-Xylene		0.50 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene		2.3 J	4.8	0.61	ug/l	SW846 8270D

Summary of Hits

Job Number: FA9884
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH-GRO (C6-C10)		0.393	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.636	0.24	0.097	mg/l	SW846 8015C
Iron		459	300	29	ug/l	SW846 6010C
Manganese		586	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		5.1	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		12.5 J	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide [a]		2.5	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferrous [c]		0.52	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.15	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		1.5	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		0.56	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2750	200	20	mg/l	SM19 2540C
Sulfate		1640	50	15	mg/l	EPA 300/SW846 9056A
FA9884-2F	**SS17-MW07**					
Manganese		567	15	0.70	ug/l	SW846 6010C
FA9884-3	**TRIP BLANK**					
Methylene chloride		2.4 J	5.0	2.0	ug/l	SW846 8260B
FA9884-4	**TRIP BLANK**					
Toluene		0.22 J	1.0	0.20	ug/l	SW846 8260B

(a) Sample analyzed beyond hold time.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20619.D	50	11/18/13	EG	n/a	n/a	VP778
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	1300	500	ug/l	
107-02-8	Acrolein	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	17.8	50	10	ug/l	J
135-98-8	sec-Butylbenzene	14.1	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	3450	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	90.6	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	732	250	50	ug/l	
103-65-1	n-Propylbenzene	278	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	118	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	ND	50	10	ug/l	
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	469	100	15	ug/l	
95-47-6	o-Xylene	ND	50	10	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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031725.D	4	11/19/13	NAF	11/14/13	OP49439	SX1504
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	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	19	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	95	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.7	ug/l	
	3&4-Methylphenol	ND	19	5.3	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	95	19	ug/l	
87-86-5	Pentachlorophenol	ND	95	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.6	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.8	ug/l	
92-87-5	Benzidine	ND	95	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.6	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.7	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.6	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	3.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.8	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	28.9	19	4.4	ug/l	
206-44-0	Fluoranthene	ND	19	2.2	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.4	ug/l	
90-12-0	1-Methylnaphthalene	46.3	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	43.9	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	282	19	2.4	ug/l	
98-95-3	Nitrobenzene	ND	19	2.7	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	78%		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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125145.D	10	11/13/13	CP	n/a	n/a	GCD5106
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	9.01	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	114%		70-131%
98-08-8	aaa-Trifluorotoluene	133%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39349.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447
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)	3.13	2.4	0.96	mg/l	
	TPH (> C22-C36)	ND	2.4	0.96	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	121%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1680	300	29	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	389	15	0.70	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26396

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:	SS17-MW05		
Lab Sample ID:	FA9884-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	15.2	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	90.0	20	5.3	mg/l	1	11/15/13 08:00	LE	SM19 5220C
Hydrogen Sulfide [a]	20.0	1.0	0.50	mg/l	1	11/19/13 14:30	LE	SM18 4500/EPA 376.1
Iron, Ferric [b]	1.5	0.40	0.059	mg/l	1	11/21/13 17:51	LM	SM18 3500FED M
Iron, Ferrous [c]	0.23	0.10	0.030	mg/l	1	11/12/13 10:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.53	0.10	0.030	mg/l	1	11/14/13 14:49	MG	EPA 350.1
Nitrogen, Nitrate [d]	1.3 U	2.5	1.3	mg/l	25	11/12/13 13:37	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	11/22/13 08:53	MG	EPA 351.2
Solids, Total Dissolved	3640	200	20	mg/l	2	11/18/13 11:00	KC	SM19 2540C
Sulfate	2010	50	15	mg/l	25	11/12/13 13:37	AA	EPA 300/SW846 9056A

(a) Sample analyzed beyond hold time.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW05		
Lab Sample ID:	FA9884-1F	**Date Sampled:**	11/11/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	385	15	0.70	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26396

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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20608.D	1	11/18/13	EG	n/a	n/a	VP778
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	5.6	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.54	1.0	0.29	ug/l	J
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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	4.6	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.84	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	2.7	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	0.75	1.0	0.23	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.35	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.44	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	1.7	2.0	0.30	ug/l	J
95-47-6	o-Xylene	0.50	1.0	0.20	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031726.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
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	0.67	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.77	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.73	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.64	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.85	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.66	ug/l	
62-53-3	Aniline	ND	4.8	0.74	ug/l	
120-12-7	Anthracene	ND	4.8	0.71	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.54	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.75	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.69	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.65	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.66	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.68	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.75	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.83	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.61	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.74	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.65	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.70	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.71	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.65	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.91	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.67	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.92	ug/l	
91-20-3	Naphthalene	2.3	4.8	0.61	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.67	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125146.D	1	11/13/13	CP	n/a	n/a	GCD5106
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.393	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39360.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447
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)	0.636	0.24	0.097	mg/l	
	TPH (> C22-C36)	ND	0.24	0.097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	459	300	29	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	586	15	0.70	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26396

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:	SS17-MW07		
Lab Sample ID:	FA9884-2	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	5.1	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	12.5 J	20	5.3	mg/l	1	11/15/13 08:00	LE	SM19 5220C
Hydrogen Sulfide [a]	2.5	1.0	0.50	mg/l	1	11/19/13 14:30	LE	SM18 4500/EPA 376.1
Iron, Ferric [b]	0.059 U	0.40	0.059	mg/l	1	11/21/13 18:04	LM	SM18 3500FED M
Iron, Ferrous [c]	0.52	0.10	0.030	mg/l	1	11/12/13 10:30	LE	SM18 3500FED
Nitrogen, Ammonia	0.15	0.10	0.030	mg/l	1	11/14/13 14:50	MG	EPA 350.1
Nitrogen, Nitrate	1.5	1.0	0.50	mg/l	10	11/12/13 13:53	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.56	0.53	0.17	mg/l	1	11/22/13 08:55	MG	EPA 351.2
Solids, Total Dissolved	2750	200	20	mg/l	2	11/18/13 11:00	KC	SM19 2540C
Sulfate	1640	50	15	mg/l	25	11/12/13 16:04	AA	EPA 300/SW846 9056A

(a) Sample analyzed beyond hold time.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.

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:	SS17-MW07		
Lab Sample ID:	FA9884-2F	**Date Sampled:**	11/11/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/12/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	567	15	0.70	ug/l	1	11/20/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26396

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:	FA9884-3	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20604.D	1	11/18/13	EG	n/a	n/a	VP778
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9884-3	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	2.4	5.0	2.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9884-3	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(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:	TRIP BLANK		
Lab Sample ID:	FA9884-4	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20605.D	1	11/18/13	EG	n/a	n/a	VP778
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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9884-4	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	0.22	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9884-4	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/12/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(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:

- Chain of Custody

NATIONVIEW

FA9884

Page: 1 of 1
Project No: 11.0019
COC Number(1): 11112013
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: T Lucero / B Parrish

Sample Analysis Requested (5)

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SS17-MW05	SS17-MW05	11-Nov-13	0905	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒							1	1
SS17-MW07	SS17-MW07	11-Nov-13	1030	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒							2	2
TRIP BLANK	Field QC	11-Nov-13		-	TB		AQ	1	☒																3	1
TRIP BLANK	Field QC	11-Nov-13		-	TB		AQ	1	☒																4	2
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	11/11/2013	1500	1. FE		
2. FE	11-12-13	930	2. [signature]	11-12-13	930
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 797127731672 / 797127731580
Delivery Location: Orlando FL
Delivery Date/Time:

2.4 lcs

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

FA9884: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA9884 CLIENT: Nations View PROJECT: SS-17

DATE/TIME RECEIVED: 11-12-13 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7971 2773 1672

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 2
- [ ] 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: 1.8 1.4
- [ ] CORRECTED TEMPS: 2.2 1.8

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
- [x] 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: Sample #2 Received 1 Number 8270 Broken

TECHNICIAN SIGNATURE/DATE [signature] 11-12-13 REVIEWER SIGNATURE/DATE [signature] 11/12/13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA9884: 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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	233	186*	50-147
107-02-8	Acrolein	125	93.3	75	31-154
107-13-1	Acrylonitrile	125	121	97	58-126
71-43-2	Benzene	25	26.4	106	81-122
108-86-1	Bromobenzene	25	25.1	100	80-121
74-97-5	Bromochloromethane	25	22.9	92	76-123
75-27-4	Bromodichloromethane	25	26.4	106	79-123
75-25-2	Bromoform	25	24.8	99	66-123
104-51-8	n-Butylbenzene	25	25.4	102	79-126
135-98-8	sec-Butylbenzene	25	31.5	126	83-133
98-06-6	tert-Butylbenzene	25	29.7	119	80-133
108-90-7	Chlorobenzene	25	28.8	115	82-124
75-00-3	Chloroethane	25	26.5	106	62-144
67-66-3	Chloroform	25	25.7	103	80-124
95-49-8	o-Chlorotoluene	25	29.2	117	81-127
106-43-4	p-Chlorotoluene	25	30.7	123	83-130
110-75-8	2-Chloroethyl vinyl ether	125	89.8	72	56-122
75-15-0	Carbon disulfide	25	23.1	92	66-148
56-23-5	Carbon tetrachloride	25	28.0	112	76-136
75-34-3	1,1-Dichloroethane	25	27.1	108	81-122
75-35-4	1,1-Dichloroethylene	25	28.7	115	78-137
563-58-6	1,1-Dichloropropene	25	28.8	115	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.6	102	64-123
106-93-4	1,2-Dibromoethane	25	26.0	104	75-120
107-06-2	1,2-Dichloroethane	25	26.9	108	75-125
78-87-5	1,2-Dichloropropane	25	27.1	108	76-124
142-28-9	1,3-Dichloropropane	25	26.1	104	80-118
594-20-7	2,2-Dichloropropane	25	27.2	109	74-139
124-48-1	Dibromochloromethane	25	25.7	103	78-122
75-71-8	Dichlorodifluoromethane	25	41.4	166	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.5	102	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.8	103	75-118
541-73-1	m-Dichlorobenzene	25	29.7	119	84-125
95-50-1	o-Dichlorobenzene	25	28.0	112	82-124
106-46-7	p-Dichlorobenzene	25	27.1	108	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.7	111	80-120
100-41-4	Ethylbenzene	25	27.2	109	81-121
591-78-6	2-Hexanone	125	161	129	61-129
87-68-3	Hexachlorobutadiene	25	27.0	108	75-142
98-82-8	Isopropylbenzene	25	29.1	116	83-132
99-87-6	p-Isopropyltoluene	25	30.7	123	79-130
108-10-1	4-Methyl-2-pentanone	125	125	100	66-122
74-83-9	Methyl bromide	25	26.3	105	59-143
74-87-3	Methyl chloride	25	32.2	129	50-159
74-95-3	Methylene bromide	25	23.7	95	78-119
75-09-2	Methylene chloride	25	26.5	106	69-135
78-93-3	Methyl ethyl ketone	125	156	125	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.0	92	72-117
91-20-3	Naphthalene	25	24.8	99	63-132
103-65-1	n-Propylbenzene	25	30.0	120	82-133
100-42-5	Styrene	25	27.4	110	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.2	105	77-122
71-55-6	1,1,1-Trichloroethane	25	28.5	114	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	25.1	100	72-120
79-00-5	1,1,2-Trichloroethane	25	24.7	99	76-119
87-61-6	1,2,3-Trichlorobenzene	25	24.7	99	68-131
96-18-4	1,2,3-Trichloropropane	25	24.1	96	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.6	98	73-129
95-63-6	1,2,4-Trimethylbenzene	25	27.5	110	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.5	110	79-120
127-18-4	Tetrachloroethylene	25	29.7	119	76-135
108-88-3	Toluene	25	27.1	108	80-120
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	25.9	104	71-156
75-01-4	Vinyl chloride	25	30.6	122	69-159
108-05-4	Vinyl Acetate	125	118	94	43-154
	m,p-Xylene	50	58.0	116	79-126
95-47-6	o-Xylene	25	27.9	112	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	FA9884-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	110	88	99.5	80	10	50-147/21
107-02-8	Acrolein	ND		125	75.4	60	76.4	61	1	31-154/29
107-13-1	Acrylonitrile	ND		125	112	90	119	95	6	58-126/16
71-43-2	Benzene	ND		25	26.5	106	26.3	105	1	81-122/14
108-86-1	Bromobenzene	ND		25	24.1	96	23.6	94	2	80-121/14
74-97-5	Bromochloromethane	ND		25	22.7	91	24.0	96	6	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.7	103	23.7	95	8	79-123/19
75-25-2	Bromoform	ND		25	20.5	82	19.4	78	6	66-123/21
104-51-8	n-Butylbenzene	ND		25	26.2	105	24.8	99	5	79-126/16
135-98-8	sec-Butylbenzene	5.6		25	36.8	125	36.1	122	2	83-133/16
98-06-6	tert-Butylbenzene	0.54	J	25	30.2	119	30.1	118	0	80-133/16
108-90-7	Chlorobenzene	ND		25	28.1	112	28.0	112	0	82-124/14
75-00-3	Chloroethane	ND		25	26.7	107	26.8	107	0	62-144/20
67-66-3	Chloroform	ND		25	25.6	102	25.2	101	2	80-124/15
95-49-8	o-Chlorotoluene	ND		25	28.7	115	28.6	114	0	81-127/15
106-43-4	p-Chlorotoluene	ND		25	29.6	118	29.1	116	2	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	ND		25	21.9	88	21.2	85	3	66-148/23
56-23-5	Carbon tetrachloride	ND		25	26.1	104	23.3	93	11	76-136/23
75-34-3	1,1-Dichloroethane	ND		25	26.6	106	26.3	105	1	81-122/15
75-35-4	1,1-Dichloroethylene	ND		25	26.9	108	28.7	115	6	78-137/18
563-58-6	1,1-Dichloropropene	ND		25	28.2	113	26.8	107	5	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	27.5	110	27.4	110	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	25.4	102	26.1	104	3	75-120/13
107-06-2	1,2-Dichloroethane	ND		25	26.1	104	26.1	104	0	75-125/14
78-87-5	1,2-Dichloropropane	ND		25	26.7	107	27.1	108	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	25.2	101	26.4	106	5	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	28.1	112	26.2	105	7	74-139/17
124-48-1	Dibromochloromethane	ND		25	23.3	93	21.2	85	9	78-122/19
75-71-8	Dichlorodifluoromethane	ND		25	38.1	152	40.5	162	6	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.1	96	24.5	98	2	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.7	87	20.5	82	6	75-118/23
541-73-1	m-Dichlorobenzene	ND		25	28.6	114	28.3	113	1	84-125/14
95-50-1	o-Dichlorobenzene	ND		25	27.0	108	26.9	108	0	82-124/14
106-46-7	p-Dichlorobenzene	ND		25	26.5	106	25.7	103	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.1	104	26.1	104	0	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Compound	FA9884-2 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	ND		25	21.8	87	20.8	83	5	80-120/22
100-41-4	Ethylbenzene	4.6		25	30.3	103	29.2	98	4	81-121/14
591-78-6	2-Hexanone	ND		125	115	92	124	99	8	61-129/18
87-68-3	Hexachlorobutadiene	ND		25	26.6	106	26.2	105	2	75-142/19
98-82-8	Isopropylbenzene	0.84	J	25	29.3	114	28.9	112	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	29.5	118	29.1	116	1	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		125	119	95	131	105	10	66-122/16
74-83-9	Methyl bromide	ND		25	25.0	100	25.5	102	2	59-143/19
74-87-3	Methyl chloride	ND		25	27.6	110	30.6	122	10	50-159/19
74-95-3	Methylene bromide	ND		25	24.3	97	24.8	99	2	78-119/14
75-09-2	Methylene chloride	ND		25	26.7	107	27.0	108	1	69-135/16
78-93-3	Methyl ethyl ketone	ND		125	124	99	134	107	8	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.3	89	23.4	94	5	72-117/14
91-20-3	Naphthalene	2.7	J	25	31.9	117	33.2	122	4	63-132/25
103-65-1	n-Propylbenzene	0.75	J	25	29.7	116	29.6	115	0	82-133/15
100-42-5	Styrene	ND		25	20.1	80	20.7	83	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	25.8	103	24.8	99	4	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		25	27.8	111	27.4	110	1	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.3	101	26.3	105	4	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		25	28.0	112	28.8	115	3	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.9	100	26.0	104	4	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		25	26.2	105	28.1	112	7	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.6	106	27.1	108	2	73-129/20
95-63-6	1,2,4-Trimethylbenzene	0.35	J	25	27.4	108	26.3	104	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	26.3	105	25.9	104	2	79-120/19
127-18-4	Tetrachloroethylene	ND		25	22.5	90	22.7	91	1	76-135/16
108-88-3	Toluene	0.44	J	25	26.0	102	25.8	101	1	80-120/14
79-01-6	Trichloroethylene	ND		25	27.7	111	28.0	112	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	24.1	96	24.3	97	1	71-156/21
75-01-4	Vinyl chloride	ND		25	28.3	113	29.0	116	2	69-159/18
108-05-4	Vinyl Acetate	ND		125	124	99	129	103	4	43-154/14
	m,p-Xylene	1.7	J	50	57.7	112	56.9	110	1	79-126/15
95-47-6	o-Xylene	0.50	J	25	28.3	111	27.7	109	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9884-1, FA9884-2, FA9884-3, FA9884-4

CAS No.	Surrogate Recoveries	MS	MSD	FA9884-2	Limits
1868-53-7	Dibromofluoromethane	97%	98%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	94%	101%	79-125%
2037-26-5	Toluene-D8	97%	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	95%	95%	98%	83-118%

* = 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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	34%	14-67%
4165-62-2	Phenol-d5	20%	10-50%
118-79-6	2,4,6-Tribromophenol	73%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	35.7	71	52-98
59-50-7	4-Chloro-3-methyl phenol	50	35.2	70	54-103
120-83-2	2,4-Dichlorophenol	50	36.3	73	53-103
105-67-9	2,4-Dimethylphenol	50	31.6	63	43-90
51-28-5	2,4-Dinitrophenol	100	69.7	70	44-112
534-52-1	4,6-Dinitro-o-cresol	100	80.9	81	66-121
95-48-7	2-Methylphenol	50	31.9	64	43-90
	3&4-Methylphenol	100	61.0	61	36-88
88-75-5	2-Nitrophenol	50	36.0	72	53-102
100-02-7	4-Nitrophenol	100	28.4	28	18-62
87-86-5	Pentachlorophenol	100	86.2	86	61-115
108-95-2	Phenol	50	14.4	29	19-56
95-95-4	2,4,5-Trichlorophenol	50	42.6	85	62-109
88-06-2	2,4,6-Trichlorophenol	50	42.0	84	59-107
83-32-9	Acenaphthene	50	42.7	85	61-107
208-96-8	Acenaphthylene	50	43.4	87	60-104
62-53-3	Aniline	50	32.7	65	47-100
120-12-7	Anthracene	50	42.8	86	65-108
92-87-5	Benzidine	50	31.9	64	25-99
56-55-3	Benzo(a)anthracene	50	42.8	86	66-111
50-32-8	Benzo(a)pyrene	50	42.4	85	62-107
205-99-2	Benzo(b)fluoranthene	50	44.5	89	65-114
191-24-2	Benzo(g,h,i)perylene	50	46.9	94	66-116
207-08-9	Benzo(k)fluoranthene	50	44.7	89	65-114
101-55-3	4-Bromophenyl phenyl ether	50	36.2	72	65-109
85-68-7	Butyl benzyl phthalate	50	43.9	88	65-112
100-51-6	Benzyl Alcohol	50	30.8	62	46-94
91-58-7	2-Chloronaphthalene	50	40.7	81	57-103
106-47-8	4-Chloroaniline	50	33.4	67	49-105
86-74-8	Carbazole	50	37.1	74	59-113
218-01-9	Chrysene	50	45.3	91	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	36.6	73	51-102
111-44-4	bis(2-Chloroethyl)ether	50	38.9	78	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	38.8	78	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	40.8	82	62-105
95-50-1	1,2-Dichlorobenzene	50	37.5	75	48-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
122-66-7	1,2-Diphenylhydrazine	50	42.0	84	61-110
541-73-1	1,3-Dichlorobenzene	50	37.2	74	45-95
106-46-7	1,4-Dichlorobenzene	50	38.8	78	45-98
121-14-2	2,4-Dinitrotoluene	50	39.8	80	61-110
606-20-2	2,6-Dinitrotoluene	50	40.6	81	63-108
91-94-1	3,3'-Dichlorobenzidine	50	40.6	81	46-117
53-70-3	Dibenzo(a,h)anthracene	50	43.9	88	66-119
132-64-9	Dibenzofuran	50	38.7	77	61-106
84-74-2	Di-n-butyl phthalate	50	40.4	81	65-107
117-84-0	Di-n-octyl phthalate	50	44.2	88	62-118
84-66-2	Diethyl phthalate	50	40.7	81	64-108
131-11-3	Dimethyl phthalate	50	39.9	80	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.0	88	61-117
206-44-0	Fluoranthene	50	40.1	80	63-106
86-73-7	Fluorene	50	43.9	88	62-108
118-74-1	Hexachlorobenzene	50	41.9	84	63-108
87-68-3	Hexachlorobutadiene	50	38.1	76	42-102
77-47-4	Hexachlorocyclopentadiene	50	31.4	63	39-102
67-72-1	Hexachloroethane	50	39.3	79	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	43.1	86	64-119
78-59-1	Isophorone	50	34.7	69	43-87
90-12-0	1-Methylnaphthalene	50	37.4	75	53-102
91-57-6	2-Methylnaphthalene	50	33.5	67	51-102
88-74-4	2-Nitroaniline	50	39.9	80	54-128
99-09-2	3-Nitroaniline	50	37.2	74	56-106
100-01-6	4-Nitroaniline	50	37.4	75	55-120
91-20-3	Naphthalene	50	38.2	76	47-100
98-95-3	Nitrobenzene	50	35.7	71	50-104
62-75-9	N-Nitrosodimethylamine	50	24.5	49	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	38.9	78	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.4	83	64-108
85-01-8	Phenanthrene	50	43.8	88	66-110
129-00-0	Pyrene	50	46.8	94	64-113
110-86-1	Pyridine	50	19.5	39	23-74
120-82-1	1,2,4-Trichlorobenzene	50	34.7	69	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-67%
4165-62-2	Phenol-d5	30%	10-50%
118-79-6	2,4,6-Tribromophenol	86%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	83%	40-106%
1718-51-0	Terphenyl-d14	97%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Compound	FA9962-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	4.9 U		96.2	61.8	64	54.0	56	13	52-98/25
59-50-7	4-Chloro-3-methyl phenol	4.9 U		96.2	65.9	69	61.1	64	8	54-103/23
120-83-2	2,4-Dichlorophenol	4.9 U		96.2	62.8	65	58.2	61	8	53-103/26
105-67-9	2,4-Dimethylphenol	4.9 U		96.2	56.5	59	52.2	54	8	43-90/27
51-28-5	2,4-Dinitrophenol	24 U		192	130	68	132	69	2	44-112/25
534-52-1	4,6-Dinitro-o-cresol	9.7 U		192	145	75	146	76	1	66-121/23
95-48-7	2-Methylphenol	4.9 U		96.2	58.3	61	54.7	57	6	43-90/28
	3&4-Methylphenol	4.9 U		192	119	62	111	58	7	36-88/28
88-75-5	2-Nitrophenol	4.9 U		96.2	62.6	65	57.3	60	9	53-102/29
100-02-7	4-Nitrophenol	24 U		192	67.1	35	81.7	42	20	18-62/33
87-86-5	Pentachlorophenol	24 U		192	157	82	149	77	5	61-115/26
108-95-2	Phenol	4.9 U		96.2	32.0	33	33.9	35	6	19-56/35
95-95-4	2,4,5-Trichlorophenol	4.9 U		96.2	73.5	76	70.4	73	4	62-109/22
88-06-2	2,4,6-Trichlorophenol	4.9 U		96.2	73.4	76	69.8	73	5	59-107/23
83-32-9	Acenaphthene	4.9 U		96.2	75.6	79	71.0	74	6	61-107/22
208-96-8	Acenaphthylene	4.9 U		96.2	75.8	79	72.5	75	4	60-104/22
62-53-3	Aniline	4.9 U		96.2	56.7	59	50.2	52	12	47-100/30
120-12-7	Anthracene	4.9 U		96.2	76.9	80	72.9	76	5	65-108/20
92-87-5	Benzidine	24 U		96.2	21.0	22*	23.7	25	12	25-99/31
56-55-3	Benzo(a)anthracene	4.9 U		96.2	74.8	78	71.5	74	5	66-111/22
50-32-8	Benzo(a)pyrene	4.9 U		96.2	73.5	76	70.4	73	4	62-107/23
205-99-2	Benzo(b)fluoranthene	4.9 U		96.2	75.9	79	72.4	75	5	65-114/23
191-24-2	Benzo(g,h,i)perylene	4.9 U		96.2	79.2	82	68.6	71	14	66-116/23
207-08-9	Benzo(k)fluoranthene	4.9 U		96.2	78.5	82	75.2	78	4	65-114/24
101-55-3	4-Bromophenyl phenyl ether	4.9 U		96.2	62.9	65	62.6	65	0	65-109/23
85-68-7	Butyl benzyl phthalate	4.9 U		96.2	74.4	77	73.6	77	1	65-112/24
100-51-6	Benzyl Alcohol	4.9 U		96.2	57.5	60	52.8	55	9	46-94/27
91-58-7	2-Chloronaphthalene	4.9 U		96.2	70.6	73	67.1	70	5	57-103/23
106-47-8	4-Chloroaniline	4.9 U		96.2	60.2	63	55.2	57	9	49-105/27
86-74-8	Carbazole	4.9 U		96.2	68.6	71	62.1	65	10	59-113/21
218-01-9	Chrysene	4.9 U		96.2	79.1	82	75.3	78	5	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	4.9 U		96.2	63.9	66	58.6	61	9	51-102/28
111-44-4	bis(2-Chloroethyl)ether	4.9 U		96.2	64.2	67	57.0	59	12	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	4.9 U		96.2	65.2	68	57.2	59	13	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	4.9 U		96.2	70.1	73	66.9	70	5	62-105/20
95-50-1	1,2-Dichlorobenzene	4.9 U		96.2	64.2	67	55.3	58	15	48-97/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Compound	FA9962-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	4.9 U		96.2	71.9	75	71.5	74	1	61-110/24
541-73-1	1,3-Dichlorobenzene	4.9 U		96.2	64.3	67	56.5	59	13	45-95/25
106-46-7	1,4-Dichlorobenzene	4.9 U		96.2	66.7	69	59.1	61	12	45-98/25
121-14-2	2,4-Dinitrotoluene	4.9 U		96.2	70.7	74	67.8	71	4	61-110/21
606-20-2	2,6-Dinitrotoluene	4.9 U		96.2	71.1	74	67.8	71	5	63-108/21
91-94-1	3,3'-Dichlorobenzidine	4.9 U		96.2	69.0	72	63.4	66	8	46-117/29
53-70-3	Dibenzo(a,h)anthracene	4.9 U		96.2	76.2	79	64.1	67	17	66-119/24
132-64-9	Dibenzofuran	4.9 U		96.2	67.8	71	63.7	66	6	61-106/21
84-74-2	Di-n-butyl phthalate	4.9 U		96.2	73.5	76	68.1	71	8	65-107/21
117-84-0	Di-n-octyl phthalate	4.9 U		96.2	73.8	77	75.2	78	2	62-118/24
84-66-2	Diethyl phthalate	4.9 U		96.2	72.4	75	69.2	72	5	64-108/21
131-11-3	Dimethyl phthalate	4.9 U		96.2	70.3	73	66.8	69	5	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	4.9 U		96.2	74.3	77	73.8	77	1	61-117/23
206-44-0	Fluoranthene	4.9 U		96.2	77.4	80	68.7	71	12	63-106/21
86-73-7	Fluorene	4.9 U		96.2	78.9	82	74.4	77	6	62-108/20
118-74-1	Hexachlorobenzene	4.9 U		96.2	73.9	77	72.7	76	2	63-108/22
87-68-3	Hexachlorobutadiene	4.9 U		96.2	66.9	70	61.2	64	9	42-102/28
77-47-4	Hexachlorocyclopentadiene	4.9 U		96.2	53.0	55	51.8	54	2	39-102/29
67-72-1	Hexachloroethane	4.9 U		96.2	66.6	69	58.2	61	13	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.9 U		96.2	68.1	71	63.6	66	7	64-119/24
78-59-1	Isophorone	4.9 U		96.2	62.8	65	57.9	60	8	43-87/25
90-12-0	1-Methylnaphthalene	4.9 U		96.2	67.9	71	61.4	64	10	53-102/27
91-57-6	2-Methylnaphthalene	4.9 U		96.2	59.1	61	54.0	56	9	51-102/26
88-74-4	2-Nitroaniline	4.9 U		96.2	69.7	72	64.9	67	7	54-128/24
99-09-2	3-Nitroaniline	4.9 U		96.2	67.2	70	62.1	65	8	56-106/27
100-01-6	4-Nitroaniline	4.9 U		96.2	68.6	71	62.4	65	9	55-120/24
91-20-3	Naphthalene	4.9 U		96.2	67.5	70	61.2	64	10	47-100/29
98-95-3	Nitrobenzene	4.9 U		96.2	61.8	64	55.8	58	10	50-104/28
62-75-9	N-Nitrosodimethylamine	4.9 U		96.2	51.9	54	49.5	51	5	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	4.9 U		96.2	66.5	69	60.7	63	9	52-104/25
86-30-6	N-Nitrosodiphenylamine	4.9 U		96.2	73.0	76	70.1	73	4	64-108/23
85-01-8	Phenanthrene	4.9 U		96.2	77.4	80	73.9	77	5	66-110/21
129-00-0	Pyrene	4.9 U		96.2	73.3	76	78.3	81	7	64-113/23
110-86-1	Pyridine	9.7 U		96.2	38.0	40	36.2	38	5	23-74/34
120-82-1	1,2,4-Trichlorobenzene	4.9 U		96.2	61.4	64	55.2	57	11	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9884-1, FA9884-2

CAS No.	Surrogate Recoveries	MS	MSD	FA9962-1	Limits
367-12-4	2-Fluorophenol	47%	47%	36%	14-67%
4165-62-2	Phenol-d5	33%	36%	23%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	75%	82%	33-118%
4165-60-0	Nitrobenzene-d5	67%	61%	72%	42-108%
321-60-8	2-Fluorobiphenyl	75%	71%	73%	40-106%
1718-51-0	Terphenyl-d14	81%	84%	87%	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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5106-MB	CD125120.D	1	11/13/13	CP	n/a	n/a	GCD5106

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

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	82%	70-131%
98-08-8	aaa-Trifluorotoluene	90%	69-143%

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5106-BS	CD125119.D	1	11/13/13	CP	n/a	n/a	GCD5106

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.406	102	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	70-131%
98-08-8	aaa-Trifluorotoluene	103%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9801-1MS	CD125127.D	1	11/13/13	CP	n/a	n/a	GCD5106
FA9801-1MSD	CD125128.D	1	11/13/13	CP	n/a	n/a	GCD5106
FA9801-1	CD125121.D	1	11/13/13	CP	n/a	n/a	GCD5106

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

CAS No.	Compound	FA9801-1 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	0.439	110	0.423	106	4	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA9801-1	Limits
460-00-4	4-Bromofluorobenzene	95%	91%	87%	70-131%
98-08-8	aaa-Trifluorotoluene	113%	102%	93%	69-143%

* = 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: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-MB	YY39348.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

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	98%	50-131%

Blank Spike Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-BS	YY39347.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.899	90	56-123
	TPH (> C22-C36)	1	1.07	107	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	120%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9884
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-MS	YY39350.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447
OP49455-MSD	YY39351.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447
FA9884-1	YY39349.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9884-1, FA9884-2

CAS No.	Compound	FA9884-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	3.13		0.962	2.21	-96* [a]	2.61	-54* [a]	17	56-123/33
	TPH (> C22-C36)	ND		0.962	1.10	114	1.39	145*	23	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA9884-1	Limits
84-15-1	o-Terphenyl	111%	144%* [b]	121%	50-131%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.

8.3.1

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* = 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: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					11/20/13		11/20/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29	36.2	<300	4.0	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74				
Manganese	15	.7	.7	0.30	<15	0.10	<15
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

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: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	11/20/13				11/20/13				
Metal	FA10117-1 Original	DUP	RPD	QC Limits	FA10117-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	1360	1360	0.0	0-20	1360	27500	26000	100.5	80-120
Lead	anr								
Magnesium	anr								
Manganese	40.7	41.1	1.0	0-20	40.7	542	500	100.3	80-120
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/20/13

Metal	FA10117-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	1360	28000	26000	102.5	1.8	20
Lead	anr					
Magnesium	anr					
Manganese	40.7	542	500	100.3	0.0	20
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

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: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/20/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	27400	26000	105.4	80-120
Lead	anr			
Magnesium	anr			
Manganese	510	500	102.0	80-120
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/20/13

Metal	FA10117-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	1360	1480	8.7	0-10
Lead	anr			
Magnesium	anr			
Manganese	40.7	42.9	5.4	0-10
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26396
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/20/13

Metal	Sample ml	Final ml	FA10117-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	1358	1330.84	4295	0.2	150	3000	98.8	80-120
Lead										
Magnesium										
Manganese	9.8	10	40.7	39.886	90.4	0.2	2.5	50	101.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP26396: FA9884-1, FA9884-2, FA9884-1F, FA9884-2F

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

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: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
BOD, 5 Day	GP22919/GN58888	2.0	0.0	mg/l	198	185	93.4	85-115%
Chemical Oxygen Demand	GP22910/GN58870	20	0.0	mg/l	50.0	52.5	105.0	87-122%
Chloride	GP22896/GN58832	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP22896/GN58832	0.20	0.0	mg/l	2.5	2.47	98.8	90-110%
Iron, Ferrous	GN58816	0.10	0.0	mg/l	.500	0.54	108.0	82-115%
Nitrogen, Ammonia	GP22902/GN58862	0.10	0.0	mg/l	2.5	2.66	106.4	90-110%
Nitrogen, Nitrate	GP22896/GN58832	0.10	0.0	mg/l	2.5	2.52	100.8	90-110%
Nitrogen, Nitrite	GP22896/GN58832	0.10	0.0	mg/l	2.5	2.47	98.8	90-110%
Nitrogen, Total Kjeldahl	GP22961/GN58980	0.53	0.0	mg/l	2.63	2.64	100.6	90-110%
Solids, Total Dissolved	GN58889	100	0.0	mg/l				
Sulfate	GP22896/GN58832	2.0	0.0	mg/l	50	51.1	102.2	90-110%

Associated Samples:
Batch GN58816: FA9884-1, FA9884-2
Batch GN58889: FA9884-1, FA9884-2
Batch GP22896: FA9884-1, FA9884-2
Batch GP22902: FA9884-1, FA9884-2
Batch GP22910: FA9884-1, FA9884-2
Batch GP22919: FA9884-1, FA9884-2
Batch GP22961: FA9884-1, FA9884-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP22919/GN58888	FA9884-1	mg/l	15.2	14.9	2.4	0-30%
Iron, Ferrous	GN58816	FA9884-2	mg/l	0.52	0.55	3.3	0-31%
Solids, Total Dissolved	GN58889	FA9939-9	mg/l	1110	1110	0.0	0-5%

Associated Samples:
Batch GN58816: FA9884-1, FA9884-2
Batch GN58889: FA9884-1, FA9884-2
Batch GP22919: FA9884-1, FA9884-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP22910/GN58870	FA9867-1	mg/l	103	50.0	140	75.0*(a)	87-122%
Chloride	GP22896/GN58832	FA9867-7	mg/l	70.6	50	117	92.8	90-110%
Fluoride	GP22896/GN58832	FA9867-7	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Ammonia	GP22902/GN58862	FA9879-3	mg/l	5.9	2.5	8.4	100.0	90-110%
Nitrogen, Nitrate	GP22896/GN58832	FA9867-7	mg/l	0.80	2.5	3.3	100.0	90-110%
Nitrogen, Nitrite	GP22896/GN58832	FA9867-7	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Total Kjeldahl	GP22961/GN58980	FA9841-3	mg/l	0.25	2.63	3.2	112.4N(a)	90-110%
Sulfate	GP22896/GN58832	FA9867-7	mg/l	6.4	50	55.6	98.4	90-110%

Associated Samples:
Batch GP22896: FA9884-1, FA9884-2
Batch GP22902: FA9884-1, FA9884-2
Batch GP22910: FA9884-1, FA9884-2
Batch GP22961: FA9884-1, FA9884-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9884
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chemical Oxygen Demand	GP22910/GN58870	FA9867-1	mg/l	103	50.0	142	1.8	26%
Chloride	GP22896/GN58832	FA9867-7	mg/l	70.6	50	118	0.9	20%
Fluoride	GP22896/GN58832	FA9867-7	mg/l	0.0	2.5	2.6	0.0	20%
Nitrogen, Ammonia	GP22902/GN58862	FA9879-3	mg/l	5.9	2.5	8.4	0.0	20%
Nitrogen, Nitrate	GP22896/GN58832	FA9867-7	mg/l	0.80	2.5	3.3	0.0	20%
Nitrogen, Nitrite	GP22896/GN58832	FA9867-7	mg/l	0.0	2.5	2.5	3.9	20%
Nitrogen, Total Kjeldahl	GP22961/GN58980	FA9841-3	mg/l	0.25	2.63	3.3	3.1	20%
Sulfate	GP22896/GN58832	FA9867-7	mg/l	6.4	50	56.3	1.3	20%

Associated Samples:
Batch GP22896: FA9884-1, FA9884-2
Batch GP22902: FA9884-1, FA9884-2
Batch GP22910: FA9884-1, FA9884-2
Batch GP22961: FA9884-1, FA9884-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

11/27/13

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA9938

Sampling Dates: 11/11/13 - 11/12/13

Report to:

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Total number of pages in report: **151**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

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Accutest Laboratories

Sample Summary

Nation View

Job No: FA9938

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA9938-1	11/11/13	13:15	TLBP	11/13/13	AQ	Ground Water	SS17-MW08
FA9938-1F	11/11/13	13:15	TLBP	11/13/13	AQ	Groundwater Filtered	SS17-MW08
FA9938-2	11/12/13	09:10	TLBP	11/13/13	AQ	Ground Water	SS17-MW21
FA9938-2F	11/12/13	09:10	TLBP	11/13/13	AQ	Groundwater Filtered	SS17-MW21
FA9938-3	11/12/13	10:35	TLBP	11/13/13	AQ	Ground Water	SS17-MW22
FA9938-3F	11/12/13	10:35	TLBP	11/13/13	AQ	Groundwater Filtered	SS17-MW22
FA9938-4	11/12/13	10:35	TLBP	11/13/13	AQ	Ground Water	SS17-MW22-A
FA9938-4F	11/12/13	10:35	TLBP	11/13/13	AQ	Groundwater Filtered	SS17-MW22-A
FA9938-5	11/12/13	13:05	TLBP	11/13/13	AQ	Ground Water	SS17-MW23
FA9938-5F	11/12/13	13:05	TLBP	11/13/13	AQ	Groundwater Filtered	SS17-MW23
FA9938-6	11/11/13	00:00	TLBP	11/13/13	AQ	Trip Blank Water	TRIP BLANK
FA9938-7	11/12/13	00:00	TLBP	11/13/13	AQ	Trip Blank Water	TRIP BLANK
FA9938-8	11/12/13	00:00	TLBP	11/13/13	AQ	Trip Blank Water	TRIP BLANK

Sample Summary
(continued)

Nation View

Job No: FA9938

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA9938-9	11/12/13	00:00	TLBP	11/13/13	AQ	Trip Blank Water	TRIP BLANK
FA9938-10	11/12/13	00:00	TLBP	11/13/13	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA9938
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13 thru 11/12/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA9938-1	**SS17-MW08**					
n-Butylbenzene		18.8 J	50	10	ug/l	SW846 8260B
sec-Butylbenzene		18.6 J	50	11	ug/l	SW846 8260B
Ethylbenzene		4370	50	15	ug/l	SW846 8260B
Isopropylbenzene		119	50	10	ug/l	SW846 8260B
Naphthalene		580	250	50	ug/l	SW846 8260B
n-Propylbenzene		442	50	11	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1410	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		360	100	10	ug/l	SW846 8260B
Toluene		12.1 J	50	10	ug/l	SW846 8260B
m,p-Xylene		5730	100	15	ug/l	SW846 8260B
o-Xylene		14.9 J	50	10	ug/l	SW846 8260B
3&4-Methylphenol		14.1 J	19	5.3	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		7.4 J	19	4.4	ug/l	SW846 8270D
1-Methylnaphthalene		39.0	19	2.7	ug/l	SW846 8270D
2-Methylnaphthalene		33.5	19	2.6	ug/l	SW846 8270D
Naphthalene		227	19	2.4	ug/l	SW846 8270D
TPH-GRO (C6-C10)		15.9	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		9.50	2.4	0.95	mg/l	SW846 8015C
Iron		92.3 J	300	29	ug/l	SW846 6010C
Manganese		203	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		14.5	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		264	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		67.2	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [a]		0.092 J	0.40	0.059	mg/l	SM18 3500FED M
Nitrogen, Ammonia		0.43	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.4	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		4040	500	50	mg/l	SM19 2540C
Sulfate		1890	50	15	mg/l	EPA 300/SW846 9056A
FA9938-1F	**SS17-MW08**					
Manganese		187	15	0.70	ug/l	SW846 6010C
FA9938-2	**SS17-MW21**					
Benzene		54400	1000	210	ug/l	SW846 8260B
Carbon disulfide		544 J	2000	490	ug/l	SW846 8260B
Ethylbenzene		5860	1000	290	ug/l	SW846 8260B
n-Propylbenzene		482 J	1000	230	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2390	2000	200	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		712 J	2000	200	ug/l	SW846 8260B
Toluene		56100	1000	200	ug/l	SW846 8260B
m,p-Xylene		16300	2000	300	ug/l	SW846 8260B

Summary of Hits

Job Number: FA9938
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
o-Xylene		7550	1000	200	ug/l	SW846 8260B
3&4-Methylphenol [b]		459	120	33	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate [b]		38.4 J	120	27	ug/l	SW846 8270D
1-Methylnaphthalene [b]		289	120	17	ug/l	SW846 8270D
2-Methylnaphthalene [b]		588	120	16	ug/l	SW846 8270D
Naphthalene [b]		1090	120	15	ug/l	SW846 8270D
TPH-GRO (C6-C10)		256	50	25	mg/l	SW846 8015C
TPH (C10-C22)		10.4	2.4	0.95	mg/l	SW846 8015C
Iron		1440	300	29	ug/l	SW846 6010C
Manganese		261	15	0.70	ug/l	SW846 6010C
BOD, 5 Day		13.8	4.0	4.0	mg/l	SM19 5210B
Chemical Oxygen Demand		505	20	5.3	mg/l	SM19 5220C
Hydrogen Sulfide		71.4	1.0	0.50	mg/l	SM18 4500/EPA 376.1
Iron, Ferric [a]		1.2	0.40	0.059	mg/l	SM18 3500FED M
Iron, Ferrous [c]		0.21	0.10	0.030	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.46	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.8	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3540	200	20	mg/l	SM19 2540C
Sulfate		1840	50	15	mg/l	EPA 300/SW846 9056A
FA9938-2F	**SS17-MW21**					
Manganese		247	15	0.70	ug/l	SW846 6010C
FA9938-3	**SS17-MW22**					
Benzene		162	10	2.1	ug/l	SW846 8260B
n-Butylbenzene		0.21 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		1.5	1.0	0.22	ug/l	SW846 8260B
Ethylbenzene		30.4	1.0	0.29	ug/l	SW846 8260B
Isopropylbenzene		0.99 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene		4.5 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		3.1	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		13.4	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		3.9	2.0	0.20	ug/l	SW846 8260B
Toluene		199	10	2.0	ug/l	SW846 8260B
m,p-Xylene		80.1	2.0	0.30	ug/l	SW846 8260B
o-Xylene		36.0	1.0	0.20	ug/l	SW846 8260B
1-Methylnaphthalene		1.8 J	4.8	0.67	ug/l	SW846 8270D
2-Methylnaphthalene		3.3 J	4.8	0.66	ug/l	SW846 8270D
Naphthalene		11.8	4.8	0.61	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.928	0.20	0.10	mg/l	SW846 8015C
TPH (C10-C22)		0.404	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)		0.225 J	0.24	0.095	mg/l	SW846 8015C
Iron		3510	300	29	ug/l	SW846 6010C

Summary of Hits

Job Number: FA9938
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13 thru 11/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Manganese		5240	15	0.70	ug/l	SW846 6010C
Chemical Oxygen Demand		29.3	20	5.3	mg/l	SM19 5220C
Iron, Ferrous [c]		6.4	1.0	0.30	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.13	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.2	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		8440	500	50	mg/l	SM19 2540C
Sulfate		4050	200	60	mg/l	EPA 300/SW846 9056A
FA9938-3F	**SS17-MW22**					
Manganese		5300	60	2.8	ug/l	SW846 6010C
FA9938-4	**SS17-MW22-A**					
Benzene		232	20	4.2	ug/l	SW846 8260B
1,2-Dichloroethane [d]		3.0 J	5.0	1.1	ug/l	SW846 8260B
Ethylbenzene		40.4	20	5.8	ug/l	SW846 8260B
Methylene chloride [e]		13.2 J	25	10	ug/l	SW846 8260B
n-Propylbenzene [d]		2.7 J	5.0	1.1	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		17.6 J	40	4.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		5.5 J	40	4.0	ug/l	SW846 8260B
Toluene		307	20	4.0	ug/l	SW846 8260B
m,p-Xylene		93.4	40	5.9	ug/l	SW846 8260B
o-Xylene		42.1	20	4.0	ug/l	SW846 8260B
1-Methylnaphthalene		2.4 J	4.8	0.67	ug/l	SW846 8270D
2-Methylnaphthalene		4.0 J	4.8	0.66	ug/l	SW846 8270D
Naphthalene		14.4	4.8	0.61	ug/l	SW846 8270D
TPH-GRO (C6-C10) [f]		1.34	0.20	0.10	mg/l	SW846 8015C
TPH (C10-C22)		0.446	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)		0.278	0.24	0.095	mg/l	SW846 8015C
Iron		4260	300	29	ug/l	SW846 6010C
Manganese		5270	15	0.70	ug/l	SW846 6010C
Chemical Oxygen Demand		22.0	20	5.3	mg/l	SM19 5220C
Iron, Ferric [a]		1.9	0.50	0.091	mg/l	SM18 3500FED M
Iron, Ferrous [c]		2.4	0.20	0.062	mg/l	SM18 3500FED
Nitrogen, Ammonia		0.19	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.4	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		8230	500	50	mg/l	SM19 2540C
Sulfate		3990	200	60	mg/l	EPA 300/SW846 9056A
FA9938-4F	**SS17-MW22-A**					
Manganese		5280	60	2.8	ug/l	SW846 6010C

Summary of Hits

Job Number: FA9938
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13 thru 11/12/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA9938-5	**SS17-MW23**					
Benzene [d]		60.0	1.0	0.21	ug/l	SW846 8260B
Ethylbenzene [d]		11.2	1.0	0.29	ug/l	SW846 8260B
Isopropylbenzene [d]		0.40 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene [d]		1.4 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene [d]		0.99 J	1.0	0.23	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [d]		4.8	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [d]		1.5 J	2.0	0.20	ug/l	SW846 8260B
Toluene [d]		86.6	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene [d]		30.9	2.0	0.30	ug/l	SW846 8260B
o-Xylene [d]		13.6	1.0	0.20	ug/l	SW846 8260B
1-Methylnaphthalene		1.3 J	4.8	0.67	ug/l	SW846 8270D
2-Methylnaphthalene		2.3 J	4.8	0.66	ug/l	SW846 8270D
Naphthalene		6.4	4.8	0.61	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.343	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.74	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)		0.879	0.24	0.095	mg/l	SW846 8015C
Iron		846	300	29	ug/l	SW846 6010C
Manganese		2970	15	0.70	ug/l	SW846 6010C
Chemical Oxygen Demand		198	20	5.3	mg/l	SM19 5220C
Iron, Ferric [a]		0.85	0.40	0.059	mg/l	SM18 3500FED M
Nitrogen, Ammonia		0.53	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		9.3 J	10	5.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		3.0	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7200	500	50	mg/l	SM19 2540C
Sulfate		2930	200	60	mg/l	EPA 300/SW846 9056A
FA9938-5F	**SS17-MW23**					
Manganese		3040	15	0.70	ug/l	SW846 6010C

FA9938-6 **TRIP BLANK**

No hits reported in this sample.

FA9938-7 **TRIP BLANK**

No hits reported in this sample.

FA9938-8 **TRIP BLANK**

No hits reported in this sample.

Summary of Hits

Job Number: FA9938
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/11/13 thru 11/12/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA9938-9 TRIP BLANK

No hits reported in this sample.

FA9938-10 TRIP BLANK

No hits reported in this sample.

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Dilution required due to matrix interference.
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(e) Sample was not preserved to a pH < 2; reported results are considered minimum values. Suspected laboratory contaminant.
(f) Sample was not preserved to a pH < 2.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20620.D	50	11/18/13	EG	n/a	n/a	VP778
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	1300	500	ug/l	
107-02-8	Acrolein	ND	1000	350	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	11	ug/l	
108-86-1	Bromobenzene	ND	50	11	ug/l	
74-97-5	Bromochloromethane	ND	50	11	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
104-51-8	n-Butylbenzene	18.8	50	10	ug/l	J
135-98-8	sec-Butylbenzene	18.6	50	11	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	64	ug/l	
75-15-0	Carbon disulfide	ND	100	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	16	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	12	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	36	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	15	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	13	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	12	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	10	ug/l	
100-41-4	Ethylbenzene	4370	50	15	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	119	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	110	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	25	ug/l	
74-95-3	Methylene bromide	ND	100	17	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	160	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	11	ug/l	
91-20-3	Naphthalene	580	250	50	ug/l	
103-65-1	n-Propylbenzene	442	50	11	ug/l	
100-42-5	Styrene	ND	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1410	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	360	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	12.1	50	10	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	22	ug/l	
108-05-4	Vinyl Acetate	ND	500	160	ug/l	
	m,p-Xylene	5730	100	15	ug/l	
95-47-6	o-Xylene	14.9	50	10	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031727.D	4	11/19/13	NAF	11/14/13	OP49439	SX1504
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	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	3.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.7	ug/l	
105-67-9	2,4-Dimethylphenol	ND	19	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	95	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	5.5	ug/l	
95-48-7	2-Methylphenol	ND	19	2.7	ug/l	
	3&4-Methylphenol	14.1	19	5.3	ug/l	J
88-75-5	2-Nitrophenol	ND	19	2.6	ug/l	
100-02-7	4-Nitrophenol	ND	95	19	ug/l	
87-86-5	Pentachlorophenol	ND	95	19	ug/l	
108-95-2	Phenol	ND	19	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	3.0	ug/l	
83-32-9	Acenaphthene	ND	19	2.7	ug/l	
208-96-8	Acenaphthylene	ND	19	2.6	ug/l	
62-53-3	Aniline	ND	19	3.0	ug/l	
120-12-7	Anthracene	ND	19	2.8	ug/l	
92-87-5	Benzidine	ND	95	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.9	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	2.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	3.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	2.7	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.8	ug/l	
106-47-8	4-Chloroaniline	ND	19	2.6	ug/l	
86-74-8	Carbazole	ND	19	2.0	ug/l	
218-01-9	Chrysene	ND	19	2.2	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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.6	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.7	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	3.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	3.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	2.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	2.6	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	3.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	2.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	2.2	ug/l	
132-64-9	Dibenzofuran	ND	19	2.8	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.8	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.8	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.8	ug/l	
131-11-3	Dimethyl phthalate	ND	19	3.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	7.4	19	4.4	ug/l	J
206-44-0	Fluoranthene	ND	19	2.2	ug/l	
86-73-7	Fluorene	ND	19	2.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	3.6	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.0	ug/l	
67-72-1	Hexachloroethane	ND	19	2.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.2	ug/l	
78-59-1	Isophorone	ND	19	2.4	ug/l	
90-12-0	1-Methylnaphthalene	39.0	19	2.7	ug/l	
91-57-6	2-Methylnaphthalene	33.5	19	2.6	ug/l	
88-74-4	2-Nitroaniline	ND	19	2.9	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.5	ug/l	
100-01-6	4-Nitroaniline	ND	19	3.7	ug/l	
91-20-3	Naphthalene	227	19	2.4	ug/l	
98-95-3	Nitrobenzene	ND	19	2.7	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	3.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	3.8	ug/l	
85-01-8	Phenanthrene	ND	19	2.7	ug/l	
129-00-0	Pyrene	ND	19	2.6	ug/l	
110-86-1	Pyridine	ND	38	7.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	2.3	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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	89%		42-108%
321-60-8	2-Fluorobiphenyl	87%		40-106%
1718-51-0	Terphenyl-d14	75%		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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125169.D	50	11/14/13	CP	n/a	n/a	GCD5107
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	15.9	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-131%
98-08-8	aaa-Trifluorotoluene	95%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39366.D	10	11/26/13	SJL	11/16/13	OP49455	GYY1448
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)	9.50	2.4	0.95	mg/l	
	TPH (> C22-C36)	ND	2.4	0.95	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	128%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	92.3 J	300	29	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	203	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26405

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:	SS17-MW08		
Lab Sample ID:	FA9938-1	**Date Sampled:**	11/11/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	14.5	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	264	20	5.3	mg/l	1	11/19/13 13:30	LE	SM19 5220C
Hydrogen Sulfide	67.2	1.0	0.50	mg/l	1	11/14/13 13:25	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.092 J	0.40	0.059	mg/l	1	11/21/13 16:31	LM	SM18 3500FED M
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/13/13 10:05	LE	SM18 3500FED
Nitrogen, Ammonia	0.43	0.10	0.030	mg/l	1	11/19/13 15:25	VK	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	11/13/13 11:37	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.4	0.53	0.17	mg/l	1	11/22/13 08:56	MG	EPA 351.2
Solids, Total Dissolved	4040	500	50	mg/l	5	11/18/13 11:00	KC	SM19 2540C
Sulfate	1890	50	15	mg/l	25	11/13/13 11:37	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW08		
Lab Sample ID:	FA9938-1F	**Date Sampled:**	11/11/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	187	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11225
(2) Prep QC Batch: MP26399

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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20621.D	1000	11/18/13	EG	n/a	n/a	VP778
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	25000	10000	ug/l	
107-02-8	Acrolein	ND	20000	6900	ug/l	
107-13-1	Acrylonitrile	ND	10000	2000	ug/l	
71-43-2	Benzene	54400	1000	210	ug/l	
108-86-1	Bromobenzene	ND	1000	220	ug/l	
74-97-5	Bromochloromethane	ND	1000	230	ug/l	
75-27-4	Bromodichloromethane	ND	1000	200	ug/l	
75-25-2	Bromoform	ND	1000	340	ug/l	
104-51-8	n-Butylbenzene	ND	1000	200	ug/l	
135-98-8	sec-Butylbenzene	ND	1000	210	ug/l	
98-06-6	tert-Butylbenzene	ND	1000	290	ug/l	
108-90-7	Chlorobenzene	ND	1000	200	ug/l	
75-00-3	Chloroethane	ND	2000	500	ug/l	
67-66-3	Chloroform	ND	1000	260	ug/l	
95-49-8	o-Chlorotoluene	ND	1000	210	ug/l	
106-43-4	p-Chlorotoluene	ND	1000	200	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	1300	ug/l	
75-15-0	Carbon disulfide	544	2000	490	ug/l	J
56-23-5	Carbon tetrachloride	ND	1000	310	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	210	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1000	200	ug/l	
563-58-6	1,1-Dichloropropene	ND	1000	250	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2000	710	ug/l	
106-93-4	1,2-Dibromoethane	ND	1000	300	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	220	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	260	ug/l	
142-28-9	1,3-Dichloropropane	ND	1000	270	ug/l	
594-20-7	2,2-Dichloropropane	ND	1000	250	ug/l	
124-48-1	Dibromochloromethane	ND	1000	200	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	500	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1000	240	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	220	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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1000	250	ug/l	
95-50-1	o-Dichlorobenzene	ND	1000	220	ug/l	
106-46-7	p-Dichlorobenzene	ND	1000	200	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1000	230	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	210	ug/l	
100-41-4	Ethylbenzene	5860	1000	290	ug/l	
591-78-6	2-Hexanone	ND	10000	2000	ug/l	
87-68-3	Hexachlorobutadiene	ND	2000	500	ug/l	
98-82-8	Isopropylbenzene	ND	1000	200	ug/l	
99-87-6	p-Isopropyltoluene	ND	1000	200	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5000	2300	ug/l	
74-83-9	Methyl bromide	ND	2000	790	ug/l	
74-87-3	Methyl chloride	ND	2000	500	ug/l	
74-95-3	Methylene bromide	ND	2000	340	ug/l	
75-09-2	Methylene chloride	ND	5000	2000	ug/l	
78-93-3	Methyl ethyl ketone	ND	5000	3100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	210	ug/l	
91-20-3	Naphthalene	ND	5000	1000	ug/l	
103-65-1	n-Propylbenzene	482	1000	230	ug/l	J
100-42-5	Styrene	ND	1000	200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	230	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	200	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	240	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	200	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1000	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2000	560	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1000	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2390	2000	200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	712	2000	200	ug/l	J
127-18-4	Tetrachloroethylene	ND	1000	320	ug/l	
108-88-3	Toluene	56100	1000	200	ug/l	
79-01-6	Trichloroethylene	ND	1000	310	ug/l	
75-69-4	Trichlorofluoromethane	ND	2000	500	ug/l	
75-01-4	Vinyl chloride	ND	1000	440	ug/l	
108-05-4	Vinyl Acetate	ND	10000	3100	ug/l	
	m,p-Xylene	16300	2000	300	ug/l	
95-47-6	o-Xylene	7550	1000	200	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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L066872.D	25	11/21/13	NAF	11/14/13	OP49439	SL3358
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	1200	240	ug/l	
95-57-8	2-Chlorophenol	ND	120	17	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	120	19	ug/l	
120-83-2	2,4-Dichlorophenol	ND	120	17	ug/l	
105-67-9	2,4-Dimethylphenol	ND	120	18	ug/l	
51-28-5	2,4-Dinitrophenol	ND	600	120	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	240	34	ug/l	
95-48-7	2-Methylphenol	ND	120	17	ug/l	
	3&4-Methylphenol	459	120	33	ug/l	
88-75-5	2-Nitrophenol	ND	120	16	ug/l	
100-02-7	4-Nitrophenol	ND	600	120	ug/l	
87-86-5	Pentachlorophenol	ND	600	120	ug/l	
108-95-2	Phenol	ND	120	13	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	120	21	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	120	19	ug/l	
83-32-9	Acenaphthene	ND	120	17	ug/l	
208-96-8	Acenaphthylene	ND	120	17	ug/l	
62-53-3	Aniline	ND	120	19	ug/l	
120-12-7	Anthracene	ND	120	18	ug/l	
92-87-5	Benzidine	ND	600	120	ug/l	
56-55-3	Benzo(a)anthracene	ND	120	13	ug/l	
50-32-8	Benzo(a)pyrene	ND	120	14	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	120	18	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	120	16	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	120	16	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	120	19	ug/l	
85-68-7	Butyl benzyl phthalate	ND	120	17	ug/l	
100-51-6	Benzyl Alcohol	ND	120	24	ug/l	
91-58-7	2-Chloronaphthalene	ND	120	17	ug/l	
106-47-8	4-Chloroaniline	ND	120	16	ug/l	
86-74-8	Carbazole	ND	120	12	ug/l	
218-01-9	Chrysene	ND	120	14	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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	120	17	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	120	17	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	120	19	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	120	21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	120	16	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	120	15	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	120	18	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	120	16	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	120	16	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	120	19	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	120	17	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/l	
132-64-9	Dibenzofuran	ND	120	18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	120	24	ug/l	
117-84-0	Di-n-octyl phthalate	ND	120	24	ug/l	
84-66-2	Diethyl phthalate	ND	120	24	ug/l	
131-11-3	Dimethyl phthalate	ND	120	19	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	38.4	120	27	ug/l	J
206-44-0	Fluoranthene	ND	120	14	ug/l	
86-73-7	Fluorene	ND	120	18	ug/l	
118-74-1	Hexachlorobenzene	ND	120	16	ug/l	
87-68-3	Hexachlorobutadiene	ND	120	23	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	120	19	ug/l	
67-72-1	Hexachloroethane	ND	120	18	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	14	ug/l	
78-59-1	Isophorone	ND	120	15	ug/l	
90-12-0	1-Methylnaphthalene	289	120	17	ug/l	
91-57-6	2-Methylnaphthalene	588	120	16	ug/l	
88-74-4	2-Nitroaniline	ND	120	18	ug/l	
99-09-2	3-Nitroaniline	ND	120	15	ug/l	
100-01-6	4-Nitroaniline	ND	120	23	ug/l	
91-20-3	Naphthalene	1090	120	15	ug/l	
98-95-3	Nitrobenzene	ND	120	17	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	120	15	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	120	20	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	120	24	ug/l	
85-01-8	Phenanthrene	ND	120	17	ug/l	
129-00-0	Pyrene	ND	120	16	ug/l	
110-86-1	Pyridine	ND	240	48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	120	14	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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-67%
4165-62-2	Phenol-d5	0% [b]		10-50%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125170.D	500	11/14/13	CP	n/a	n/a	GCD5107
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	256	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-131%
98-08-8	aaa-Trifluorotoluene	94%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39367.D	10	11/26/13	SJL	11/16/13	OP49455	GYY1448
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)	10.4	2.4	0.95	mg/l	
	TPH (> C22-C36)	ND	2.4	0.95	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	115%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1440	300	29	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	261	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26405

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:	SS17-MW21		
Lab Sample ID:	FA9938-2	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	13.8	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	505	20	5.3	mg/l	1	11/19/13 13:30	LE	SM19 5220C
Hydrogen Sulfide	71.4	1.0	0.50	mg/l	1	11/18/13 10:40	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	1.2	0.40	0.059	mg/l	1	11/21/13 16:35	LM	SM18 3500FED M
Iron, Ferrous [b]	0.21	0.10	0.030	mg/l	1	11/13/13 10:05	LE	SM18 3500FED
Nitrogen, Ammonia	0.46	0.10	0.030	mg/l	1	11/19/13 15:26	VK	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	11/13/13 17:02	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	11/22/13 08:59	MG	EPA 351.2
Solids, Total Dissolved	3540	200	20	mg/l	2	11/18/13 11:00	KC	SM19 2540C
Sulfate	1840	50	15	mg/l	25	11/13/13 17:02	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW21		
Lab Sample ID:	FA9938-2F	**Date Sampled:**	11/12/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	247	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11225
(2) Prep QC Batch: MP26399

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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P20622.D	1	11/18/13	EG	n/a	n/a	VP778
Run #2	P20643.D	10	11/19/13	EG	n/a	n/a	VP779

	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	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	162 [b]	10	2.1	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	0.21	1.0	0.20	ug/l	J
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	1.5	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	30.4	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.99	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	4.5	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	3.1	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	13.4	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.9	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	199 [b]	10	2.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	80.1	2.0	0.30	ug/l	
95-47-6	o-Xylene	36.0	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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	102%	79-125%
2037-26-5	Toluene-D8	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	102%	83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031722.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
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	0.67	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.77	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.73	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.64	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.85	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.66	ug/l	
62-53-3	Aniline	ND	4.8	0.74	ug/l	
120-12-7	Anthracene	ND	4.8	0.71	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.54	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.75	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.69	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.65	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.66	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.68	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.75	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.83	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.61	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.74	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.65	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.70	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.71	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.65	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.91	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	1.8	4.8	0.67	ug/l	J
91-57-6	2-Methylnaphthalene	3.3	4.8	0.66	ug/l	J
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.92	ug/l	
91-20-3	Naphthalene	11.8	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.67	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	55%		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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125188.D	2	11/15/13	CP	n/a	n/a	GCD5108
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.928	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-131%
98-08-8	aaa-Trifluorotoluene	103%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39368.D	1	11/26/13	SJL	11/16/13	OP49455	GYY1448
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)	0.404	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.225	0.24	0.095	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3510	300	29	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5240	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26405

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:	SS17-MW22		
Lab Sample ID:	FA9938-3	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	29.3	20	5.3	mg/l	1	11/20/13 09:00	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	11/18/13 10:40	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.33 U	1.3	0.33	mg/l	1	11/21/13 16:40	LM	SM18 3500FED M
Iron, Ferrous [b]	6.4	1.0	0.30	mg/l	10	11/13/13 10:05	LE	SM18 3500FED
Nitrogen, Ammonia	0.13	0.10	0.030	mg/l	1	11/19/13 15:29	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	11/13/13 19:26	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	11/22/13 09:00	MG	EPA 351.2
Solids, Total Dissolved	8440	500	50	mg/l	5	11/18/13 11:00	KC	SM19 2540C
Sulfate	4050	200	60	mg/l	100	11/13/13 19:26	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22		
Lab Sample ID:	FA9938-3F	**Date Sampled:**	11/12/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5300	60	2.8	ug/l	4	11/21/13	11/22/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11229
(2) Prep QC Batch: MP26399

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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20700.D	5	11/21/13	EG	n/a	n/a	VP781
Run #2	P20647.D	20	11/19/13	EG	n/a	n/a	VP779

	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 [b]	ND	130	50	ug/l	
107-02-8	Acrolein	ND	100	35	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	232 [c]	20	4.2	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.1	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	1.7	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.5	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	1.3	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	6.4	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	3.0	5.0	1.1	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	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.2	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	ND	5.0	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.1	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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	40.4 [c]	20	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	11	ug/l	
74-83-9	Methyl bromide	ND	10	3.9	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.7	ug/l	
75-09-2	Methylene chloride [d]	13.2	25	10	ug/l	J
78-93-3	Methyl ethyl ketone	ND	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	2.7	5.0	1.1	ug/l	J
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	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	1.0	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	2.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	17.6 [c]	40	4.0	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	5.5 [c]	40	4.0	ug/l	J
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	307 [c]	20	4.0	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	ND	50	16	ug/l	
	m,p-Xylene	93.4 [c]	40	5.9	ug/l	
95-47-6	o-Xylene	42.1 [c]	20	4.0	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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	104%	79-125%
2037-26-5	Toluene-D8	97%	99%	85-112%
460-00-4	4-Bromofluorobenzene	100%	104%	83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) Associated BS recovery outside control limits.
(c) Result is from Run# 2
(d) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031723.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
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	0.67	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.77	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.73	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.64	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.85	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.66	ug/l	
62-53-3	Aniline	ND	4.8	0.74	ug/l	
120-12-7	Anthracene	ND	4.8	0.71	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.54	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.75	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.69	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.65	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.66	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.68	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.75	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.83	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.61	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.74	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.65	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.70	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.71	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.65	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.91	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	2.4	4.8	0.67	ug/l	J
91-57-6	2-Methylnaphthalene	4.0	4.8	0.66	ug/l	J
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.92	ug/l	
91-20-3	Naphthalene	14.4	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.67	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-67%
4165-62-2	Phenol-d5	31%		10-50%
118-79-6	2,4,6-Tribromophenol	98%		33-118%
4165-60-0	Nitrobenzene-d5	84%		42-108%
321-60-8	2-Fluorobiphenyl	89%		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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD125189.D	2	11/15/13	CP	n/a	n/a	GCD5108
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.34	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		69-143%

(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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39358.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447
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)	0.446	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.278	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	4260	300	29	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5270	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26405

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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	22.0	20	5.3	mg/l	1	11/20/13 09:00	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	11/18/13 10:40	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	1.9	0.50	0.091	mg/l	1	11/21/13 16:44	LM	SM18 3500FED M
Iron, Ferrous [b]	2.4	0.20	0.062	mg/l	2	11/13/13 10:05	LE	SM18 3500FED
Nitrogen, Ammonia	0.19	0.10	0.030	mg/l	1	11/19/13 15:30	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	11/13/13 19:41	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.4	0.53	0.17	mg/l	1	11/22/13 09:01	MG	EPA 351.2
Solids, Total Dissolved	8230	500	50	mg/l	5	11/18/13 11:00	KC	SM19 2540C
Sulfate	3990	200	60	mg/l	100	11/13/13 19:41	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22-A		
Lab Sample ID:	FA9938-4F	**Date Sampled:**	11/12/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5280	60	2.8	ug/l	4	11/21/13	11/22/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11229
(2) Prep QC Batch: MP26399

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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20698.D	1	11/21/13	EG	n/a	n/a	VP781
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	60.0	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	11.2	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.40	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	1.4	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	0.99	1.0	0.23	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.8	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.5	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	86.6	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	30.9	2.0	0.30	ug/l	
95-47-6	o-Xylene	13.6	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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) 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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X031724.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
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	0.67	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.77	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.67	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.73	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.69	ug/l	
	3&4-Methylphenol	ND	4.8	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.64	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.85	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.67	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.66	ug/l	
62-53-3	Aniline	ND	4.8	0.74	ug/l	
120-12-7	Anthracene	ND	4.8	0.71	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.52	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.54	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.75	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.69	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.65	ug/l	
86-74-8	Carbazole	ND	4.8	0.50	ug/l	
218-01-9	Chrysene	ND	4.8	0.56	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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.66	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.68	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.75	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.83	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.61	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.74	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.66	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.65	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.77	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.70	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.56	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.71	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.77	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.56	ug/l	
86-73-7	Fluorene	ND	4.8	0.73	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.65	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.91	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.76	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.55	ug/l	
78-59-1	Isophorone	ND	4.8	0.61	ug/l	
90-12-0	1-Methylnaphthalene	1.3	4.8	0.67	ug/l	J
91-57-6	2-Methylnaphthalene	2.3	4.8	0.66	ug/l	J
88-74-4	2-Nitroaniline	ND	4.8	0.72	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.62	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.92	ug/l	
91-20-3	Naphthalene	6.4	4.8	0.61	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.69	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.81	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.67	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.58	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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	51%		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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD125175.D	1	11/14/13	CP	n/a	n/a	GCD5107
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.343	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		70-131%
98-08-8	aaa-Trifluorotoluene	95%		69-143%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY39359.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447
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)	1.74	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.879	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	117%		50-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	846	300	29	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2970	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11226
(2) Prep QC Batch: MP26405

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:	SS17-MW23		
Lab Sample ID:	FA9938-5	**Date Sampled:**	11/12/13
Matrix:	AQ - Ground Water	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	11/13/13 08:10	HH	SM19 5210B
Chemical Oxygen Demand	198	20	5.3	mg/l	1	11/19/13 13:30	LE	SM19 5220C
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	11/18/13 10:40	LE	SM18 4500/EPA 376.1
Iron, Ferric [a]	0.85	0.40	0.059	mg/l	1	11/21/13 16:49	LM	SM18 3500FED M
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/13/13 10:05	LE	SM18 3500FED
Nitrogen, Ammonia	0.53	0.10	0.030	mg/l	1	11/19/13 15:31	VK	EPA 350.1
Nitrogen, Nitrate	9.3 J	10	5.0	mg/l	100	11/13/13 19:57	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	3.0	0.53	0.17	mg/l	1	11/22/13 09:02	MG	EPA 351.2
Solids, Total Dissolved	7200	500	50	mg/l	5	11/18/13 11:00	KC	SM19 2540C
Sulfate	2930	200	60	mg/l	100	11/13/13 19:57	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	SS17-MW23		
Lab Sample ID:	FA9938-5F	**Date Sampled:**	11/12/13
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/13/13
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	3040	15	0.70	ug/l	1	11/21/13	11/21/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11225
(2) Prep QC Batch: MP26399

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:	FA9938-6	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20635.D	1	11/19/13	EG	n/a	n/a	VP779
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9938-6	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9938-6	**Date Sampled:**	11/11/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:	TRIP BLANK		
Lab Sample ID:	FA9938-7	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20636.D	1	11/19/13	EG	n/a	n/a	VP779
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9938-7	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9938-7	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:	TRIP BLANK		
Lab Sample ID:	FA9938-8	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20637.D	1	11/19/13	EG	n/a	n/a	VP779
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9938-8	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9938-8	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:	TRIP BLANK		
Lab Sample ID:	FA9938-9	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20638.D	1	11/19/13	EG	n/a	n/a	VP779
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9938-9	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9938-9	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:	TRIP BLANK		
Lab Sample ID:	FA9938-10	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P20639.D	1	11/19/13	EG	n/a	n/a	VP779
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 [b]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	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:	FA9938-10	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	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:	FA9938-10	**Date Sampled:**	11/12/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:

- Chain of Custody

NATIONVIEW

Page: 1 of 1

Project No: 11.0019

COC Number(1): 111202013

LIMS Number:

Chain of Custody and Analytical Request FA9938

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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	SS17-MW08	SS17-MW08	11-Nov-13	1315	-	N		WG	18	X	X	X	X	X	X	X	X	X	X								1
2	SS17-MW21	SS17-MW21	12-Nov-13	0910	-	N		WG	18	X	X	X	X	X	X	X	X	X	X								2
3	SS17-MW22	SS17-MW22	12-Nov-13	1035	-	N		WG	18	X	X	X	X	X	X	X	X	X	X								3
4	SS17-MW22-A	SS17-MW22-A	12-Nov-13	1035	-	N		WG	18	X	X	X	X	X	X	X	X	X	X								4
5	SS17-MW23	SS17-MW23	12-Nov-13	1305	-	N		WG	18	X	X	X	X	X	X	X	X	X	X								5
6	Trip Blank	Field QC	11-Nov-13		-	TB		AQ	1	X																	1
7	Trip Blank	Field QC	12-Nov-13		-	TB		AQ	1	X																	2
8	Trip Blank	Field QC	12-Nov-13		-	TB		AQ	1	X																	3
9	Trip Blank	Field QC	12-Nov-13		-	TB		AQ	1	X																	4
10	Trip Blank	Field QC	12-Nov-13		-	TB		AQ	1	X																	5

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	11/12/2013	1500	1. FX		09:30
2.			2. J. Crane (ALPHA)	11-13-13	
3. FX			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 797136746316 / 797136745732

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 2.6 2.8 3.0 2.6

FA9938: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 9938 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 11-13-13 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7971 3674 6095

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: 3.4 3.0 2.2 3.4 3.0
- [ ] CORRECTED TEMPS: 3.0 2.6 2.8 3.0 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
- [X] 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 (DRO) BROKEN FOR SAMPLE # 2

TECHNICIAN SIGNATURE/DATE JC 11-13-13 REVIEWER SIGNATURE/DATE R Willm 11-13-13

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA9938: 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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-MB	P20603.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-MB	P20634.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-MB	P20634.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-MB	P20634.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-MB	P20692.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	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	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	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	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-MB	P20692.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	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	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	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	0.56	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	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-MB	P20692.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	233	186*	50-147
107-02-8	Acrolein	125	93.3	75	31-154
107-13-1	Acrylonitrile	125	121	97	58-126
71-43-2	Benzene	25	26.4	106	81-122
108-86-1	Bromobenzene	25	25.1	100	80-121
74-97-5	Bromochloromethane	25	22.9	92	76-123
75-27-4	Bromodichloromethane	25	26.4	106	79-123
75-25-2	Bromoform	25	24.8	99	66-123
104-51-8	n-Butylbenzene	25	25.4	102	79-126
135-98-8	sec-Butylbenzene	25	31.5	126	83-133
98-06-6	tert-Butylbenzene	25	29.7	119	80-133
108-90-7	Chlorobenzene	25	28.8	115	82-124
75-00-3	Chloroethane	25	26.5	106	62-144
67-66-3	Chloroform	25	25.7	103	80-124
95-49-8	o-Chlorotoluene	25	29.2	117	81-127
106-43-4	p-Chlorotoluene	25	30.7	123	83-130
110-75-8	2-Chloroethyl vinyl ether	125	89.8	72	56-122
75-15-0	Carbon disulfide	25	23.1	92	66-148
56-23-5	Carbon tetrachloride	25	28.0	112	76-136
75-34-3	1,1-Dichloroethane	25	27.1	108	81-122
75-35-4	1,1-Dichloroethylene	25	28.7	115	78-137
563-58-6	1,1-Dichloropropene	25	28.8	115	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.6	102	64-123
106-93-4	1,2-Dibromoethane	25	26.0	104	75-120
107-06-2	1,2-Dichloroethane	25	26.9	108	75-125
78-87-5	1,2-Dichloropropane	25	27.1	108	76-124
142-28-9	1,3-Dichloropropane	25	26.1	104	80-118
594-20-7	2,2-Dichloropropane	25	27.2	109	74-139
124-48-1	Dibromochloromethane	25	25.7	103	78-122
75-71-8	Dichlorodifluoromethane	25	41.4	166	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.5	102	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.8	103	75-118
541-73-1	m-Dichlorobenzene	25	29.7	119	84-125
95-50-1	o-Dichlorobenzene	25	28.0	112	82-124
106-46-7	p-Dichlorobenzene	25	27.1	108	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.7	111	80-120
100-41-4	Ethylbenzene	25	27.2	109	81-121
591-78-6	2-Hexanone	125	161	129	61-129
87-68-3	Hexachlorobutadiene	25	27.0	108	75-142
98-82-8	Isopropylbenzene	25	29.1	116	83-132
99-87-6	p-Isopropyltoluene	25	30.7	123	79-130
108-10-1	4-Methyl-2-pentanone	125	125	100	66-122
74-83-9	Methyl bromide	25	26.3	105	59-143
74-87-3	Methyl chloride	25	32.2	129	50-159
74-95-3	Methylene bromide	25	23.7	95	78-119
75-09-2	Methylene chloride	25	26.5	106	69-135
78-93-3	Methyl ethyl ketone	125	156	125	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.0	92	72-117
91-20-3	Naphthalene	25	24.8	99	63-132
103-65-1	n-Propylbenzene	25	30.0	120	82-133
100-42-5	Styrene	25	27.4	110	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.2	105	77-122
71-55-6	1,1,1-Trichloroethane	25	28.5	114	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	25.1	100	72-120
79-00-5	1,1,2-Trichloroethane	25	24.7	99	76-119
87-61-6	1,2,3-Trichlorobenzene	25	24.7	99	68-131
96-18-4	1,2,3-Trichloropropane	25	24.1	96	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.6	98	73-129
95-63-6	1,2,4-Trimethylbenzene	25	27.5	110	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.5	110	79-120
127-18-4	Tetrachloroethylene	25	29.7	119	76-135
108-88-3	Toluene	25	27.1	108	80-120
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	25.9	104	71-156
75-01-4	Vinyl chloride	25	30.6	122	69-159
108-05-4	Vinyl Acetate	125	118	94	43-154
	m,p-Xylene	50	58.0	116	79-126
95-47-6	o-Xylene	25	27.9	112	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP778-BS	P20601.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-BS	P20632.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	212	170*	50-147
107-02-8	Acrolein	125	98.0	78	31-154
107-13-1	Acrylonitrile	125	115	92	58-126
71-43-2	Benzene	25	26.8	107	81-122
108-86-1	Bromobenzene	25	25.4	102	80-121
74-97-5	Bromochloromethane	25	23.8	95	76-123
75-27-4	Bromodichloromethane	25	26.4	106	79-123
75-25-2	Bromoform	25	23.0	92	66-123
104-51-8	n-Butylbenzene	25	25.4	102	79-126
135-98-8	sec-Butylbenzene	25	31.6	126	83-133
98-06-6	tert-Butylbenzene	25	30.4	122	80-133
108-90-7	Chlorobenzene	25	28.0	112	82-124
75-00-3	Chloroethane	25	25.2	101	62-144
67-66-3	Chloroform	25	25.2	101	80-124
95-49-8	o-Chlorotoluene	25	29.3	117	81-127
106-43-4	p-Chlorotoluene	25	29.1	116	83-130
110-75-8	2-Chloroethyl vinyl ether	125	93.5	75	56-122
75-15-0	Carbon disulfide	25	24.0	96	66-148
56-23-5	Carbon tetrachloride	25	27.7	111	76-136
75-34-3	1,1-Dichloroethane	25	26.3	105	81-122
75-35-4	1,1-Dichloroethylene	25	28.7	115	78-137
563-58-6	1,1-Dichloropropene	25	27.8	111	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.7	103	64-123
106-93-4	1,2-Dibromoethane	25	24.3	97	75-120
107-06-2	1,2-Dichloroethane	25	25.5	102	75-125
78-87-5	1,2-Dichloropropane	25	27.0	108	76-124
142-28-9	1,3-Dichloropropane	25	25.6	102	80-118
594-20-7	2,2-Dichloropropane	25	26.8	107	74-139
124-48-1	Dibromochloromethane	25	24.6	98	78-122
75-71-8	Dichlorodifluoromethane	25	38.7	155	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.4	98	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	75-118
541-73-1	m-Dichlorobenzene	25	29.5	118	84-125
95-50-1	o-Dichlorobenzene	25	27.2	109	82-124
106-46-7	p-Dichlorobenzene	25	26.5	106	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.2	105	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-BS	P20632.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	80-120
100-41-4	Ethylbenzene	25	26.2	105	81-121
591-78-6	2-Hexanone	125	146	117	61-129
87-68-3	Hexachlorobutadiene	25	27.4	110	75-142
98-82-8	Isopropylbenzene	25	27.4	110	83-132
99-87-6	p-Isopropyltoluene	25	31.1	124	79-130
108-10-1	4-Methyl-2-pentanone	125	119	95	66-122
74-83-9	Methyl bromide	25	25.5	102	59-143
74-87-3	Methyl chloride	25	30.5	122	50-159
74-95-3	Methylene bromide	25	24.0	96	78-119
75-09-2	Methylene chloride	25	27.5	110	69-135
78-93-3	Methyl ethyl ketone	125	143	114	56-143
1634-04-4	Methyl Tert Butyl Ether	25	22.5	90	72-117
91-20-3	Naphthalene	25	24.5	98	63-132
103-65-1	n-Propylbenzene	25	30.3	121	82-133
100-42-5	Styrene	25	27.0	108	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.8	107	77-122
71-55-6	1,1,1-Trichloroethane	25	27.6	110	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	26.4	106	72-120
79-00-5	1,1,2-Trichloroethane	25	23.7	95	76-119
87-61-6	1,2,3-Trichlorobenzene	25	24.9	100	68-131
96-18-4	1,2,3-Trichloropropane	25	26.1	104	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.9	100	73-129
95-63-6	1,2,4-Trimethylbenzene	25	27.7	111	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.2	109	79-120
127-18-4	Tetrachloroethylene	25	28.0	112	76-135
108-88-3	Toluene	25	25.5	102	80-120
79-01-6	Trichloroethylene	25	25.5	102	81-126
75-69-4	Trichlorofluoromethane	25	24.9	100	71-156
75-01-4	Vinyl chloride	25	29.6	118	69-159
108-05-4	Vinyl Acetate	125	115	92	43-154
	m,p-Xylene	50	55.1	110	79-126
95-47-6	o-Xylene	25	26.1	104	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP779-BS	P20632.D	1	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-BS	P20690.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	211	169*	50-147
107-02-8	Acrolein	125	102	82	31-154
107-13-1	Acrylonitrile	125	111	89	58-126
71-43-2	Benzene	25	26.1	104	81-122
108-86-1	Bromobenzene	25	23.9	96	80-121
74-97-5	Bromochloromethane	25	23.5	94	76-123
75-27-4	Bromodichloromethane	25	25.3	101	79-123
75-25-2	Bromoform	25	24.9	100	66-123
104-51-8	n-Butylbenzene	25	25.3	101	79-126
135-98-8	sec-Butylbenzene	25	31.1	124	83-133
98-06-6	tert-Butylbenzene	25	29.8	119	80-133
108-90-7	Chlorobenzene	25	28.5	114	82-124
75-00-3	Chloroethane	25	26.3	105	62-144
67-66-3	Chloroform	25	24.9	100	80-124
95-49-8	o-Chlorotoluene	25	28.7	115	81-127
106-43-4	p-Chlorotoluene	25	29.8	119	83-130
110-75-8	2-Chloroethyl vinyl ether	125	88.8	71	56-122
75-15-0	Carbon disulfide	25	22.9	92	66-148
56-23-5	Carbon tetrachloride	25	27.7	111	76-136
75-34-3	1,1-Dichloroethane	25	25.8	103	81-122
75-35-4	1,1-Dichloroethylene	25	27.9	112	78-137
563-58-6	1,1-Dichloropropene	25	27.6	110	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	24.5	98	64-123
106-93-4	1,2-Dibromoethane	25	25.7	103	75-120
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
78-87-5	1,2-Dichloropropane	25	26.1	104	76-124
142-28-9	1,3-Dichloropropane	25	25.7	103	80-118
594-20-7	2,2-Dichloropropane	25	27.4	110	74-139
124-48-1	Dibromochloromethane	25	25.9	104	78-122
75-71-8	Dichlorodifluoromethane	25	40.1	160	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.3	101	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	75-118
541-73-1	m-Dichlorobenzene	25	28.6	114	84-125
95-50-1	o-Dichlorobenzene	25	27.3	109	82-124
106-46-7	p-Dichlorobenzene	25	26.1	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.6	102	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-BS	P20690.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	80-120
100-41-4	Ethylbenzene	25	27.5	110	81-121
591-78-6	2-Hexanone	125	143	114	61-129
87-68-3	Hexachlorobutadiene	25	26.5	106	75-142
98-82-8	Isopropylbenzene	25	29.0	116	83-132
99-87-6	p-Isopropyltoluene	25	31.0	124	79-130
108-10-1	4-Methyl-2-pentanone	125	116	93	66-122
74-83-9	Methyl bromide	25	27.0	108	59-143
74-87-3	Methyl chloride	25	30.1	120	50-159
74-95-3	Methylene bromide	25	23.7	95	78-119
75-09-2	Methylene chloride	25	26.2	105	69-135
78-93-3	Methyl ethyl ketone	125	140	112	56-143
1634-04-4	Methyl Tert Butyl Ether	25	22.2	89	72-117
91-20-3	Naphthalene	25	23.7	95	63-132
103-65-1	n-Propylbenzene	25	30.1	120	82-133
100-42-5	Styrene	25	27.7	111	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.6	106	77-122
71-55-6	1,1,1-Trichloroethane	25	27.0	108	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	72-120
79-00-5	1,1,2-Trichloroethane	25	24.6	98	76-119
87-61-6	1,2,3-Trichlorobenzene	25	23.8	95	68-131
96-18-4	1,2,3-Trichloropropane	25	25.5	102	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.1	96	73-129
95-63-6	1,2,4-Trimethylbenzene	25	26.7	107	79-120
108-67-8	1,3,5-Trimethylbenzene	25	26.9	108	79-120
127-18-4	Tetrachloroethylene	25	26.0	104	76-135
108-88-3	Toluene	25	26.5	106	80-120
79-01-6	Trichloroethylene	25	25.6	102	81-126
75-69-4	Trichlorofluoromethane	25	25.0	100	71-156
75-01-4	Vinyl chloride	25	29.2	117	69-159
108-05-4	Vinyl Acetate	125	115	92	43-154
	m,p-Xylene	50	57.5	115	79-126
95-47-6	o-Xylene	25	28.2	113	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP781-BS	P20690.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	FA9884-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	110	88	99.5	80	10	50-147/21
107-02-8	Acrolein	ND		125	75.4	60	76.4	61	1	31-154/29
107-13-1	Acrylonitrile	ND		125	112	90	119	95	6	58-126/16
71-43-2	Benzene	ND		25	26.5	106	26.3	105	1	81-122/14
108-86-1	Bromobenzene	ND		25	24.1	96	23.6	94	2	80-121/14
74-97-5	Bromochloromethane	ND		25	22.7	91	24.0	96	6	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.7	103	23.7	95	8	79-123/19
75-25-2	Bromoform	ND		25	20.5	82	19.4	78	6	66-123/21
104-51-8	n-Butylbenzene	ND		25	26.2	105	24.8	99	5	79-126/16
135-98-8	sec-Butylbenzene	5.6		25	36.8	125	36.1	122	2	83-133/16
98-06-6	tert-Butylbenzene	0.54	J	25	30.2	119	30.1	118	0	80-133/16
108-90-7	Chlorobenzene	ND		25	28.1	112	28.0	112	0	82-124/14
75-00-3	Chloroethane	ND		25	26.7	107	26.8	107	0	62-144/20
67-66-3	Chloroform	ND		25	25.6	102	25.2	101	2	80-124/15
95-49-8	o-Chlorotoluene	ND		25	28.7	115	28.6	114	0	81-127/15
106-43-4	p-Chlorotoluene	ND		25	29.6	118	29.1	116	2	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	ND		25	21.9	88	21.2	85	3	66-148/23
56-23-5	Carbon tetrachloride	ND		25	26.1	104	23.3	93	11	76-136/23
75-34-3	1,1-Dichloroethane	ND		25	26.6	106	26.3	105	1	81-122/15
75-35-4	1,1-Dichloroethylene	ND		25	26.9	108	28.7	115	6	78-137/18
563-58-6	1,1-Dichloropropene	ND		25	28.2	113	26.8	107	5	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	27.5	110	27.4	110	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	25.4	102	26.1	104	3	75-120/13
107-06-2	1,2-Dichloroethane	ND		25	26.1	104	26.1	104	0	75-125/14
78-87-5	1,2-Dichloropropane	ND		25	26.7	107	27.1	108	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	25.2	101	26.4	106	5	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	28.1	112	26.2	105	7	74-139/17
124-48-1	Dibromochloromethane	ND		25	23.3	93	21.2	85	9	78-122/19
75-71-8	Dichlorodifluoromethane	ND		25	38.1	152	40.5	162	6	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.1	96	24.5	98	2	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.7	87	20.5	82	6	75-118/23
541-73-1	m-Dichlorobenzene	ND		25	28.6	114	28.3	113	1	84-125/14
95-50-1	o-Dichlorobenzene	ND		25	27.0	108	26.9	108	0	82-124/14
106-46-7	p-Dichlorobenzene	ND		25	26.5	106	25.7	103	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.1	104	26.1	104	0	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Compound	FA9884-2 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	ND		25	21.8	87	20.8	83	5	80-120/22
100-41-4	Ethylbenzene	4.6		25	30.3	103	29.2	98	4	81-121/14
591-78-6	2-Hexanone	ND		125	115	92	124	99	8	61-129/18
87-68-3	Hexachlorobutadiene	ND		25	26.6	106	26.2	105	2	75-142/19
98-82-8	Isopropylbenzene	0.84	J	25	29.3	114	28.9	112	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	29.5	118	29.1	116	1	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		125	119	95	131	105	10	66-122/16
74-83-9	Methyl bromide	ND		25	25.0	100	25.5	102	2	59-143/19
74-87-3	Methyl chloride	ND		25	27.6	110	30.6	122	10	50-159/19
74-95-3	Methylene bromide	ND		25	24.3	97	24.8	99	2	78-119/14
75-09-2	Methylene chloride	ND		25	26.7	107	27.0	108	1	69-135/16
78-93-3	Methyl ethyl ketone	ND		125	124	99	134	107	8	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.3	89	23.4	94	5	72-117/14
91-20-3	Naphthalene	2.7	J	25	31.9	117	33.2	122	4	63-132/25
103-65-1	n-Propylbenzene	0.75	J	25	29.7	116	29.6	115	0	82-133/15
100-42-5	Styrene	ND		25	20.1	80	20.7	83	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	25.8	103	24.8	99	4	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		25	27.8	111	27.4	110	1	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.3	101	26.3	105	4	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		25	28.0	112	28.8	115	3	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.9	100	26.0	104	4	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		25	26.2	105	28.1	112	7	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.6	106	27.1	108	2	73-129/20
95-63-6	1,2,4-Trimethylbenzene	0.35	J	25	27.4	108	26.3	104	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	26.3	105	25.9	104	2	79-120/19
127-18-4	Tetrachloroethylene	ND		25	22.5	90	22.7	91	1	76-135/16
108-88-3	Toluene	0.44	J	25	26.0	102	25.8	101	1	80-120/14
79-01-6	Trichloroethylene	ND		25	27.7	111	28.0	112	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	24.1	96	24.3	97	1	71-156/21
75-01-4	Vinyl chloride	ND		25	28.3	113	29.0	116	2	69-159/18
108-05-4	Vinyl Acetate	ND		125	124	99	129	103	4	43-154/14
	m,p-Xylene	1.7	J	50	57.7	112	56.9	110	1	79-126/15
95-47-6	o-Xylene	0.50	J	25	28.3	111	27.7	109	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9884-2MS	P20613.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2MSD	P20614.D	1	11/18/13	EG	n/a	n/a	VP778
FA9884-2	P20608.D	1	11/18/13	EG	n/a	n/a	VP778

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-1, FA9938-2, FA9938-3

CAS No.	Surrogate Recoveries	MS	MSD	FA9884-2	Limits
1868-53-7	Dibromofluoromethane	97%	98%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	94%	101%	79-125%
2037-26-5	Toluene-D8	97%	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	95%	95%	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9938-3MS	P20644.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3MSD	P20645.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3	P20643.D	10	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	FA9938-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1050	84	1150	92	9	50-147/21
107-02-8	Acrolein	ND		1250	647	52	744	60	14	31-154/29
107-13-1	Acrylonitrile	ND		1250	1060	85	1170	94	10	58-126/16
71-43-2	Benzene	162		250	430	107	421	104	2	81-122/14
108-86-1	Bromobenzene	ND		250	244	98	239	96	2	80-121/14
74-97-5	Bromochloromethane	ND		250	236	94	223	89	6	76-123/14
75-27-4	Bromodichloromethane	ND		250	242	97	213	85	13	79-123/19
75-25-2	Bromoform	ND		250	176	70	172	69	2	66-123/21
104-51-8	n-Butylbenzene	ND		250	247	99	236	94	5	79-126/16
135-98-8	sec-Butylbenzene	ND		250	313	125	300	120	4	83-133/16
98-06-6	tert-Butylbenzene	ND		250	290	116	285	114	2	80-133/16
108-90-7	Chlorobenzene	ND		250	291	116	279	112	4	82-124/14
75-00-3	Chloroethane	ND		250	260	104	244	98	6	62-144/20
67-66-3	Chloroform	ND		250	260	104	256	102	2	80-124/15
95-49-8	o-Chlorotoluene	ND		250	293	117	287	115	2	81-127/15
106-43-4	p-Chlorotoluene	ND		250	301	120	285	114	5	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		1250	78.3	6*	ND	0*	200*	56-122/23
75-15-0	Carbon disulfide	ND		250	180	72	145	58*	22	66-148/23
56-23-5	Carbon tetrachloride	ND		250	272	109	232	93	16	76-136/23
75-34-3	1,1-Dichloroethane	ND		250	266	106	260	104	2	81-122/15
75-35-4	1,1-Dichloroethylene	ND		250	283	113	295	118	4	78-137/18
563-58-6	1,1-Dichloropropene	ND		250	282	113	267	107	5	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	242	97	227	91	6	64-123/18
106-93-4	1,2-Dibromoethane	ND		250	262	105	248	99	5	75-120/13
107-06-2	1,2-Dichloroethane	ND		250	260	104	263	105	1	75-125/14
78-87-5	1,2-Dichloropropane	ND		250	272	109	262	105	4	76-124/14
142-28-9	1,3-Dichloropropane	ND		250	247	99	249	100	1	80-118/13
594-20-7	2,2-Dichloropropane	ND		250	269	108	256	102	5	74-139/17
124-48-1	Dibromochloromethane	ND		250	204	82	183	73*	11	78-122/19
75-71-8	Dichlorodifluoromethane	ND		250	379	152	390	156	3	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		250	235	94	239	96	2	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	202	81	17	75-118/23
541-73-1	m-Dichlorobenzene	ND		250	293	117	291	116	1	84-125/14
95-50-1	o-Dichlorobenzene	ND		250	271	108	272	109	0	82-124/14
106-46-7	p-Dichlorobenzene	ND		250	266	106	260	104	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	268	107	261	104	3	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9938-3MS	P20644.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3MSD	P20645.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3	P20643.D	10	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Compound	FA9938-3 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		250	253	101	215	86	16	80-120/22
100-41-4	Ethylbenzene	23.5		250	297	109	286	105	4	81-121/14
591-78-6	2-Hexanone	ND		1250	1070	86	1170	94	9	61-129/18
87-68-3	Hexachlorobutadiene	ND		250	246	98	253	101	3	75-142/19
98-82-8	Isopropylbenzene	ND		250	285	114	269	108	6	83-132/15
99-87-6	p-Isopropyltoluene	ND		250	304	122	294	118	3	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		1250	1180	94	1230	98	4	66-122/16
74-83-9	Methyl bromide	ND		250	249	100	243	97	2	59-143/19
74-87-3	Methyl chloride	ND		250	291	116	290	116	0	50-159/19
74-95-3	Methylene bromide	ND		250	244	98	239	96	2	78-119/14
75-09-2	Methylene chloride	ND		250	282	113	266	106	6	69-135/16
78-93-3	Methyl ethyl ketone	ND		1250	1040	83	1070	86	3	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		250	222	89	231	92	4	72-117/14
91-20-3	Naphthalene	ND		250	224	90	250	100	11	63-132/25
103-65-1	n-Propylbenzene	2.3	J	250	306	121	293	116	4	82-133/15
100-42-5	Styrene	ND		250	253	101	239	96	6	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	266	106	238	95	11	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		250	281	112	264	106	6	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	257	103	271	108	5	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		250	243	97	242	97	0	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	214	86	240	96	11	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		250	257	103	274	110	6	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		250	218	87	233	93	7	73-129/20
95-63-6	1,2,4-Trimethylbenzene	8.2	J	250	284	110	276	107	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	3.3	J	250	276	109	263	104	5	79-120/19
127-18-4	Tetrachloroethylene	ND		250	231	92	221	88	4	76-135/16
108-88-3	Toluene	199		250	460	104	460	104	0	80-120/14
79-01-6	Trichloroethylene	ND		250	278	111	284	114	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		250	248	99	234	94	6	71-156/21
75-01-4	Vinyl chloride	ND		250	273	109	264	106	3	69-159/18
108-05-4	Vinyl Acetate	ND		1250	1240	99	1250	100	1	43-154/14
	m,p-Xylene	56.3		500	639	117	610	111	5	79-126/15
95-47-6	o-Xylene	22.7		250	299	111	291	107	3	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9938-3MS	P20644.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3MSD	P20645.D	10	11/19/13	EG	n/a	n/a	VP779
FA9938-3	P20643.D	10	11/19/13	EG	n/a	n/a	VP779

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-3, FA9938-6, FA9938-7, FA9938-8, FA9938-9, FA9938-10

CAS No.	Surrogate Recoveries	MS	MSD	FA9938-3	Limits
1868-53-7	Dibromofluoromethane	97%	94%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	102%	79-125%
2037-26-5	Toluene-D8	95%	95%	97%	85-112%
460-00-4	4-Bromofluorobenzene	96%	95%	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9971-4MS	P20702.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4MSD	P20703.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4	P20699.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	FA9971-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	102	82	114	91	11	50-147/21
107-02-8	Acrolein	20 U		125	87.0	70	75.0	60	15	31-154/29
107-13-1	Acrylonitrile	10 U		125	109	87	113	90	4	58-126/16
71-43-2	Benzene	1.0 U		25	26.6	106	25.8	103	3	81-122/14
108-86-1	Bromobenzene	1.0 U		25	23.6	94	23.9	96	1	80-121/14
74-97-5	Bromochloromethane	1.0 U		25	22.0	88	21.9	88	0	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	23.6	94	22.8	91	3	79-123/19
75-25-2	Bromoform	1.0 U		25	19.8	79	19.2	77	3	66-123/21
104-51-8	n-Butylbenzene	1.0 U		25	24.3	97	23.2	93	5	79-126/16
135-98-8	sec-Butylbenzene	1.0 U		25	30.3	121	29.4	118	3	83-133/16
98-06-6	tert-Butylbenzene	1.0 U		25	28.0	112	28.0	112	0	80-133/16
108-90-7	Chlorobenzene	1.0 U		25	28.4	114	27.6	110	3	82-124/14
75-00-3	Chloroethane	2.0 U		25	25.2	101	25.4	102	1	62-144/20
67-66-3	Chloroform	1.0 U		25	25.2	101	25.4	102	1	80-124/15
95-49-8	o-Chlorotoluene	1.0 U		25	27.9	112	27.5	110	1	81-127/15
106-43-4	p-Chlorotoluene	1.0 U		25	29.2	117	27.8	111	5	83-130/15
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	2.0 U		25	19.1	76	17.6	70	8	66-148/23
56-23-5	Carbon tetrachloride	1.0 U		25	26.9	108	24.0	96	11	76-136/23
75-34-3	1,1-Dichloroethane	0.86	I	25	26.7	103	27.1	105	1	81-122/15
75-35-4	1,1-Dichloroethylene	1.0 U		25	28.2	113	27.8	111	1	78-137/18
563-58-6	1,1-Dichloropropene	1.0 U		25	27.6	110	27.2	109	1	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.5	102	24.1	96	6	64-123/18
106-93-4	1,2-Dibromoethane	1.0 U		25	24.2	97	25.4	102	5	75-120/13
107-06-2	1,2-Dichloroethane	1.0 U		25	25.1	100	25.8	103	3	75-125/14
78-87-5	1,2-Dichloropropane	1.0 U		25	26.1	104	25.4	102	3	76-124/14
142-28-9	1,3-Dichloropropane	1.0 U		25	24.5	98	24.8	99	1	80-118/13
594-20-7	2,2-Dichloropropane	1.0 U		25	27.0	108	25.7	103	5	74-139/17
124-48-1	Dibromochloromethane	1.0 U		25	21.8	87	21.0	84	4	78-122/19
75-71-8	Dichlorodifluoromethane	2.0 U		25	39.3	157	39.3	157	0	42-167/19
156-59-2	cis-1,2-Dichloroethylene	0.83	I	25	25.4	98	23.8	92	7	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	23.4	94	20.3	81	14	75-118/23
541-73-1	m-Dichlorobenzene	1.0 U		25	27.7	111	27.7	111	0	84-125/14
95-50-1	o-Dichlorobenzene	1.0 U		25	26.5	106	26.0	104	2	82-124/14
106-46-7	p-Dichlorobenzene	1.0 U		25	25.9	104	25.5	102	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	26.2	105	25.3	101	3	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9971-4MS	P20702.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4MSD	P20703.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4	P20699.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Compound	FA9971-4 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	24.9	100	22.3	89	11	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	26.8	107	25.1	100	7	81-121/14
591-78-6	2-Hexanone	10 U		125	111	89	115	92	4	61-129/18
87-68-3	Hexachlorobutadiene	2.0 U		25	23.7	95	25.2	101	6	75-142/19
98-82-8	Isopropylbenzene	1.0 U		25	27.8	111	26.8	107	4	83-132/15
99-87-6	p-Isopropyltoluene	1.0 U		25	29.2	117	27.9	112	5	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0 U		125	116	93	123	98	6	66-122/16
74-83-9	Methyl bromide	2.0 U		25	25.3	101	24.9	100	2	59-143/19
74-87-3	Methyl chloride	2.0 U		25	28.5	114	30.2	121	6	50-159/19
74-95-3	Methylene bromide	2.0 U		25	23.6	94	24.0	96	2	78-119/14
75-09-2	Methylene chloride	5.0 U		25	27.4	110	25.2	101	8	69-135/16
78-93-3	Methyl ethyl ketone	5.0 U		125	101	81	113	90	11	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	22.3	89	22.4	90	0	72-117/14
91-20-3	Naphthalene	5.0 U		25	21.5	86	24.4	98	13	63-132/25
103-65-1	n-Propylbenzene	1.0 U		25	29.0	116	27.9	112	4	82-133/15
100-42-5	Styrene	1.0 U		25	23.7	95	21.4	86	10	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	25.6	102	24.9	100	3	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0 U		25	27.5	110	27.0	108	2	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	24.3	97	25.8	103	6	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0 U		25	23.9	96	23.7	95	1	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	21.1	84	24.3	97	14	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0 U		25	25.2	101	27.8	111	10	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	21.2	85	23.1	92	9	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	26.0	104	24.3	97	7	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	25.4	102	23.3	93	9	79-120/19
127-18-4	Tetrachloroethylene	1.0 U		25	22.7	91	21.1	84	7	76-135/16
108-88-3	Toluene	0.26	I	25	25.7	102	24.9	99	3	80-120/14
79-01-6	Trichloroethylene	1.0 U		25	26.7	107	27.2	109	2	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		25	24.6	98	24.2	97	2	71-156/21
75-01-4	Vinyl chloride	7.0		25	34.0	108	32.9	104	3	69-159/18
108-05-4	Vinyl Acetate	10 U		125	117	94	118	94	1	43-154/14
	m,p-Xylene	2.0 U		50	56.3	113	52.6	105	7	79-126/15
95-47-6	o-Xylene	1.0 U		25	26.4	106	25.3	101	4	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9971-4MS	P20702.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4MSD	P20703.D	1	11/21/13	EG	n/a	n/a	VP781
FA9971-4	P20699.D	1	11/21/13	EG	n/a	n/a	VP781

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries	MS	MSD	FA9971-4	Limits
1868-53-7	Dibromofluoromethane	96%	95%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	98%	97%	79-125%
2037-26-5	Toluene-D8	94%	95%	96%	85-112%
460-00-4	4-Bromofluorobenzene	93%	95%	105%	83-118%

* = 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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MB	X031709.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	34%	14-67%
4165-62-2	Phenol-d5	20%	10-50%
118-79-6	2,4,6-Tribromophenol	73%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	35.7	71	52-98
59-50-7	4-Chloro-3-methyl phenol	50	35.2	70	54-103
120-83-2	2,4-Dichlorophenol	50	36.3	73	53-103
105-67-9	2,4-Dimethylphenol	50	31.6	63	43-90
51-28-5	2,4-Dinitrophenol	100	69.7	70	44-112
534-52-1	4,6-Dinitro-o-cresol	100	80.9	81	66-121
95-48-7	2-Methylphenol	50	31.9	64	43-90
	3&4-Methylphenol	100	61.0	61	36-88
88-75-5	2-Nitrophenol	50	36.0	72	53-102
100-02-7	4-Nitrophenol	100	28.4	28	18-62
87-86-5	Pentachlorophenol	100	86.2	86	61-115
108-95-2	Phenol	50	14.4	29	19-56
95-95-4	2,4,5-Trichlorophenol	50	42.6	85	62-109
88-06-2	2,4,6-Trichlorophenol	50	42.0	84	59-107
83-32-9	Acenaphthene	50	42.7	85	61-107
208-96-8	Acenaphthylene	50	43.4	87	60-104
62-53-3	Aniline	50	32.7	65	47-100
120-12-7	Anthracene	50	42.8	86	65-108
92-87-5	Benzidine	50	31.9	64	25-99
56-55-3	Benzo(a)anthracene	50	42.8	86	66-111
50-32-8	Benzo(a)pyrene	50	42.4	85	62-107
205-99-2	Benzo(b)fluoranthene	50	44.5	89	65-114
191-24-2	Benzo(g,h,i)perylene	50	46.9	94	66-116
207-08-9	Benzo(k)fluoranthene	50	44.7	89	65-114
101-55-3	4-Bromophenyl phenyl ether	50	36.2	72	65-109
85-68-7	Butyl benzyl phthalate	50	43.9	88	65-112
100-51-6	Benzyl Alcohol	50	30.8	62	46-94
91-58-7	2-Chloronaphthalene	50	40.7	81	57-103
106-47-8	4-Chloroaniline	50	33.4	67	49-105
86-74-8	Carbazole	50	37.1	74	59-113
218-01-9	Chrysene	50	45.3	91	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	36.6	73	51-102
111-44-4	bis(2-Chloroethyl)ether	50	38.9	78	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	38.8	78	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	40.8	82	62-105
95-50-1	1,2-Dichlorobenzene	50	37.5	75	48-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
122-66-7	1,2-Diphenylhydrazine	50	42.0	84	61-110
541-73-1	1,3-Dichlorobenzene	50	37.2	74	45-95
106-46-7	1,4-Dichlorobenzene	50	38.8	78	45-98
121-14-2	2,4-Dinitrotoluene	50	39.8	80	61-110
606-20-2	2,6-Dinitrotoluene	50	40.6	81	63-108
91-94-1	3,3'-Dichlorobenzidine	50	40.6	81	46-117
53-70-3	Dibenzo(a,h)anthracene	50	43.9	88	66-119
132-64-9	Dibenzofuran	50	38.7	77	61-106
84-74-2	Di-n-butyl phthalate	50	40.4	81	65-107
117-84-0	Di-n-octyl phthalate	50	44.2	88	62-118
84-66-2	Diethyl phthalate	50	40.7	81	64-108
131-11-3	Dimethyl phthalate	50	39.9	80	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.0	88	61-117
206-44-0	Fluoranthene	50	40.1	80	63-106
86-73-7	Fluorene	50	43.9	88	62-108
118-74-1	Hexachlorobenzene	50	41.9	84	63-108
87-68-3	Hexachlorobutadiene	50	38.1	76	42-102
77-47-4	Hexachlorocyclopentadiene	50	31.4	63	39-102
67-72-1	Hexachloroethane	50	39.3	79	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	43.1	86	64-119
78-59-1	Isophorone	50	34.7	69	43-87
90-12-0	1-Methylnaphthalene	50	37.4	75	53-102
91-57-6	2-Methylnaphthalene	50	33.5	67	51-102
88-74-4	2-Nitroaniline	50	39.9	80	54-128
99-09-2	3-Nitroaniline	50	37.2	74	56-106
100-01-6	4-Nitroaniline	50	37.4	75	55-120
91-20-3	Naphthalene	50	38.2	76	47-100
98-95-3	Nitrobenzene	50	35.7	71	50-104
62-75-9	N-Nitrosodimethylamine	50	24.5	49	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	38.9	78	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.4	83	64-108
85-01-8	Phenanthrene	50	43.8	88	66-110
129-00-0	Pyrene	50	46.8	94	64-113
110-86-1	Pyridine	50	19.5	39	23-74
120-82-1	1,2,4-Trichlorobenzene	50	34.7	69	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-BS	X031708.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-67%
4165-62-2	Phenol-d5	30%	10-50%
118-79-6	2,4,6-Tribromophenol	86%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	83%	40-106%
1718-51-0	Terphenyl-d14	97%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	FA9962-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	4.9 U		96.2	61.8	64	54.0	56	13	52-98/25
59-50-7	4-Chloro-3-methyl phenol	4.9 U		96.2	65.9	69	61.1	64	8	54-103/23
120-83-2	2,4-Dichlorophenol	4.9 U		96.2	62.8	65	58.2	61	8	53-103/26
105-67-9	2,4-Dimethylphenol	4.9 U		96.2	56.5	59	52.2	54	8	43-90/27
51-28-5	2,4-Dinitrophenol	24 U		192	130	68	132	69	2	44-112/25
534-52-1	4,6-Dinitro-o-cresol	9.7 U		192	145	75	146	76	1	66-121/23
95-48-7	2-Methylphenol	4.9 U		96.2	58.3	61	54.7	57	6	43-90/28
	3&4-Methylphenol	4.9 U		192	119	62	111	58	7	36-88/28
88-75-5	2-Nitrophenol	4.9 U		96.2	62.6	65	57.3	60	9	53-102/29
100-02-7	4-Nitrophenol	24 U		192	67.1	35	81.7	42	20	18-62/33
87-86-5	Pentachlorophenol	24 U		192	157	82	149	77	5	61-115/26
108-95-2	Phenol	4.9 U		96.2	32.0	33	33.9	35	6	19-56/35
95-95-4	2,4,5-Trichlorophenol	4.9 U		96.2	73.5	76	70.4	73	4	62-109/22
88-06-2	2,4,6-Trichlorophenol	4.9 U		96.2	73.4	76	69.8	73	5	59-107/23
83-32-9	Acenaphthene	4.9 U		96.2	75.6	79	71.0	74	6	61-107/22
208-96-8	Acenaphthylene	4.9 U		96.2	75.8	79	72.5	75	4	60-104/22
62-53-3	Aniline	4.9 U		96.2	56.7	59	50.2	52	12	47-100/30
120-12-7	Anthracene	4.9 U		96.2	76.9	80	72.9	76	5	65-108/20
92-87-5	Benzidine	24 U		96.2	21.0	22*	23.7	25	12	25-99/31
56-55-3	Benzo(a)anthracene	4.9 U		96.2	74.8	78	71.5	74	5	66-111/22
50-32-8	Benzo(a)pyrene	4.9 U		96.2	73.5	76	70.4	73	4	62-107/23
205-99-2	Benzo(b)fluoranthene	4.9 U		96.2	75.9	79	72.4	75	5	65-114/23
191-24-2	Benzo(g,h,i)perylene	4.9 U		96.2	79.2	82	68.6	71	14	66-116/23
207-08-9	Benzo(k)fluoranthene	4.9 U		96.2	78.5	82	75.2	78	4	65-114/24
101-55-3	4-Bromophenyl phenyl ether	4.9 U		96.2	62.9	65	62.6	65	0	65-109/23
85-68-7	Butyl benzyl phthalate	4.9 U		96.2	74.4	77	73.6	77	1	65-112/24
100-51-6	Benzyl Alcohol	4.9 U		96.2	57.5	60	52.8	55	9	46-94/27
91-58-7	2-Chloronaphthalene	4.9 U		96.2	70.6	73	67.1	70	5	57-103/23
106-47-8	4-Chloroaniline	4.9 U		96.2	60.2	63	55.2	57	9	49-105/27
86-74-8	Carbazole	4.9 U		96.2	68.6	71	62.1	65	10	59-113/21
218-01-9	Chrysene	4.9 U		96.2	79.1	82	75.3	78	5	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	4.9 U		96.2	63.9	66	58.6	61	9	51-102/28
111-44-4	bis(2-Chloroethyl)ether	4.9 U		96.2	64.2	67	57.0	59	12	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	4.9 U		96.2	65.2	68	57.2	59	13	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	4.9 U		96.2	70.1	73	66.9	70	5	62-105/20
95-50-1	1,2-Dichlorobenzene	4.9 U		96.2	64.2	67	55.3	58	15	48-97/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	FA9962-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	4.9 U		96.2	71.9	75	71.5	74	1	61-110/24
541-73-1	1,3-Dichlorobenzene	4.9 U		96.2	64.3	67	56.5	59	13	45-95/25
106-46-7	1,4-Dichlorobenzene	4.9 U		96.2	66.7	69	59.1	61	12	45-98/25
121-14-2	2,4-Dinitrotoluene	4.9 U		96.2	70.7	74	67.8	71	4	61-110/21
606-20-2	2,6-Dinitrotoluene	4.9 U		96.2	71.1	74	67.8	71	5	63-108/21
91-94-1	3,3'-Dichlorobenzidine	4.9 U		96.2	69.0	72	63.4	66	8	46-117/29
53-70-3	Dibenzo(a,h)anthracene	4.9 U		96.2	76.2	79	64.1	67	17	66-119/24
132-64-9	Dibenzofuran	4.9 U		96.2	67.8	71	63.7	66	6	61-106/21
84-74-2	Di-n-butyl phthalate	4.9 U		96.2	73.5	76	68.1	71	8	65-107/21
117-84-0	Di-n-octyl phthalate	4.9 U		96.2	73.8	77	75.2	78	2	62-118/24
84-66-2	Diethyl phthalate	4.9 U		96.2	72.4	75	69.2	72	5	64-108/21
131-11-3	Dimethyl phthalate	4.9 U		96.2	70.3	73	66.8	69	5	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	4.9 U		96.2	74.3	77	73.8	77	1	61-117/23
206-44-0	Fluoranthene	4.9 U		96.2	77.4	80	68.7	71	12	63-106/21
86-73-7	Fluorene	4.9 U		96.2	78.9	82	74.4	77	6	62-108/20
118-74-1	Hexachlorobenzene	4.9 U		96.2	73.9	77	72.7	76	2	63-108/22
87-68-3	Hexachlorobutadiene	4.9 U		96.2	66.9	70	61.2	64	9	42-102/28
77-47-4	Hexachlorocyclopentadiene	4.9 U		96.2	53.0	55	51.8	54	2	39-102/29
67-72-1	Hexachloroethane	4.9 U		96.2	66.6	69	58.2	61	13	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.9 U		96.2	68.1	71	63.6	66	7	64-119/24
78-59-1	Isophorone	4.9 U		96.2	62.8	65	57.9	60	8	43-87/25
90-12-0	1-Methylnaphthalene	4.9 U		96.2	67.9	71	61.4	64	10	53-102/27
91-57-6	2-Methylnaphthalene	4.9 U		96.2	59.1	61	54.0	56	9	51-102/26
88-74-4	2-Nitroaniline	4.9 U		96.2	69.7	72	64.9	67	7	54-128/24
99-09-2	3-Nitroaniline	4.9 U		96.2	67.2	70	62.1	65	8	56-106/27
100-01-6	4-Nitroaniline	4.9 U		96.2	68.6	71	62.4	65	9	55-120/24
91-20-3	Naphthalene	4.9 U		96.2	67.5	70	61.2	64	10	47-100/29
98-95-3	Nitrobenzene	4.9 U		96.2	61.8	64	55.8	58	10	50-104/28
62-75-9	N-Nitrosodimethylamine	4.9 U		96.2	51.9	54	49.5	51	5	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	4.9 U		96.2	66.5	69	60.7	63	9	52-104/25
86-30-6	N-Nitrosodiphenylamine	4.9 U		96.2	73.0	76	70.1	73	4	64-108/23
85-01-8	Phenanthrene	4.9 U		96.2	77.4	80	73.9	77	5	66-110/21
129-00-0	Pyrene	4.9 U		96.2	73.3	76	78.3	81	7	64-113/23
110-86-1	Pyridine	9.7 U		96.2	38.0	40	36.2	38	5	23-74/34
120-82-1	1,2,4-Trichlorobenzene	4.9 U		96.2	61.4	64	55.2	57	11	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49439-MS	X031711.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
OP49439-MSD	X031712.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504
FA9962-1	X031710.D	1	11/19/13	NAF	11/14/13	OP49439	SX1504

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Surrogate Recoveries	MS	MSD	FA9962-1	Limits
367-12-4	2-Fluorophenol	47%	47%	36%	14-67%
4165-62-2	Phenol-d5	33%	36%	23%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	75%	82%	33-118%
4165-60-0	Nitrobenzene-d5	67%	61%	72%	42-108%
321-60-8	2-Fluorobiphenyl	75%	71%	73%	40-106%
1718-51-0	Terphenyl-d14	81%	84%	87%	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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5107-MB	CD125152.D	1	11/14/13	CP	n/a	n/a	GCD5107

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-5

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	85%	70-131%
98-08-8	aaa-Trifluorotoluene	90%	69-143%

Method Blank Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5108-MB	CD125183.D	1	11/15/13	CP	n/a	n/a	GCD5108

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-3, FA9938-4

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	88%	70-131%
98-08-8	aaa-Trifluorotoluene	93%	69-143%

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5107-BS	CD125151.D	1	11/14/13	CP	n/a	n/a	GCD5107

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.405	101	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-131%
98-08-8	aaa-Trifluorotoluene	104%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5108-BS	CD125182.D	1	11/15/13	CP	n/a	n/a	GCD5108

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-3, FA9938-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.397	99	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-131%
98-08-8	aaa-Trifluorotoluene	107%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9850-15MS	CD125176.D	1	11/14/13	CP	n/a	n/a	GCD5107
FA9850-15MSD	CD125177.D	1	11/14/13	CP	n/a	n/a	GCD5107
FA9850-15	CD125154.D	1	11/14/13	CP	n/a	n/a	GCD5107

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-5

CAS No.	Compound	FA9850-15 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.0884	J	0.4	0.452	91	0.452	91	0	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA9850-15	Limits
460-00-4	4-Bromofluorobenzene	91%	92%	90%	70-131%
98-08-8	aaa-Trifluorotoluene	110%	106%	96%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA9989-1MS	CD125190.D	1	11/15/13	CP	n/a	n/a	GCD5108
FA9989-1MSD	CD125191.D	1	11/15/13	CP	n/a	n/a	GCD5108
FA9989-1	CD125185.D	1	11/15/13	CP	n/a	n/a	GCD5108

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-3, FA9938-4

CAS No.	Compound	FA9989-1 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	0.397	99	0.399	100	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA9989-1	Limits
460-00-4	4-Bromofluorobenzene	93%	96%	85%	70-131%
98-08-8	aaa-Trifluorotoluene	109%	107%	91%	69-143%

* = 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: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-MB	YY39348.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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	98%	50-131%

Blank Spike Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-BS	YY39347.D	1	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.899	90	56-123
	TPH (> C22-C36)	1	1.07	107	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	120%	50-131%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA9938
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49455-MS	YY39350.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447
OP49455-MSD	YY39351.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447
FA9884-1	YY39349.D	10	11/25/13	SJL	11/16/13	OP49455	GYY1447

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

CAS No.	Compound	FA9884-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	3.13		0.962	2.21	-96* [a]	2.61	-54* [a]	17	56-123/33
	TPH (> C22-C36)	ND		0.962	1.10	114	1.39	145*	23	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA9884-1	Limits
84-15-1	o-Terphenyl	111%	144%* [b]	121%	50-131%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.

8.3.1

8

* = 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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					11/21/13		11/21/13
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29				
Lead	5.0	1.1	1.1				
Magnesium	5000	74	74				
Manganese	15	.7	.7	0.40	<15	0.0	<15
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13 11/21/13

Metal	FA9939-1 Original	DUP	RPD	QC Limits	FA9939-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	1.1	0.80	40.0 (a)	0-20	1.1	518	500	103.4	80-120
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

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
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	FA9939-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	1.1	512	500	102.2	1.2	20
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	510	500	102.0	80-120
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	FA9939-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	1.10	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26399
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	Sample ml	Final ml	FA9939-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese	9.8	10	1.1	1.176	52.4	0.2	2.5	50	102.4	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP26399: FA9938-1F, FA9938-2F, FA9938-3F, FA9938-4F, FA9938-5F

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15		
Antimony	6.0	1.3	1.3		
Arsenic	10	1.6	2.5		
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5		
Calcium	1000	50	50		
Chromium	10	1.8	2		
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	29	29	-1.6	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	74	74		
Manganese	15	.7	.7	0.10	<15
Molybdenum	50	.6	1		
Nickel	40	.5	.5		
Potassium	10000	200	200		
Selenium	10	2	2		
Silver	10	.5	.5		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.3	1.3		
Tin	50	.7	1.8		
Titanium	10	.9	1		
Vanadium	50	.5	1		
Zinc	20	3	5		

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			11/21/13					11/21/13	
Metal	FA9955-1 Original	DUP	RPD	QC Limits	FA9955-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	0.0	0.0	NC	0-20	0.0	26900	26000	103.5	80-120
Lead	anr								
Magnesium									
Manganese	1.4	1.7	19.4	0-20	1.4	502	500	100.1	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	FA9955-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	0.0	26800	26000	103.1	0.4	20
Lead	anr					
Magnesium						
Manganese	1.4	497	500	99.1	1.0	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26900	26000	103.5	80-120
Lead	anr			
Magnesium				
Manganese	500	500	100.0	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	FA9955-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	0.00	0.00	NC	0-10
Lead	anr			
Magnesium				
Manganese	1.40	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP26405
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/13

Metal	Sample ml	Final ml	FA9955-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10			2930	0.2	150	3000	97.7	80-120
Lead										
Magnesium										
Manganese	9.8	10	1.4	1.372	51.4	0.2	2.5	50	100.1	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP26405: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5

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

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: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
BOD, 5 Day	GP22919/GN58888	2.0	0.0	mg/l	198	185	93.4	85-115%
Chemical Oxygen Demand	GP22944/GN58918	20	0.0	mg/l	750	725	96.7	87-122%
Chemical Oxygen Demand	GP22948/GN58931	20	0.0	mg/l	50.0mg/l	48.8	97.6	87-122%
Chloride	GP22905/GN58854	2.0	0.0	mg/l	50	50.4	100.8	90-110%
Fluoride	GP22905/GN58854	0.20	0.0	mg/l	2.5	2.45	98.0	90-110%
Iron, Ferrous	GN58829	0.10	0.0	mg/l	.500	0.54	108.0	82-115%
Nitrogen, Ammonia	GP22938/GN59019	0.10	0.0	mg/l	2.5	2.74	109.6	90-110%
Nitrogen, Nitrate	GP22905/GN58854	0.10	0.0	mg/l	2.5	2.60	104.0	90-110%
Nitrogen, Nitrate	GP22906/GN58854	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrite	GP22905/GN58854	0.10	0.0	mg/l	2.5	2.53	101.2	90-110%
Nitrogen, Nitrite	GP22906/GN58854	0.10	0.0	mg/l	2.5	2.53	101.2	90-110%
Nitrogen, Total Kjeldahl	GP22961/GN58980	0.53	0.0	mg/l	2.63	2.64	100.6	90-110%
Solids, Total Dissolved	GN58889	100	0.0	mg/l				
Sulfate	GP22905/GN58854	2.0	0.0	mg/l	50	50.8	101.6	90-110%
Sulfate	GP22906/GN58854	2.0	0.0	mg/l	50	50.7	101.4	90-110%

Associated Samples:
Batch GN58829: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GN58889: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22905: FA9938-1, FA9938-2
Batch GP22906: FA9938-3, FA9938-4, FA9938-5
Batch GP22919: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22938: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22944: FA9938-1, FA9938-2, FA9938-5
Batch GP22948: FA9938-3, FA9938-4
Batch GP22961: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP22919/GN58888	FA9938-1	mg/l	14.5	14.5	0.0	0-30%
Iron, Ferrous	GN58829	FA9932-1	mg/l	6.7	6.6	1.5	0-31%
Solids, Total Dissolved	GN58889	FA9939-9	mg/l	1110	1110	0.0	0-5%

Associated Samples:
Batch GN58829: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GN58889: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22919: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP22944/GN58918	FA9932-10	mg/l	659	750	1300	85.0*(a)	87-122%
Chemical Oxygen Demand	GP22948/GN58931	FA9945-6	mg/l	14.6	50.0	58.6	87.8	87-122%
Chloride	GP22905/GN58854	FA9939-4	mg/l	8.7	50	58.0	98.6	90-110%
Fluoride	GP22905/GN58854	FA9939-4	mg/l	0.60 U	2.5	1.8	72.0N(a)	90-110%
Nitrogen, Ammonia	GP22938/GN59019	FA9939-12	mg/l	0.030 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP22905/GN58854	FA9939-4	mg/l	3.8	2.5	5.9	84.0N(a)	90-110%
Nitrogen, Nitrate	GP22906/GN58854	FA9936-1	mg/l	1.4	2.5	4.0	104.0	90-110%
Nitrogen, Nitrite	GP22905/GN58854	FA9939-4	mg/l	0.50 U	2.5	2.2	88.0N(a)	90-110%
Nitrogen, Nitrite	GP22906/GN58854	FA9936-1	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Nitrogen, Total Kjeldahl	GP22961/GN58980	FA9841-3	mg/l	0.25	2.63	3.2	112.4N(a)	90-110%
Sulfate	GP22905/GN58854	FA9939-4	mg/l	153	50	191	76.0N(a)	90-110%
Sulfate	GP22906/GN58854	FA9936-1	mg/l	0.81	50	52.8	104.0	90-110%

Associated Samples:
Batch GP22905: FA9938-1, FA9938-2
Batch GP22906: FA9938-3, FA9938-4, FA9938-5
Batch GP22938: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22944: FA9938-1, FA9938-2, FA9938-5
Batch GP22948: FA9938-3, FA9938-4
Batch GP22961: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA9938
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chemical Oxygen Demand	GP22944/GN58918	FA9932-10	mg/l	659	750	1320	1.7	26%
Chemical Oxygen Demand	GP22948/GN58931	FA9945-6	mg/l	14.6	50.0	58.6	0.0	26%
Chloride	GP22905/GN58854	FA9939-4	mg/l	8.7	50	58.0	0.0	20%
Fluoride	GP22905/GN58854	FA9939-4	mg/l	0.60 U	2.5	2.2	20.0	20%
Nitrogen, Ammonia	GP22938/GN59019	FA9939-12	mg/l	0.030 U	2.5	2.5	4.1	20%
Nitrogen, Nitrate	GP22905/GN58854	FA9939-4	mg/l	3.8	2.5	5.9	0.0	20%
Nitrogen, Nitrate	GP22906/GN58854	FA9936-1	mg/l	1.4	2.5	4.1	2.5	20%
Nitrogen, Nitrite	GP22905/GN58854	FA9939-4	mg/l	0.50 U	2.5	2.2	0.0	20%
Nitrogen, Nitrite	GP22906/GN58854	FA9936-1	mg/l	0.050 U	2.5	2.6	0.0	20%
Nitrogen, Total Kjeldahl	GP22961/GN58980	FA9841-3	mg/l	0.25	2.63	3.3	3.1	20%
Sulfate	GP22905/GN58854	FA9939-4	mg/l	153	50	188	1.6	20%
Sulfate	GP22906/GN58854	FA9936-1	mg/l	0.81	50	52.6	0.4	20%

Associated Samples:
Batch GP22905: FA9938-1, FA9938-2
Batch GP22906: FA9938-3, FA9938-4, FA9938-5
Batch GP22938: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
Batch GP22944: FA9938-1, FA9938-2, FA9938-5
Batch GP22948: FA9938-3, FA9938-4
Batch GP22961: FA9938-1, FA9938-2, FA9938-3, FA9938-4, FA9938-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

03/19/14

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA12256

Sampling Date: 02/05/14

Report to:

Nation View

Fermin.Esquibel@nationview.net

ATTN: Fermin Esquibel

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

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Sample Summary

Nation View

Job No: FA12256

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA12256-1	02/05/14	13:20	LPF	02/06/14	AQ	Ground Water	SS17-MW22
FA12256-1F	02/05/14	13:20	LPF	02/06/14	AQ	Groundwater Filtered	SS17-MW22
FA12256-2	02/05/14	11:55	LPF	02/06/14	AQ	Ground Water	SS17-MW23
FA12256-2F	02/05/14	11:55	LPF	02/06/14	AQ	Groundwater Filtered	SS17-MW23

Summary of Hits

Job Number: FA12256
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/05/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA12256-1	**SS17-MW22**					
Benzene		0.52 J	1.0	0.24	ug/l	SW846 8260B
1,2-Dichloroethane		1.3	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		0.30 J	1.0	0.28	ug/l	SW846 8260B
Isopropylbenzene		0.25 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0628 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.190 J	0.24	0.094	mg/l	SW846 8015C
TPH (> C22-C36)		0.289	0.24	0.094	mg/l	SW846 8015C
Iron		17900	1500	85	ug/l	SW846 6010C
Manganese		17300	75	5.0	ug/l	SW846 6010C
Chemical Oxygen Demand		17.6 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		15.6	1.7	0.15	mg/l	SM3500FE B-11
Iron, Ferrous [b]		2.3	0.20	0.062	mg/l	SM3500FE B-11
Nitrogen, Total Kjeldahl		0.51 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7830	500	50	mg/l	SM2540 C-11
Sulfate		4130	200	60	mg/l	EPA 300/SW846 9056A
FA12256-1F	**SS17-MW22**					
Manganese		5400	75	5.0	ug/l	SW846 6010C
FA12256-2	**SS17-MW23**					
Benzene		0.88 J	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		2.3	1.0	0.28	ug/l	SW846 8260B
TPH-GRO (C6-C10) [c]		0.0752 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.30	0.24	0.094	mg/l	SW846 8015C
TPH (> C22-C36)		1.16	0.24	0.094	mg/l	SW846 8015C
Iron		29000	1500	85	ug/l	SW846 6010C
Manganese		3160	75	5.0	ug/l	SW846 6010C
Chemical Oxygen Demand		90.6	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		28.9	1.7	0.15	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.062 J	0.20	0.062	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.069 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.7	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7600	1000	100	mg/l	SM2540 C-11
Sulfate		3000	200	60	mg/l	EPA 300/SW846 9056A
FA12256-2F	**SS17-MW23**					
Manganese		2650	75	5.0	ug/l	SW846 6010C

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

Summary of Hits

Job Number: FA12256
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/05/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(c) TPH quantitation based on large individual peak(s), pattern does not appear to be petroleum related.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096265.D	1	02/14/14	WV	n/a	n/a	VB3924
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.52	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	1.3	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.30	1.0	0.28	ug/l	J
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.25	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033287.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.92	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	ND	4.7	0.47	ug/l	
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.94	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.76	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.94	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.68	ug/l	

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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.7	0.94	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.94	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.94	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.72	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.77	ug/l	
110-86-1	Pyridine	ND	9.4	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	97%		39-121%

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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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126522.D	1	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0628	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		70-131%
98-08-8	aaa-Trifluorotoluene	106%		69-143%

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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3872.D	1	02/19/14	MRE	02/11/14	OP50425	GWR101
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.190	0.24	0.094	mg/l	J
	TPH (> C22-C36)	0.289	0.24	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		50-131%

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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	17900	1500	85	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	17300	75	5.0	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11395
(2) Prep QC Batch: MP26797

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:	SS17-MW22		
Lab Sample ID:	FA12256-1	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.0 U	4.0	2.0	mg/l	2	02/06/14 13:50	AC	SM5210 B-11
Chemical Oxygen Demand	17.6 J	20	5.3	mg/l	1	02/07/14 08:30	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/07/14 09:00	LE	SM4500S2- F-11
Iron, Ferric [a]	15.6	1.7	0.15	mg/l	1	02/13/14 08:18	LM	SM3500FE B-11
Iron, Ferrous [b]	2.3	0.20	0.062	mg/l	2	02/06/14 14:20	CH	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	02/12/14 15:13	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	02/06/14 12:50	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.51 J	0.53	0.17	mg/l	1	02/10/14 14:24	AC	EPA 351.2
Solids, Total Dissolved	7830	500	50	mg/l	5	02/11/14 15:00	CH	SM2540 C-11
Sulfate	4130	200	60	mg/l	100	02/06/14 12:50	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22		
Lab Sample ID:	FA12256-1F	**Date Sampled:**	02/05/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5400	75	5.0	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11395
(2) Prep QC Batch: MP26797

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096285.D	1	02/17/14	WV	n/a	n/a	VB3925
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.88	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033288.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.92	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	ND	4.7	0.47	ug/l	
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.94	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.76	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.94	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.68	ug/l	

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.7	0.94	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.94	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.94	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.72	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.77	ug/l	
110-86-1	Pyridine	ND	9.4	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	92%		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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126447.D	1	02/07/14	CP	n/a	n/a	GCD5162
Run #2 [a]	CD126523.D	1	02/12/14	CP	n/a	n/a	GCD5167

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10) [b]	0.0752	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	90%	70-131%
98-08-8	aaa-Trifluorotoluene	103%	100%	69-143%

(a) Confirmation run.
(b) TPH quantitation based on large individual peak(s), pattern does not appear to be petroleum related.

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3873.D	1	02/19/14	MRE	02/11/14	OP50425	GWR101
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.30	0.24	0.094	mg/l	
	TPH (> C22-C36)	1.16	0.24	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		50-131%

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	29000	1500	85	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3160	75	5.0	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11395
(2) Prep QC Batch: MP26797

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:	SS17-MW23		
Lab Sample ID:	FA12256-2	**Date Sampled:**	02/05/14
Matrix:	AQ - Ground Water	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.0 U	4.0	2.0	mg/l	2	02/06/14 13:50	AC	SM5210 B-11
Chemical Oxygen Demand	90.6	20	5.3	mg/l	1	02/07/14 08:30	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/07/14 09:00	LE	SM4500S2- F-11
Iron, Ferric [a]	28.9	1.7	0.15	mg/l	1	02/13/14 08:23	LM	SM3500FE B-11
Iron, Ferrous [b]	0.062 J	0.20	0.062	mg/l	2	02/06/14 14:20	CH	SM3500FE B-11
Nitrogen, Ammonia	0.069 J	0.10	0.030	mg/l	1	02/14/14 14:34	AC	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	02/06/14 13:05	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.7	0.53	0.17	mg/l	1	02/10/14 14:25	AC	EPA 351.2
Solids, Total Dissolved	7600	1000	100	mg/l	10	02/11/14 15:00	CH	SM2540 C-11
Sulfate	3000	200	60	mg/l	100	02/06/14 13:05	AA	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23		
Lab Sample ID:	FA12256-2F	**Date Sampled:**	02/05/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/06/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2650	75	5.0	ug/l	5	02/10/14	02/13/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11395
(2) Prep QC Batch: MP26797

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:

- Chain of Custody

NATIONVIEW

FA12256

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 02052014
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: T Lucero / B Parrish / K Fuller

Sample Analysis Requested (5) / Quality Assurance Samples (6)

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SS17-MW22	SS17-MW22	5-Feb-14	1320	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								1
SS17-MW23	SS17-MW23	5-Feb-14	1155	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								2
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	[1]																	1
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	[1]																	2
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Ringer FX	2/5/2014		1. FX		09:45
2.			2. J. Crane (ALTA)	2.6.14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:

Shipped No.:
Airbill Number: 797827290416 / 797827289846
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

4.1 4

FA12256: Chain of Custody
Page 1 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA12256 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 2-6-14 09:45 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7978 2929 0416

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: 3.0 3.2
- [ ] CORRECTED TEMPS: 2.6 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 C 2-6-14 REVIEWER SIGNATURE/DATE 02/6/14

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA12256: Chain of Custody

Page 2 of 5

Page 1 of 2

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14101312270326

Ship Date: 05FEB14
ActWgt: 40.0 LB
CAD: 100026931/INET3490

Delivery Address Bar Code

Ref # 11-0019.73.010
Invoice # 11-0019.73.010
PO # 11-0019.73.010
Dept # 11-0019.73.010

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

1 of 2

THU - 06 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7978 2729 0416

MASTER

XH TIXA

32811
FL-US
MCO

522G1/582F/F220

4405 VINELAND RD
STE C15
ORLANDO, FL 32811

2 of 2

THU - 06 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 0263 7978 2728 9846

Mstr# 7978 2729 0416 0201

XH TIXA

32811
FL-US
MCO

FA12256: Chain of Custody
Page 3 of 5

VIEW

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02052014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW22	SS17-MW22	5-Feb-14	1320	-	N		WG	18	1	1	1	1	1	1	1	1	1	1								1
SS17-MW23	SS17-MW23	5-Feb-14	1155	-	N		WG	18	1	1	1	1	1	1	1	1	1	1								2
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	1																	1
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	1																	2
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Amy Hymer	2/5/2014		1		
2			2		
3			3		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 797827290416 / 797827289846

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

4.1

4

FA12256: Chain of Custody

Page 4 of 5

NATIONVIEW

FA12256

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 02052014
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: T Lucero / B Parrish / K Fuller

Sample Analysis Requested (5)

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SS17-MW22	SS17-MW22	5-Feb-14	1320	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								1
SS17-MW23	SS17-MW23	5-Feb-14	1155	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								2
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	[1]																	1
TRIP BLANK	Field QC	5-Feb-14		-	TB		AQ	1	[1]																	2
				-																						
				-																						
				-																						
				-																						
				-																						

Quality Assurance Samples (6)

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero (FX)	2/5/2014		1. FX		09:45
2.			2. J. Crosse (ACUTEST)	2.6.14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:

Shipped No.:
Airbill Number: 797827290416 / 797827289846
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

FA12256: Chain of Custody
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Southeast ACCUTEST LABORATORIES

03/19/14

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA12286

Sampling Date: 02/06/14

Report to:

Nation View

Fermin.Esquibel@nationview.net

ATTN: Fermin Esquibel

Total number of pages in report: **56**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program 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), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@149685 15:26 19-Mar-2014

Sample Summary

Nation View

Job No: FA12286

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA12286-1	02/06/14	13:00	LPF	02/07/14	AQ	Ground Water	SS17-MW08
FA12286-1F	02/06/14	13:00	LPF	02/07/14	AQ	Groundwater Filtered	SS17-MW08
FA12286-2	02/06/14	11:45	LPF	02/07/14	AQ	Ground Water	SS17-MW10
FA12286-2F	02/06/14	11:45	LPF	02/07/14	AQ	Groundwater Filtered	SS17-MW10
FA12286-3	02/06/14	10:05	LPF	02/07/14	AQ	Ground Water	SS17-MW11
FA12286-3F	02/06/14	10:05	LPF	02/07/14	AQ	Groundwater Filtered	SS17-MW11
FA12286-4	02/06/14	00:00	LPF	02/07/14	AQ	Trip Blank Water	TRIP BLANK
FA12286-5	02/06/14	00:00	LPF	02/07/14	AQ	Trip Blank Water	TRIP BLANK
FA12286-6	02/06/14	00:00	LPF	02/07/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA12286
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/06/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA12286-1	**SS17-MW08**					
n-Butylbenzene		7.6 J	20	6.0	ug/l	SW846 8260B
sec-Butylbenzene		16.8 J	20	5.4	ug/l	SW846 8260B
Carbon disulfide		5.3 J	40	4.0	ug/l	SW846 8260B
Ethylbenzene		3580	50	14	ug/l	SW846 8260B
Isopropylbenzene		139	20	4.0	ug/l	SW846 8260B
Naphthalene		608	100	20	ug/l	SW846 8260B
n-Propylbenzene		460	20	4.8	ug/l	SW846 8260B
1,2,3-Trichlorobenzene		10.3 J	20	10	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1290	40	4.9	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		362	40	4.0	ug/l	SW846 8260B
Toluene		15.5 J	20	4.0	ug/l	SW846 8260B
m,p-Xylene		4320	100	24	ug/l	SW846 8260B
o-Xylene		17.7 J	20	4.0	ug/l	SW846 8260B
3&4-Methylphenol [a]		13.7 J	19	4.4	ug/l	SW846 8270D
1-Methylnaphthalene [a]		33.7	19	1.9	ug/l	SW846 8270D
2-Methylnaphthalene [a]		22.3	19	2.0	ug/l	SW846 8270D
Naphthalene [a]		199	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)		32.1	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		3.97	2.4	0.95	mg/l	SW846 8015C
Iron		45.5 J	300	17	ug/l	SW846 6010C
Manganese		102	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [b]		10.9	4.0	2.0	mg/l	SM5210 B-11
Chemical Oxygen Demand		309	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		133	1.0	0.50	mg/l	SM4500S2- F-11
Nitrogen, Ammonia		0.11	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.0	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3340	500	50	mg/l	SM2540 C-11
Sulfate		1690	50	15	mg/l	EPA 300/SW846 9056A
FA12286-1F	**SS17-MW08**					
Manganese		115	15	1.0	ug/l	SW846 6010C
FA12286-2	**SS17-MW10**					
Methyl Tert Butyl Ether [c]		1.4	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10) [d]		0.0931 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.110 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.234 J	0.24	0.096	mg/l	SW846 8015C
Iron		2970	300	17	ug/l	SW846 6010C
Manganese		1770	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		96.6	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [e]		2.3	0.40	0.047	mg/l	SM3500FE B-11

Summary of Hits

Job Number: FA12286
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/06/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron, Ferrous [f]		0.69	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.21	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.3	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		8380	1000	100	mg/l	SM2540 C-11
Sulfate		4640	200	60	mg/l	EPA 300/SW846 9056A
FA12286-2F	**SS17-MW10**					
Manganese		1420	15	1.0	ug/l	SW846 6010C
FA12286-3	**SS17-MW11**					
1,2-Dichloroethane		16.7	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		124	2.0	0.40	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.390	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.435	0.24	0.094	mg/l	SW846 8015C
TPH (> C22-C36)		0.457	0.24	0.094	mg/l	SW846 8015C
Iron		3620	300	17	ug/l	SW846 6010C
Manganese		2910	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		96.6	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [e]		2.1	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [f]		1.5	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.31	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7250	1000	100	mg/l	SM2540 C-11
Sulfate		2850	200	60	mg/l	EPA 300/SW846 9056A
FA12286-3F	**SS17-MW11**					
Manganese		2860	15	1.0	ug/l	SW846 6010C

FA12286-4 TRIP BLANK

No hits reported in this sample.

FA12286-5 TRIP BLANK

No hits reported in this sample.

FA12286-6 TRIP BLANK

No hits reported in this sample.

(a) Dilution required due to matrix interference.
(b) Estimated value. Result considered minimum due to low spike recovery.

Summary of Hits

Job Number: FA12286
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/06/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(c) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(d) Sample was not preserved to a pH < 2.
(e) Calculated as: (Iron) - (Iron, Ferrous)
(f) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096295.D	20	02/17/14	WV	n/a	n/a	VB3925
Run #2	B096312.D	50	02/18/14	WV	n/a	n/a	VB3926

	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	500	210	ug/l	
107-02-8	Acrolein	ND	400	130	ug/l	
107-13-1	Acrylonitrile	ND	200	40	ug/l	
71-43-2	Benzene	ND	20	4.9	ug/l	
108-86-1	Bromobenzene	ND	20	6.3	ug/l	
74-97-5	Bromochloromethane	ND	20	7.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	5.2	ug/l	
75-25-2	Bromoform	ND	20	7.7	ug/l	
104-51-8	n-Butylbenzene	7.6	20	6.0	ug/l	J
135-98-8	sec-Butylbenzene	16.8	20	5.4	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	5.7	ug/l	
108-90-7	Chlorobenzene	ND	20	4.8	ug/l	
75-00-3	Chloroethane	ND	40	10	ug/l	
67-66-3	Chloroform	ND	20	6.2	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.5	ug/l	
106-43-4	p-Chlorotoluene	ND	20	5.8	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	20	ug/l	
75-15-0	Carbon disulfide	5.3	40	4.0	ug/l	J
56-23-5	Carbon tetrachloride	ND	20	7.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	5.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	5.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	16	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	4.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.8	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	7.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	6.8	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	6.6	ug/l	
124-48-1	Dibromochloromethane	ND	20	7.2	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	6.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	6.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	4.2	ug/l	

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	20	4.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	5.9	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	4.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	6.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.2	ug/l	
100-41-4	Ethylbenzene	3580 [a]	50	14	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	10	ug/l	
98-82-8	Isopropylbenzene	139	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	4.8	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	100	20	ug/l	
74-83-9	Methyl bromide	ND	40	11	ug/l	
74-87-3	Methyl chloride	ND	40	11	ug/l	
74-95-3	Methylene bromide	ND	40	5.8	ug/l	
75-09-2	Methylene chloride	ND	100	40	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	30	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.0	ug/l	
91-20-3	Naphthalene	608	100	20	ug/l	
103-65-1	n-Propylbenzene	460	20	4.8	ug/l	
100-42-5	Styrene	ND	20	4.7	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	6.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	5.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	6.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	10.3	20	10	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	40	11	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1290	40	4.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	362	40	4.0	ug/l	
127-18-4	Tetrachloroethylene	ND	20	5.1	ug/l	
108-88-3	Toluene	15.5	20	4.0	ug/l	J
79-01-6	Trichloroethylene	ND	20	6.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
75-01-4	Vinyl chloride	ND	20	6.5	ug/l	
108-05-4	Vinyl Acetate	ND	200	40	ug/l	
	m,p-Xylene	4320 [a]	100	24	ug/l	
95-47-6	o-Xylene	17.7	20	4.0	ug/l	J

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	101%	79-125%
2037-26-5	Toluene-D8	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	92%	93%	83-118%

(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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X033289.D	4	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	1070 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	190	37	ug/l	
95-57-8	2-Chlorophenol	ND	19	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	19	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	19	2.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	19	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	93	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	37	7.5	ug/l	
95-48-7	2-Methylphenol	ND	19	1.9	ug/l	
	3&4-Methylphenol	13.7	19	4.4	ug/l	J
88-75-5	2-Nitrophenol	ND	19	2.2	ug/l	
100-02-7	4-Nitrophenol	ND	93	19	ug/l	
87-86-5	Pentachlorophenol	ND	93	19	ug/l	
108-95-2	Phenol	ND	19	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	19	2.1	ug/l	
83-32-9	Acenaphthene	ND	19	1.9	ug/l	
208-96-8	Acenaphthylene	ND	19	1.9	ug/l	
62-53-3	Aniline	ND	19	3.7	ug/l	
120-12-7	Anthracene	ND	19	2.3	ug/l	
92-87-5	Benzidine	ND	93	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.4	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.7	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	3.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	1.9	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	2.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	3.0	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.7	ug/l	
91-58-7	2-Chloronaphthalene	ND	19	2.1	ug/l	
106-47-8	4-Chloroaniline	ND	19	1.9	ug/l	
86-74-8	Carbazole	ND	19	2.3	ug/l	
218-01-9	Chrysene	ND	19	2.7	ug/l	

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	19	2.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	19	2.6	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	19	2.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	19	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	1.9	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	19	1.9	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	19	1.9	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	19	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	2.3	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	3.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	3.0	ug/l	
132-64-9	Dibenzofuran	ND	19	2.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	19	3.7	ug/l	
117-84-0	Di-n-octyl phthalate	ND	19	3.7	ug/l	
84-66-2	Diethyl phthalate	ND	19	3.7	ug/l	
131-11-3	Dimethyl phthalate	ND	19	2.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	5.9	ug/l	
206-44-0	Fluoranthene	ND	19	2.6	ug/l	
86-73-7	Fluorene	ND	19	1.9	ug/l	
118-74-1	Hexachlorobenzene	ND	19	2.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	19	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	19	3.7	ug/l	
67-72-1	Hexachloroethane	ND	19	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.3	ug/l	
78-59-1	Isophorone	ND	19	1.9	ug/l	
90-12-0	1-Methylnaphthalene	33.7	19	1.9	ug/l	
91-57-6	2-Methylnaphthalene	22.3	19	2.0	ug/l	
88-74-4	2-Nitroaniline	ND	19	4.4	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.3	ug/l	
100-01-6	4-Nitroaniline	ND	19	2.8	ug/l	
91-20-3	Naphthalene	199	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	19	1.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	3.7	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	19	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	19	2.0	ug/l	
85-01-8	Phenanthrene	ND	19	2.2	ug/l	
129-00-0	Pyrene	ND	19	3.1	ug/l	
110-86-1	Pyridine	ND	37	7.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	1.9	ug/l	

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

(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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126552.D	50	02/13/14	CP	n/a	n/a	GCD5168
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	32.1	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-131%
98-08-8	aaa-Trifluorotoluene	117%		69-143%

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3878.D	10	02/19/14	MRE	02/11/14	OP50425	GWR101
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)	3.97	2.4	0.95	mg/l	
	TPH (> C22-C36)	ND	2.4	0.95	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		50-131%

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	45.5 J	300	17	ug/l	1	02/12/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	102	15	1.0	ug/l	1	02/12/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26809

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:	SS17-MW08		
Lab Sample ID:	FA12286-1	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	10.9	4.0	2.0	mg/l	2	02/07/14 13:40	KC	SM5210 B-11
Chemical Oxygen Demand	309	20	5.3	mg/l	1	02/12/14 08:25	LE	SM5220 C-11
Hydrogen Sulfide	133	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	0.047 U	0.40	0.047	mg/l	1	02/14/14 20:05	LM	SM3500FE B-11
Iron, Ferrous [c]	0.030 U	0.10	0.030	mg/l	1	02/07/14 15:00	JA	SM3500FE B-11
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	1	02/14/14 14:36	AC	EPA 350.1
Nitrogen, Nitrate [d]	1.3 U	2.5	1.3	mg/l	25	02/07/14 14:19	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.0	0.53	0.17	mg/l	1	02/12/14 12:45	AC	EPA 351.2
Solids, Total Dissolved	3340	500	50	mg/l	5	02/11/14 15:00	CH	SM2540 C-11
Sulfate	1690	50	15	mg/l	25	02/07/14 14:19	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW08		
Lab Sample ID:	FA12286-1F	**Date Sampled:**	02/06/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	115	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B096296.D	1	02/17/14	WV	n/a	n/a	VB3925
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033290.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	52	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.53	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	0.52	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	0.59	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	0.52	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	5.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.2	0.52	ug/l	
	3&4-Methylphenol	ND	5.2	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	0.62	ug/l	
100-02-7	4-Nitrophenol	ND	26	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	26	5.2	ug/l	
108-95-2	Phenol	ND	5.2	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	0.57	ug/l	
83-32-9	Acenaphthene	ND	5.2	0.52	ug/l	
208-96-8	Acenaphthylene	ND	5.2	0.52	ug/l	
62-53-3	Aniline	ND	5.2	1.0	ug/l	
120-12-7	Anthracene	ND	5.2	0.64	ug/l	
92-87-5	Benzidine	ND	26	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	0.66	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	0.67	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	0.74	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	0.83	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	0.53	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.69	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.57	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	0.52	ug/l	
86-74-8	Carbazole	ND	5.2	0.64	ug/l	
218-01-9	Chrysene	ND	5.2	0.74	ug/l	

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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.57	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.71	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.60	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.52	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.70	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.52	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.52	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	0.59	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.93	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	0.84	ug/l	
132-64-9	Dibenzofuran	ND	5.2	0.55	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.65	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	1.6	ug/l	
206-44-0	Fluoranthene	ND	5.2	0.72	ug/l	
86-73-7	Fluorene	ND	5.2	0.52	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.2	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.52	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	0.65	ug/l	
78-59-1	Isophorone	ND	5.2	0.52	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.2	0.52	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	0.63	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	0.78	ug/l	
91-20-3	Naphthalene	ND	5.2	0.52	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.52	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.55	ug/l	
85-01-8	Phenanthrene	ND	5.2	0.61	ug/l	
129-00-0	Pyrene	ND	5.2	0.84	ug/l	
110-86-1	Pyridine	ND	10	2.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.52	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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	97%		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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD126530.D	1	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0931	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		70-131%
98-08-8	aaa-Trifluorotoluene	92%		69-143%

(a) Sample was not preserved to a pH < 2.

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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3900.D	1	02/20/14	SJL	02/11/14	OP50425	GWR102
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)	0.110	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.234	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		50-131%

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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2970	300	17	ug/l	1	02/12/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1770	15	1.0	ug/l	1	02/12/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26809

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:	SS17-MW10		
Lab Sample ID:	FA12286-2	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	2.0 U	4.0	2.0	mg/l	2	02/07/14 13:40	KC	SM5210 B-11
Chemical Oxygen Demand	96.6	20	5.3	mg/l	1	02/12/14 08:25	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	2.3	0.40	0.047	mg/l	1	02/14/14 20:10	LM	SM3500FE B-11
Iron, Ferrous [c]	0.69	0.10	0.030	mg/l	1	02/07/14 15:00	JA	SM3500FE B-11
Nitrogen, Ammonia	0.21	0.10	0.030	mg/l	1	02/14/14 14:35	AC	EPA 350.1
Nitrogen, Nitrate [d]	5.0 U	10	5.0	mg/l	100	02/07/14 14:35	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	02/12/14 12:46	AC	EPA 351.2
Solids, Total Dissolved	8380	1000	100	mg/l	10	02/11/14 15:00	CH	SM2540 C-11
Sulfate	4640	200	60	mg/l	100	02/07/14 14:35	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW10		
Lab Sample ID:	FA12286-2F	**Date Sampled:**	02/06/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	1420	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096297.D	1	02/17/14	WV	n/a	n/a	VB3925
Run #2	B096313.D	2	02/18/14	WV	n/a	n/a	VB3926

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	16.7	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	124 [a]	2.0	0.40	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	101%	79-125%
2037-26-5	Toluene-D8	94%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	95%	83-118%

(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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033291.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	1070 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.3	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.3	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	23	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	23	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.91	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	ND	4.7	0.47	ug/l	
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.93	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	23	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.60	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.61	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.75	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.76	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.93	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.67	ug/l	

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Report of Analysis

Client Sample ID:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.51	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.64	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.63	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.53	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.84	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.76	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.7	0.93	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.93	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.93	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.65	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.93	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.71	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.93	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.76	ug/l	
110-86-1	Pyridine	ND	9.3	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	87%		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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126531.D	1	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.390	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-131%
98-08-8	aaa-Trifluorotoluene	111%		69-143%

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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3901.D	1	02/20/14	SJL	02/11/14	OP50425	GWR102
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.435	0.24	0.094	mg/l	
	TPH (> C22-C36)	0.457	0.24	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		50-131%

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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3620	300	17	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2910	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW11		
Lab Sample ID:	FA12286-3	**Date Sampled:**	02/06/14
Matrix:	AQ - Ground Water	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	2.0 U	4.0	2.0	mg/l	2	02/07/14 13:40	KC	SM5210 B-11
Chemical Oxygen Demand	96.6	20	5.3	mg/l	1	02/12/14 08:25	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	2.1	0.40	0.047	mg/l	1	02/14/14 17:38	LM	SM3500FE B-11
Iron, Ferrous [c]	1.5	0.10	0.030	mg/l	1	02/07/14 15:00	JA	SM3500FE B-11
Nitrogen, Ammonia	0.31	0.10	0.030	mg/l	1	02/14/14 14:33	AC	EPA 350.1
Nitrogen, Nitrate [d]	5.0 U	10	5.0	mg/l	100	02/07/14 14:51	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	02/12/14 12:47	AC	EPA 351.2
Solids, Total Dissolved	7250	1000	100	mg/l	10	02/11/14 15:00	CH	SM2540 C-11
Sulfate	2850	200	60	mg/l	100	02/07/14 14:51	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW11		
Lab Sample ID:	FA12286-3F	**Date Sampled:**	02/06/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/07/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2860	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	FA12286-4	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096298.D	1	02/17/14	WV	n/a	n/a	VB3925
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12286-4	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	FA12286-4	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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:	FA12286-5	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096299.D	1	02/17/14	WV	n/a	n/a	VB3925
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12286-5	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	FA12286-5	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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:	FA12286-6	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B096300.D	1	02/17/14	WV	n/a	n/a	VB3925
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12286-6	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	FA12286-6	**Date Sampled:**	02/06/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA12286

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02062014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW08	SS17-MW22	6-Feb-14	1300	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							1	1
SS17-MW10	SS17-MW23	6-Feb-14	1145	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	2
SS17-MW11	SS17-MW23	6-Feb-14	1005	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							3	3
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[1]																4	1
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[1]																5	2
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[1]																6	3
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	2/6/2014		1. FE		
2. FE	02-07-14	1015	2. [signature]	12-07-14	1015
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No.:

Airbill Number: 797839874497

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

1.6.1.8.1.8

3

4.1

4

FA12286: Chain of Custody

Page 1 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA12286 CLIENT: Nathan View PROJECT: SS-17

DATE/TIME RECEIVED: 02.07.14 1015 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7978 3987 4670 / 4692 / 4497

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: 2.0 2.2 2.2
- [ ] CORRECTED TEMPS: 1.6, 1.8, 1.8

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
- [X] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] 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: Sample #6 Received 1 Broken Trip Blank. Sample #3 1 vial 8260 has Macro Bubbles

TECHNICIAN SIGNATURE/DATE RW 020714 REVIEWER SIGNATURE/DATE JC 2-7-14

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA12286: Chain of Custody

Page 2 of 6

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14101312270326

Ship Date: 06FEB14
ActWgt: 40.0 LB
CAD: 100026931/INET3490

Delivery Address Bar Code

Ref # 11-0019.73.010
Invoice # 11-0019.73.010
PO # 11-0019.73.010
Dept # 11-0019.73.010

SHIP TO: (407) 425-6780
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

1 of 3

TRK# 0201 7978 3987 4670

MASTER

XH TIXA

FRI - 07 FEB 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

522G1/562F/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Job Change Order: FA12286_2/7/2014

Requested Date:	2/7/2014	**Received Date:**	2/7/2014
Account Name:	Nation View	**Due Date:**	2/21/2014
Project	Holloman AFB; SS17	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	14

Sample #:
FA12286-1.1F

Change: Client has requested this sample be reported separately.
Thank you.

Above Changes Per: client, Tony Lucero, via e-mail **Date:** 2/7/2014

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Page 1 of 1

VIEW

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02062014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW08	SS17-MW08	6-Feb-14	1300	-	N		WG	18	3	3	3	3	3	3	3	3	3	3								1
SS17-MW10	SS17-MW10	6-Feb-14	1145	-	N		WG	18	3	3	3	3	3	3	3	3	3	3								2
SS17-MW11	SS17-MW11	6-Feb-14	1005	-	N		WG	18	3	3	3	3	3	3	3	3	3	3								3
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	2																	1
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	2																	2
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	2																	3
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	2/6/2014		1.		
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Shipped No:

Airbill Number: 797839874670

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

4.1

4

FA12286: Chain of Custody

Page 5 of 6

NATION VIEW

FA12286

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02062014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

Sample Analysis Requested (5) / Quality Assurance Samples (6)

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SS17-MW08	SS17-MW22	6-Feb-14	1300	-	N		WG	18	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]							1	1
SS17-MW10	SS17-MW23	6-Feb-14	1145	-	N		WG	18	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]							2	2
SS17-MW11	SS17-MW23	6-Feb-14	1005	-	N		WG	18	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]	[x]							3	3
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[x]																4	1
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[x]																5	2
TRIP BLANK	Field QC	6-Feb-14		-	TB		AQ	1	[x]																6	3
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

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1.	2/6/2014		1. FE		
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3.			3.		

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Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 797839874497

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)

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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

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1.6.1.8.1.8

3

4.1

4

FA12286: Chain of Custody

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Southeast ACCUTEST LABORATORIES

03/19/14

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA12333

Sampling Date: 02/07/14

Report to:

Nation View

Fermin.Esquibel@nationview.net

ATTN: Fermin Esquibel

Total number of pages in report: **71**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program 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), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

Nation View

Job No: FA12333

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA12333-1	02/07/14	09:10	LPF	02/08/14	AQ	Ground Water	SS17-MW07
FA12333-1F	02/07/14	09:10	LPF	02/08/14	AQ	Groundwater Filtered	SS17-MW07
FA12333-2	02/07/14	12:20	LPF	02/08/14	AQ	Ground Water	SS17-MW21
FA12333-2F	02/07/14	12:20	LPF	02/08/14	AQ	Groundwater Filtered	SS17-MW21
FA12333-3	02/07/14	00:00	LPF	02/08/14	AQ	Trip Blank Water	TRIP BLANK
FA12333-4	02/07/14	00:00	LPF	02/08/14	AQ	Trip Blank Water	TRIP BLANK
FA12333-5	02/07/14	10:40	LPF	02/08/14	AQ	Ground Water	SS17-MW05
FA12333-5F	02/07/14	10:40	LPF	02/08/14	AQ	Groundwater Filtered	SS17-MW05
FA12333-6	02/07/14	10:40	LPF	02/08/14	AQ	Ground Water	SS17-MW05A
FA12333-6F	02/07/14	10:40	LPF	02/08/14	AQ	Groundwater Filtered	SS17-MW05A
FA12333-7	02/07/14	00:00	LPF	02/08/14	AQ	Trip Blank Water	TRIP BLANK
FA12333-8	02/07/14	00:00	LPF	02/08/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA12333
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA12333-1	**SS17-MW07**					
sec-Butylbenzene		3.5	1.0	0.27	ug/l	SW846 8260B
tert-Butylbenzene		0.34 J	1.0	0.29	ug/l	SW846 8260B
Naphthalene		1.1 J	5.0	1.0	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.427	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.724	0.24	0.094	mg/l	SW846 8015C
TPH (> C22-C36)		0.121 J	0.24	0.094	mg/l	SW846 8015C
Iron		295 J	300	17	ug/l	SW846 6010C
Manganese		529	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [a]		3.0 J	4.0	4.0	mg/l	SM5210 B-11
Chemical Oxygen Demand		7.4 J	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		2.6	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		0.28	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.086 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [c]		0.74 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		1.1	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2500	200	20	mg/l	SM2540 C-11
Sulfate		1540	50	15	mg/l	EPA 300/SW846 9056A
FA12333-1F	**SS17-MW07**					
Manganese		501	15	1.0	ug/l	SW846 6010C
FA12333-2	**SS17-MW21**					
Benzene [d]		53600	1000	240	ug/l	SW846 8260B
Ethylbenzene [d]		6700	200	56	ug/l	SW846 8260B
Isopropylbenzene [d]		148 J	200	40	ug/l	SW846 8260B
Methylene chloride [e]		851 J	1000	400	ug/l	SW846 8260B
Naphthalene [d]		338 J	1000	200	ug/l	SW846 8260B
n-Propylbenzene [d]		574	200	48	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [d]		3140	400	49	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [d]		914	400	40	ug/l	SW846 8260B
Toluene [d]		53100	1000	200	ug/l	SW846 8260B
m,p-Xylene [d]		17900	400	96	ug/l	SW846 8260B
o-Xylene [d]		8450	200	40	ug/l	SW846 8260B
2,4-Dimethylphenol		13.9 J	47	4.7	ug/l	SW846 8270D
3&4-Methylphenol		517	47	11	ug/l	SW846 8270D
Phenol		271	47	4.7	ug/l	SW846 8270D
1-Methylnaphthalene		24.0 J	47	4.7	ug/l	SW846 8270D
2-Methylnaphthalene		41.9 J	47	5.0	ug/l	SW846 8270D
Naphthalene		274	47	4.7	ug/l	SW846 8270D
TPH-GRO (C6-C10) [f]		267	50	25	mg/l	SW846 8015C
TPH (C10-C22)		6.38	2.4	0.96	mg/l	SW846 8015C

Summary of Hits

Job Number: FA12333
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/07/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		386	300	17	ug/l	SW846 6010C
Manganese		62.2	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [a]		364	120	120	mg/l	SM5210 B-11
Chemical Oxygen Demand		502	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		147	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [g]		0.16 J	0.50	0.079	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.23	0.20	0.062	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.43	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.6	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3510	200	20	mg/l	SM2540 C-11
Sulfate		1650	50	15	mg/l	EPA 300/SW846 9056A
FA12333-2F	**SS17-MW21**					
Manganese		65.5	15	1.0	ug/l	SW846 6010C
FA12333-3	**TRIP BLANK**					
No hits reported in this sample.						
FA12333-4	**TRIP BLANK**					
No hits reported in this sample.						
FA12333-5	**SS17-MW05**					
Benzene		11.9 J	20	4.9	ug/l	SW846 8260B
n-Butylbenzene		13.1 J	20	6.0	ug/l	SW846 8260B
sec-Butylbenzene		12.5 J	20	5.4	ug/l	SW846 8260B
Carbon disulfide		4.7 J	40	4.0	ug/l	SW846 8260B
Ethylbenzene		3130	50	14	ug/l	SW846 8260B
Isopropylbenzene		86.6	20	4.0	ug/l	SW846 8260B
Naphthalene		504	100	20	ug/l	SW846 8260B
n-Propylbenzene		260	20	4.8	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		155	40	4.9	ug/l	SW846 8260B
Toluene		25.8	20	4.0	ug/l	SW846 8260B
m,p-Xylene		417	40	9.6	ug/l	SW846 8260B
o-Xylene		8.6 J	20	4.0	ug/l	SW846 8260B
Acenaphthene		1.0 J	4.7	0.47	ug/l	SW846 8270D
Dibenzofuran		0.84 J	4.7	0.50	ug/l	SW846 8270D
Fluorene		0.96 J	4.7	0.47	ug/l	SW846 8270D
1-Methylnaphthalene		55.6	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene		31.3	4.7	0.50	ug/l	SW846 8270D
Naphthalene		228	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)		9.30	1.0	0.50	mg/l	SW846 8015C

Summary of Hits

Job Number: FA12333
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/07/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
TPH (C10-C22)	2.92	0.96	0.38	mg/l	SW846 8015C
Iron	972	300	17	ug/l	SW846 6010C
Manganese	216	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [a]	90.8	40	40	mg/l	SM5210 B-11
Chemical Oxygen Demand	141	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	55.0	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [g]	0.20 J	0.80	0.17	mg/l	SM3500FE B-11
Iron, Ferrous [b]	0.77	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.39	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3230	200	20	mg/l	SM2540 C-11
Sulfate	1860	50	15	mg/l	EPA 300/SW846 9056A
FA12333-5F SS17-MW05					
Manganese	191	15	1.0	ug/l	SW846 6010C
FA12333-6 SS17-MW05A					
Benzene	0.79 J	1.0	0.24	ug/l	SW846 8260B
n-Butylbenzene	12.3	1.0	0.30	ug/l	SW846 8260B
sec-Butylbenzene	12.1	1.0	0.27	ug/l	SW846 8260B
Carbon disulfide	1.9 J	2.0	0.20	ug/l	SW846 8260B
Ethylbenzene [h]	1950	50	14	ug/l	SW846 8260B
Isopropylbenzene	85.7	1.0	0.20	ug/l	SW846 8260B
p-Isopropyltoluene	1.6	1.0	0.24	ug/l	SW846 8260B
Naphthalene	322	50	10	ug/l	SW846 8260B
n-Propylbenzene	222	10	2.4	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	99.7	20	2.4	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	1.3 J	2.0	0.20	ug/l	SW846 8260B
Toluene	3.2	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene	330	20	4.8	ug/l	SW846 8260B
o-Xylene	3.5	1.0	0.20	ug/l	SW846 8260B
Acenaphthene	1.2 J	4.7	0.47	ug/l	SW846 8270D
2,6-Dinitrotoluene	0.63 J	4.7	0.59	ug/l	SW846 8270D
Dibenzofuran	0.84 J	4.7	0.50	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate	2.5 J	4.7	1.5	ug/l	SW846 8270D
Fluorene	0.72 J	4.7	0.47	ug/l	SW846 8270D
1-Methylnaphthalene	65.2	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	38.1	4.7	0.50	ug/l	SW846 8270D
Naphthalene	296	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)	0.359	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	3.83	0.96	0.38	mg/l	SW846 8015C
TPH (> C22-C36)	0.447 J	0.96	0.38	mg/l	SW846 8015C
Iron	900	300	17	ug/l	SW846 6010C

Summary of Hits

Job Number: FA12333
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Manganese		183	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [a]		83.4	40	40	mg/l	SM5210 B-11
Chemical Oxygen Demand		136	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		65.8	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		1.3	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.46	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.8	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3180	200	20	mg/l	SM2540 C-11
Sulfate		1870	50	15	mg/l	EPA 300/SW846 9056A
FA12333-6F	**SS17-MW05A**					
Manganese		163	15	1.0	ug/l	SW846 6010C
FA12333-7	**TRIP BLANK**					
m,p-Xylene [h]		0.53 J	2.0	0.48	ug/l	SW846 8260B
FA12333-8	**TRIP BLANK**					

No hits reported in this sample.

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required due to matrix interference.
(d) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(e) Sample was not preserved to a pH < 2; reported results are considered minimum values. Suspected laboratory contaminant.
(f) Sample was not preserved to a pH < 2.
(g) Calculated as: (Iron) - (Iron, Ferrous)
(h) Sample vial(s) contained significant headspace; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I18216.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2	B096352.D	1	02/19/14	WV	n/a	n/a	VB3927

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	3.5	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	0.34	1.0	0.29	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND [a]	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	1.1	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	105%	79-125%
2037-26-5	Toluene-D8	99%	93%	85-112%
460-00-4	4-Bromofluorobenzene	97%	103%	83-118%

(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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033295.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.92	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	ND	4.7	0.47	ug/l	
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.94	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.76	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.94	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.68	ug/l	

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Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.7	0.94	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.94	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.94	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.72	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.77	ug/l	
110-86-1	Pyridine	ND	9.4	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	95%		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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126541.D	1	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.427	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		70-131%
98-08-8	aaa-Trifluorotoluene	113%		69-143%

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3902.D	1	02/20/14	SJL	02/11/14	OP50425	GWR102
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.724	0.24	0.094	mg/l	
	TPH (> C22-C36)	0.121	0.24	0.094	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	295 J	300	17	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	529	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW07		
Lab Sample ID:	FA12333-1	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	3.0 J	4.0	4.0	mg/l	1	02/08/14 09:45	AA	SM5210 B-11
Chemical Oxygen Demand	7.4 J	20	5.3	mg/l	1	02/11/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	2.6	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	0.047 U	0.40	0.047	mg/l	1	02/14/14 18:06	LM	SM3500FE B-11
Iron, Ferrous [c]	0.28	0.10	0.030	mg/l	1	02/08/14 13:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.086 J	0.10	0.030	mg/l	1	02/14/14 14:37	AC	EPA 350.1
Nitrogen, Nitrate [d]	0.74 J	1.0	0.50	mg/l	10	02/08/14 13:02	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.1	0.53	0.17	mg/l	1	02/12/14 12:34	AC	EPA 351.2
Solids, Total Dissolved	2500	200	20	mg/l	2	02/13/14 14:35	CH	SM2540 C-11
Sulfate	1540	50	15	mg/l	25	02/11/14 15:55	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW07		
Lab Sample ID:	FA12333-1F	**Date Sampled:**	02/07/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	501	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B096347.D	200	02/19/14	WV	n/a	n/a	VB3927
Run #2 [a]	I18312.D	1000	02/21/14	WV	n/a	n/a	VI308

	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 [b]	ND	5000	2100	ug/l	
107-02-8	Acrolein [b]	ND	4000	1300	ug/l	
107-13-1	Acrylonitrile	ND	2000	400	ug/l	
71-43-2	Benzene	53600 [c]	1000	240	ug/l	
108-86-1	Bromobenzene	ND	200	63	ug/l	
74-97-5	Bromochloromethane	ND	200	75	ug/l	
75-27-4	Bromodichloromethane	ND	200	52	ug/l	
75-25-2	Bromoform	ND	200	77	ug/l	
104-51-8	n-Butylbenzene	ND	200	60	ug/l	
135-98-8	sec-Butylbenzene	ND	200	54	ug/l	
98-06-6	tert-Butylbenzene	ND	200	57	ug/l	
108-90-7	Chlorobenzene	ND	200	48	ug/l	
75-00-3	Chloroethane	ND	400	100	ug/l	
67-66-3	Chloroform	ND	200	62	ug/l	
95-49-8	o-Chlorotoluene	ND	200	45	ug/l	
106-43-4	p-Chlorotoluene	ND	200	58	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1000	200	ug/l	
75-15-0	Carbon disulfide	ND	400	40	ug/l	
56-23-5	Carbon tetrachloride	ND	200	79	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	51	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	51	ug/l	
563-58-6	1,1-Dichloropropene	ND	200	56	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	160	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	48	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	48	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	71	ug/l	
142-28-9	1,3-Dichloropropane	ND	200	68	ug/l	
594-20-7	2,2-Dichloropropane	ND	200	66	ug/l	
124-48-1	Dibromochloromethane	ND	200	72	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	66	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	200	65	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	42	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	200	40	ug/l	
95-50-1	o-Dichlorobenzene	ND	200	59	ug/l	
106-46-7	p-Dichlorobenzene	ND	200	40	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	200	69	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	42	ug/l	
100-41-4	Ethylbenzene	6700	200	56	ug/l	
591-78-6	2-Hexanone [b]	ND	2000	400	ug/l	
87-68-3	Hexachlorobutadiene	ND	400	100	ug/l	
98-82-8	Isopropylbenzene	148	200	40	ug/l	J
99-87-6	p-Isopropyltoluene	ND	200	48	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	1000	200	ug/l	
74-83-9	Methyl bromide	ND	400	110	ug/l	
74-87-3	Methyl chloride	ND	400	110	ug/l	
74-95-3	Methylene bromide	ND	400	58	ug/l	
75-09-2	Methylene chloride [d]	851	1000	400	ug/l	J
78-93-3	Methyl ethyl ketone	ND	1000	300	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	40	ug/l	
91-20-3	Naphthalene	338	1000	200	ug/l	J
103-65-1	n-Propylbenzene	574	200	48	ug/l	
100-42-5	Styrene	ND	200	47	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	200	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	67	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	55	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	63	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	400	110	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	3140	400	49	ug/l	
108-67-8	1,3,5-Trimethylbenzene	914	400	40	ug/l	
127-18-4	Tetrachloroethylene	ND	200	51	ug/l	
108-88-3	Toluene	53100 [c]	1000	200	ug/l	
79-01-6	Trichloroethylene	ND	200	60	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	100	ug/l	
75-01-4	Vinyl chloride	ND	200	65	ug/l	
108-05-4	Vinyl Acetate	ND	2000	400	ug/l	
	m,p-Xylene	17900	400	96	ug/l	
95-47-6	o-Xylene	8450	200	40	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	79-125%
2037-26-5	Toluene-D8	97%	99%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) Compound outside of control limits in CCV.
(c) Result is from Run# 2
(d) Suspected laboratory contaminant.

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033354.D	10	02/20/14	FS	02/10/14	OP50415	SX1571
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	470	94	ug/l	
95-57-8	2-Chlorophenol	ND	47	4.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	47	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	47	5.4	ug/l	
105-67-9	2,4-Dimethylphenol	13.9	47	4.7	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	240	51	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	94	19	ug/l	
95-48-7	2-Methylphenol	ND	47	4.7	ug/l	
	3&4-Methylphenol	517	47	11	ug/l	
88-75-5	2-Nitrophenol	ND	47	5.6	ug/l	
100-02-7	4-Nitrophenol	ND	240	47	ug/l	
87-86-5	Pentachlorophenol	ND	240	47	ug/l	
108-95-2	Phenol	271	47	4.7	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	47	9.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	47	5.2	ug/l	
83-32-9	Acenaphthene	ND	47	4.7	ug/l	
208-96-8	Acenaphthylene	ND	47	4.7	ug/l	
62-53-3	Aniline	ND	47	9.4	ug/l	
120-12-7	Anthracene	ND	47	5.8	ug/l	
92-87-5	Benzidine	ND	240	47	ug/l	
56-55-3	Benzo(a)anthracene	ND	47	6.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	47	6.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	47	6.7	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	47	7.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	47	4.8	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	47	6.3	ug/l	
85-68-7	Butyl benzyl phthalate	ND	47	7.7	ug/l	
100-51-6	Benzyl Alcohol	ND	47	9.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	47	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	47	4.7	ug/l	
86-74-8	Carbazole	ND	47	5.8	ug/l	
218-01-9	Chrysene	ND	47	6.8	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	47	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	47	6.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	47	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	47	5.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	47	4.7	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	47	6.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	47	4.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	47	4.7	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	47	5.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	47	5.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	47	8.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	47	7.7	ug/l	
132-64-9	Dibenzofuran	ND	47	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	47	9.4	ug/l	
117-84-0	Di-n-octyl phthalate	ND	47	9.4	ug/l	
84-66-2	Diethyl phthalate	ND	47	9.4	ug/l	
131-11-3	Dimethyl phthalate	ND	47	5.9	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	47	15	ug/l	
206-44-0	Fluoranthene	ND	47	6.6	ug/l	
86-73-7	Fluorene	ND	47	4.7	ug/l	
118-74-1	Hexachlorobenzene	ND	47	6.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	47	4.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	47	9.4	ug/l	
67-72-1	Hexachloroethane	ND	47	4.7	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	47	5.9	ug/l	
78-59-1	Isophorone	ND	47	4.7	ug/l	
90-12-0	1-Methylnaphthalene	24.0	47	4.7	ug/l	J
91-57-6	2-Methylnaphthalene	41.9	47	5.0	ug/l	J
88-74-4	2-Nitroaniline	ND	47	11	ug/l	
99-09-2	3-Nitroaniline	ND	47	5.7	ug/l	
100-01-6	4-Nitroaniline	ND	47	7.2	ug/l	
91-20-3	Naphthalene	274	47	4.7	ug/l	
98-95-3	Nitrobenzene	ND	47	4.7	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	47	9.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	47	4.7	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	47	5.0	ug/l	
85-01-8	Phenanthrene	ND	47	5.6	ug/l	
129-00-0	Pyrene	ND	47	7.7	ug/l	
110-86-1	Pyridine	ND	94	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	47	4.7	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	76%		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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD126556.D	500	02/13/14	CP	n/a	n/a	GCD5168
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	267	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-131%
98-08-8	aaa-Trifluorotoluene	97%		69-143%

(a) Sample was not preserved to a pH < 2.

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3882.D	10	02/19/14	MRE	02/11/14	OP50425	GWR101
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)	6.38	2.4	0.96	mg/l	
	TPH (> C22-C36)	ND	2.4	0.96	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		50-131%

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	386	300	17	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	62.2	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW21		
Lab Sample ID:	FA12333-2	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	364	120	120	mg/l	1	02/08/14 09:45	AA	SM5210 B-11
Chemical Oxygen Demand	502	20	5.3	mg/l	1	02/12/14 08:25	LE	SM5220 C-11
Hydrogen Sulfide	147	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	0.16 J	0.50	0.079	mg/l	1	02/14/14 18:11	LM	SM3500FE B-11
Iron, Ferrous [c]	0.23	0.20	0.062	mg/l	2	02/08/14 13:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.43	0.10	0.030	mg/l	1	02/14/14 14:38	AC	EPA 350.1
Nitrogen, Nitrate [d]	0.50 U	1.0	0.50	mg/l	10	02/08/14 13:18	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.6	0.53	0.17	mg/l	1	02/12/14 12:35	AC	EPA 351.2
Solids, Total Dissolved	3510	200	20	mg/l	2	02/13/14 14:35	CH	SM2540 C-11
Sulfate	1650	50	15	mg/l	25	02/11/14 16:11	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW21		
Lab Sample ID:	FA12333-2F	**Date Sampled:**	02/07/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	65.5	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	FA12333-3	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I18218.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2 [a]	B096343.D	1	02/19/14	WV	n/a	n/a	VB3927

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND [b]	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND [b]	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12333-3	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND [b]	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND [b]	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND [b]	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [b]	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [b]	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND [b]	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND [b]	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND [b]	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:	FA12333-3	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	79-125%
2037-26-5	Toluene-D8	101%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	102%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Result is from Run# 2

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:	TRIP BLANK		
Lab Sample ID:	FA12333-4	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I18219.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2 [a]	B096344.D	1	02/19/14	WV	n/a	n/a	VB3927

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND [b]	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND [b]	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	FA12333-4	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND [b]	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [b]	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND [b]	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND [b]	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND [b]	1.0	0.20	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12333-4	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	105%	79-125%
2037-26-5	Toluene-D8	99%	95%	85-112%
460-00-4	4-Bromofluorobenzene	101%	103%	83-118%

(a) Sample vial(s) contained significant headspace; 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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I18220.D	20	02/18/14	WV	n/a	n/a	VI304
Run #2	B096348.D	50	02/19/14	WV	n/a	n/a	VB3927

	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	500	210	ug/l	
107-02-8	Acrolein	ND	400	130	ug/l	
107-13-1	Acrylonitrile	ND	200	40	ug/l	
71-43-2	Benzene	11.9	20	4.9	ug/l	J
108-86-1	Bromobenzene	ND	20	6.3	ug/l	
74-97-5	Bromochloromethane	ND	20	7.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	5.2	ug/l	
75-25-2	Bromoform	ND	20	7.7	ug/l	
104-51-8	n-Butylbenzene	13.1	20	6.0	ug/l	J
135-98-8	sec-Butylbenzene	12.5	20	5.4	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	5.7	ug/l	
108-90-7	Chlorobenzene	ND	20	4.8	ug/l	
75-00-3	Chloroethane	ND	40	10	ug/l	
67-66-3	Chloroform	ND	20	6.2	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.5	ug/l	
106-43-4	p-Chlorotoluene	ND	20	5.8	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	20	ug/l	
75-15-0	Carbon disulfide	4.7	40	4.0	ug/l	J
56-23-5	Carbon tetrachloride	ND	20	7.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	5.1	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	5.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	16	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	4.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.8	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	7.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	6.8	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	6.6	ug/l	
124-48-1	Dibromochloromethane	ND	20	7.2	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	6.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	6.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	4.2	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	20	4.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	5.9	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	4.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	6.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.2	ug/l	
100-41-4	Ethylbenzene	3130 [a]	50	14	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	10	ug/l	
98-82-8	Isopropylbenzene	86.6	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	4.8	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	100	20	ug/l	
74-83-9	Methyl bromide	ND	40	11	ug/l	
74-87-3	Methyl chloride	ND	40	11	ug/l	
74-95-3	Methylene bromide	ND	40	5.8	ug/l	
75-09-2	Methylene chloride	ND	100	40	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	30	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.0	ug/l	
91-20-3	Naphthalene	504	100	20	ug/l	
103-65-1	n-Propylbenzene	260	20	4.8	ug/l	
100-42-5	Styrene	ND	20	4.7	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	6.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	5.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	6.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	11	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	155	40	4.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.0	ug/l	
127-18-4	Tetrachloroethylene	ND	20	5.1	ug/l	
108-88-3	Toluene	25.8	20	4.0	ug/l	
79-01-6	Trichloroethylene	ND	20	6.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
75-01-4	Vinyl chloride	ND	20	6.5	ug/l	
108-05-4	Vinyl Acetate	ND	200	40	ug/l	
	m,p-Xylene	417	40	9.6	ug/l	
95-47-6	o-Xylene	8.6	20	4.0	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	105%	79-125%
2037-26-5	Toluene-D8	96%	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	98%	83-118%

(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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033299.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2	X033355.D	4	02/20/14	FS	02/10/14	OP50415	SX1571

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.92	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	1.0	4.7	0.47	ug/l	J
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.94	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.76	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.94	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.68	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.59	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.77	ug/l	
132-64-9	Dibenzofuran	0.84	4.7	0.50	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	4.7	0.94	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.94	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.94	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	0.96	4.7	0.47	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	55.6	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	31.3	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.72	ug/l	
91-20-3	Naphthalene	228 [a]	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.77	ug/l	
110-86-1	Pyridine	ND	9.4	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%	33%	14-67%
4165-62-2	Phenol-d5	21%	21%	10-50%
118-79-6	2,4,6-Tribromophenol	93%	79%	33-118%
4165-60-0	Nitrobenzene-d5	62%	62%	42-108%
321-60-8	2-Fluorobiphenyl	68%	68%	40-106%
1718-51-0	Terphenyl-d14	96%	88%	39-121%

(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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126543.D	10	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	9.30	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-131%
98-08-8	aaa-Trifluorotoluene	109%		69-143%

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3903.D	4	02/20/14	SJL	02/11/14	OP50425	GWR102
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)	2.92	0.96	0.38	mg/l	
	TPH (> C22-C36)	ND	0.96	0.38	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		50-131%

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	972	300	17	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	216	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW05		
Lab Sample ID:	FA12333-5	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	90.8	40	40	mg/l	1	02/08/14 09:45	AA	SM5210 B-11
Chemical Oxygen Demand	141	20	5.3	mg/l	1	02/11/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	55.0	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	0.20 J	0.80	0.17	mg/l	1	02/14/14 18:16	LM	SM3500FE B-11
Iron, Ferrous [c]	0.77	0.50	0.16	mg/l	5	02/08/14 13:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.39	0.10	0.030	mg/l	1	02/14/14 14:42	AC	EPA 350.1
Nitrogen, Nitrate [d]	0.50 U	1.0	0.50	mg/l	10	02/08/14 13:33	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	02/12/14 12:36	AC	EPA 351.2
Solids, Total Dissolved	3230	200	20	mg/l	2	02/13/14 14:35	CH	SM2540 C-11
Sulfate	1860	50	15	mg/l	25	02/11/14 16:27	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW05		
Lab Sample ID:	FA12333-5F	**Date Sampled:**	02/07/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	191	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I18221.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2	B096349.D	10	02/19/14	WV	n/a	n/a	VB3927
Run #3 [a]	I18313.D	50	02/21/14	WV	n/a	n/a	VI308

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.79	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	12.3	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	12.1	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	1.9	2.0	0.20	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1950 [b]	50	14	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	85.7	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	1.6	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	322 [c]	50	10	ug/l	
103-65-1	n-Propylbenzene	222 [c]	10	2.4	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	99.7 [c]	20	2.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.3	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	3.2	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	330 [c]	20	4.8	ug/l	
95-47-6	o-Xylene	3.5	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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	98%	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	102%	101%	79-125%
2037-26-5	Toluene-D8	90%	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	95%	100%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Result is from Run# 3
(c) 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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X033300.D	1	02/18/14	FS	02/10/14	OP50415	SX1569
Run #2	X033356.D	4	02/20/14	FS	02/10/14	OP50415	SX1571

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	47	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.54	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.7	ug/l	
108-95-2	Phenol	ND	4.7	0.47	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.7	0.92	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.52	ug/l	
83-32-9	Acenaphthene	1.2	4.7	0.47	ug/l	J
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
62-53-3	Aniline	ND	4.7	0.94	ug/l	
120-12-7	Anthracene	ND	4.7	0.58	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.67	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.76	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.63	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.94	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.52	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
86-74-8	Carbazole	ND	4.7	0.58	ug/l	
218-01-9	Chrysene	ND	4.7	0.68	ug/l	

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.47	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	0.63	4.7	0.59	ug/l	J
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.77	ug/l	
132-64-9	Dibenzofuran	0.84	4.7	0.50	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	4.7	0.94	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.94	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.94	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.5	4.7	1.5	ug/l	J
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	0.72	4.7	0.47	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.7	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.47	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.59	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
90-12-0	1-Methylnaphthalene	65.2	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	38.1	4.7	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.57	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.72	ug/l	
91-20-3	Naphthalene	296 [a]	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.50	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.56	ug/l	
129-00-0	Pyrene	ND	4.7	0.77	ug/l	
110-86-1	Pyridine	ND	9.4	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	37%	14-67%
4165-62-2	Phenol-d5	25%	23%	10-50%
118-79-6	2,4,6-Tribromophenol	99%	83%	33-118%
4165-60-0	Nitrobenzene-d5	61%	64%	42-108%
321-60-8	2-Fluorobiphenyl	68%	72%	40-106%
1718-51-0	Terphenyl-d14	93%	88%	39-121%

(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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD126544.D	1	02/12/14	CP	n/a	n/a	GCD5167
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.359	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-131%
98-08-8	aaa-Trifluorotoluene	116%		69-143%

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WR3904.D	4	02/20/14	SJL	02/11/14	OP50425	GWR102
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)	3.83	0.96	0.38	mg/l	
	TPH (> C22-C36)	0.447	0.96	0.38	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		50-131%

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	900	300	17	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	183	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	SS17-MW05A		
Lab Sample ID:	FA12333-6	**Date Sampled:**	02/07/14
Matrix:	AQ - Ground Water	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	83.4	40	40	mg/l	1	02/08/14 09:45	AA	SM5210 B-11
Chemical Oxygen Demand	136	20	5.3	mg/l	1	02/11/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	65.8	1.0	0.50	mg/l	1	02/10/14 10:35	LE	SM4500S2- F-11
Iron, Ferric [b]	0.17 U	0.80	0.17	mg/l	1	02/14/14 18:20	LM	SM3500FE B-11
Iron, Ferrous [c]	1.3	0.50	0.16	mg/l	5	02/08/14 13:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.46	0.10	0.030	mg/l	1	02/14/14 14:43	AC	EPA 350.1
Nitrogen, Nitrate [d]	0.50 U	1.0	0.50	mg/l	10	02/08/14 13:49	AA	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	02/12/14 12:37	AC	EPA 351.2
Solids, Total Dissolved	3180	200	20	mg/l	2	02/13/14 14:35	CH	SM2540 C-11
Sulfate	1870	50	15	mg/l	25	02/11/14 16:43	AA	EPA 300/SW846 9056A

(a) Estimated value. Result considered minimum due to low spike recovery.
(b) Calculated as: (Iron) - (Iron, Ferrous)
(c) Field analysis required. Received out of hold time and analyzed by request.
(d) Dilution required 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:	SS17-MW05A		
Lab Sample ID:	FA12333-6F	**Date Sampled:**	02/07/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/08/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	163	15	1.0	ug/l	1	02/14/14	02/14/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11397
(2) Prep QC Batch: MP26815

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:	FA12333-7	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I18222.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2 [a]	B096345.D	1	02/19/14	WV	n/a	n/a	VB3927

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND [b]	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND [b]	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12333-7	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND [b]	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND [b]	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND [b]	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	0.53	2.0	0.48	ug/l	J
95-47-6	o-Xylene	ND [b]	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:	FA12333-7	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	104%	79-125%
2037-26-5	Toluene-D8	99%	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	103%	83-118%

(a) Sample vial(s) contained significant headspace; 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:	TRIP BLANK		
Lab Sample ID:	FA12333-8	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I18223.D	1	02/18/14	WV	n/a	n/a	VI304
Run #2 [a]	B096346.D	1	02/19/14	WV	n/a	n/a	VB3927

	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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND [b]	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA12333-8	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND [b]	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND [b]	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	FA12333-8	**Date Sampled:**	02/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	79-125%
2037-26-5	Toluene-D8	100%	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	107%	83-118%

(a) Sample vial(s) contained significant headspace; 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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA12333

Page: 1 of 1
Project No: 11.0019
COC Number(1): 02072014
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: T Lucero / B Parrish / K Fuller

	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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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	SS17-MW07	SS17-MW23	7-Feb-14	0910	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								3
2	SS17-MW23	SS17-MW23	7-Feb-14	1220	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								4
3	TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	3
4	TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	4
					-																						
					-																						
					-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Templeton	2/7/2014		1. FX		10:30
2. FX			2. J. Cone (ADE)	2-8-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 797855021557 / 797855021693
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 2.6

4.1
4

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NATIONVIEW

FA 12 333

Page: 1 of 1
Project No: 11.0019
COC Number(1): 02072014
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: T Lucero / B Parrish / K Fuller

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	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW05	SS17-MW22	7-Feb-14	1040	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
SS17-MW05a	SS17-MW22	7-Feb-14	1040	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	☒																	1
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	☒																	2
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	2/7/2014		1. FX		10:30
2. FX			2. Lopez (ALSE)	2-8-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 797855021487 / 797855021513
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

FA12333: Chain of Custody
Page 2 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA12333 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 2-8-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4

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 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: 3.0 3.2 3.4 3.0

CORRECTED TEMPS: 2.6 2.8 3.0 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [X] 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: FOR SAMPLE #2 COC READS MW-23 AT 12:00 LABELS MW-21 AT 12:20

TECHNICIAN SIGNATURE/DATE 2-8-14 REVIEWER SIGNATURE/DATE 02/08/14

NF 12/10

receipt confirmation 122910.xls

4.1

4

FA12333: Chain of Custody
Page 3 of 6

From: (575) 921-1869
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14 10/13 12270/26

Ship Date: 07FEB14
ActWgt: 40.0 LB
CAD: 100026931/INET3460

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

Ref # 11-0019.73.010
Invoice # 11-0019.73.010
PO # 11-0019.73.010
Dept # 11-0016.73.010

1 of 4

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7978 5502 1487

MASTER

X0 TIXA

32811
FL-US
MCO

522G1/5E2F/F229

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

FA12333: Chain of Custody
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VIEW

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02072014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

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	Fe2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW07	SS17-MW07	7-Feb-14	0910	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								3
SS17-MW21	SS17-MW21	7-Feb-14	1220	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								4
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	3
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	4
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	2/7/2014		1.		
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient

Shipped No.:

Airbill Number: 797855021557 / 797855021693

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 (-e) 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

4.1

4

FA12333: Chain of Custody

Page 5 of 6

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Page: 1 of 1

Project No: 11.0019

COC Number(1): 02072014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17

Client Name: Holloman AFB

Collected by: T Lucero / B Parrish / K Fuller

Sample Analysis Requested (5)

Quality Assurance Samples (6)

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 (1)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	H8015DRO/ORO	FE2/FE3, SO4, TDS, NO3/O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
SS17-MW05	SS17-MW05	7-Feb-14	1040	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								1
SS17-MW05a	SS17-MW05a	7-Feb-14	1040	-	FD		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								2
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	1
TRIP BLANK	Field QC	7-Feb-14		-	TB		AQ	1	[1]																	2
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero	2/7/2014		1.		
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped: No

Method of Shipment: Fed Ex

Airbill Number: 797855021487 / 797855021513

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

FA12333: Chain of Custody

Page 6 of 6

Southeast ACCUTEST LABORATORIES

06/17/14

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA15429

Sampling Dates: 05/29/14 - 05/30/14

Report to:

Nation View
1641 Vandergrift Road Building 1266
HAFB, NM 88330
tlucero@nationview.net; Brian.parrish@nationview.net;
Kfuller@nationview.net
ATTN: Tony Lucero

Total number of pages in report: **112**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program 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), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Nation View

Job No: FA15429

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15429-1	05/29/14	14:15	BPKF	05/31/14	AQ	Ground Water	SS17-MW21
FA15429-1F	05/29/14	14:15	BPKF	05/31/14	AQ	Groundwater Filtered	SS17-MW21
FA15429-2	05/30/14	08:00	BPKF	05/31/14	AQ	Ground Water	SS17-MW05
FA15429-2D	05/30/14	08:00	BPKF	05/31/14	AQ	Water Dup/MSD	SS17-MW05
FA15429-2F	05/30/14	08:00	BPKF	05/31/14	AQ	Groundwater Filtered	SS17-MW05
FA15429-2FD	05/30/14	08:00	BPKF	05/31/14	AQ	Water Dup/MSD	SS17-MW05
FA15429-2FS	05/30/14	08:00	BPKF	05/31/14	AQ	Water Matrix Spike	SS17-MW05
FA15429-2S	05/30/14	08:00	BPKF	05/31/14	AQ	Water Matrix Spike	SS17-MW05
FA15429-3	05/30/14	09:40	BPKF	05/31/14	AQ	Ground Water	SS17-MW07
FA15429-3F	05/30/14	09:40	BPKF	05/31/14	AQ	Groundwater Filtered	SS17-MW07
FA15429-4	05/30/14	10:50	BPKF	05/31/14	AQ	Ground Water	SS17-M08
FA15429-4F	05/30/14	10:50	BPKF	05/31/14	AQ	Groundwater Filtered	SS17-M08
FA15429-5	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: FA15429

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15429-6	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK
FA15429-7	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK
FA15429-8	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK
FA15429-9	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK
FA15429-10	05/30/14	00:00	BPKF	05/31/14	AQ	Ground Water	TRIP BLANK

Summary of Hits

Job Number: FA15429
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/29/14 thru 05/30/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15429-1	**SS17-MW21**					
Benzene		45700	500	120	ug/l	SW846 8260B
Ethylbenzene		3780	500	140	ug/l	SW846 8260B
n-Propylbenzene		187 J	500	120	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1000	1000	120	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		395 J	1000	100	ug/l	SW846 8260B
Toluene		28700	500	100	ug/l	SW846 8260B
m,p-Xylene		9290	1000	240	ug/l	SW846 8260B
o-Xylene		2960	500	100	ug/l	SW846 8260B
Benzoic Acid		121 J	380	77	ug/l	SW846 8270D
2,4-Dimethylphenol		27.5	4.8	0.48	ug/l	SW846 8270D
2-Methylphenol		247	38	3.8	ug/l	SW846 8270D
3&4-Methylphenol		668	38	9.0	ug/l	SW846 8270D
Phenol		1220	120	12	ug/l	SW846 8270D
1-Methylnaphthalene		24.7	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene		35.1	4.8	0.51	ug/l	SW846 8270D
Naphthalene		227	38	3.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)		185	50	25	mg/l	SW846 8015C
TPH (C10-C22)		10.5	0.95	0.38	mg/l	SW846 8015C
TPH (> C22-C36)		0.775 J	0.95	0.38	mg/l	SW846 8015C
Iron		154 J	300	17	ug/l	SW846 6010C
Manganese		27.9	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		169	120	120	mg/l	SM5210 B-11
Chemical Oxygen Demand		515	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		106	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [a]		0.15 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.82	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		3.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3290	200	20	mg/l	SM2540 C-11
Sulfate		1820	100	30	mg/l	EPA 300/SW846 9056A
FA15429-1F	**SS17-MW21**					
Manganese		33.9	15	1.0	ug/l	SW846 6010C
FA15429-2	**SS17-MW05**					
Benzene		124	50	12	ug/l	SW846 8260B
Ethylbenzene		2680	50	14	ug/l	SW846 8260B
Isopropylbenzene		75.8	50	10	ug/l	SW846 8260B
Naphthalene		214 J	250	50	ug/l	SW846 8260B
n-Propylbenzene		221	50	12	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		165	100	12	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		27.2 J	100	10	ug/l	SW846 8260B

Summary of Hits

Job Number: FA15429
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/29/14 thru 05/30/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		361	50	10	ug/l	SW846 8260B
m,p-Xylene		680	100	24	ug/l	SW846 8260B
o-Xylene		77.8	50	10	ug/l	SW846 8260B
Acenaphthene		1.5 J	4.8	0.48	ug/l	SW846 8270D
Dibenzofuran		1.0 J	4.8	0.51	ug/l	SW846 8270D
Fluorene		1.3 J	4.8	0.48	ug/l	SW846 8270D
1-Methylnaphthalene		63.7	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene		22.2	4.8	0.51	ug/l	SW846 8270D
Naphthalene		215	19	1.9	ug/l	SW846 8270D
Phenanthrene		0.72 J	4.8	0.57	ug/l	SW846 8270D
TPH-GRO (C6-C10)		8.42	1.0	0.50	mg/l	SW846 8015C
TPH (C10-C22)		3.96	0.48	0.19	mg/l	SW846 8015C
TPH (> C22-C36)		0.334 J	0.48	0.19	mg/l	SW846 8015C
Iron		24.5 J	300	17	ug/l	SW846 6010C
Manganese		176	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		73.3	40	40	mg/l	SM5210 B-11
Chemical Oxygen Demand		165	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		41.9	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		0.037 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.69	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		1.5	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3120	200	20	mg/l	SM2540 C-11
Sulfate		1910	50	15	mg/l	EPA 300/SW846 9056A
FA15429-2F	**SS17-MW05**					
Manganese		172	15	1.0	ug/l	SW846 6010C
FA15429-3	**SS17-MW07**					
Benzene		28.4	2.0	0.49	ug/l	SW846 8260B
sec-Butylbenzene		2.4	2.0	0.54	ug/l	SW846 8260B
Ethylbenzene		57.3	2.0	0.56	ug/l	SW846 8260B
Isopropylbenzene		2.3	2.0	0.40	ug/l	SW846 8260B
Naphthalene		9.7 J	10	2.0	ug/l	SW846 8260B
n-Propylbenzene		7.5	2.0	0.48	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		35.1	4.0	0.49	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		11.6	4.0	0.40	ug/l	SW846 8260B
Toluene		108	2.0	0.40	ug/l	SW846 8260B
m,p-Xylene		126	4.0	0.96	ug/l	SW846 8260B
o-Xylene		49.2	2.0	0.40	ug/l	SW846 8260B
1-Methylnaphthalene		1.6 J	4.9	0.49	ug/l	SW846 8270D
Naphthalene		6.2	4.9	0.49	ug/l	SW846 8270D
TPH-GRO (C6-C10)		1.09	0.25	0.13	mg/l	SW846 8015C
TPH (C10-C22)		0.635	0.048	0.019	mg/l	SW846 8015C

Summary of Hits

Job Number: FA15429
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/29/14 thru 05/30/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
TPH (> C22-C36)	0.0549	0.048	0.019	mg/l	SW846 8015C
Iron	91.1 J	300	17	ug/l	SW846 6010C
Manganese	597	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	19.9 J	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	2.2	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [a]	0.091 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.082 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [c]	0.75 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.65	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2460	200	20	mg/l	SM2540 C-11
Sulfate	1660	50	15	mg/l	EPA 300/SW846 9056A
FA15429-3F SS17-MW07					
Manganese	581	15	1.0	ug/l	SW846 6010C
FA15429-4 SS17-M08					
Benzene	21.3 J	50	12	ug/l	SW846 8260B
Ethylbenzene	2880	50	14	ug/l	SW846 8260B
Isopropylbenzene	69.8	50	10	ug/l	SW846 8260B
Naphthalene	242 J	250	50	ug/l	SW846 8260B
n-Propylbenzene	218	50	12	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	700	100	12	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	214	100	10	ug/l	SW846 8260B
Toluene	87.6	50	10	ug/l	SW846 8260B
m,p-Xylene	3580	100	24	ug/l	SW846 8260B
o-Xylene	49.6 J	50	10	ug/l	SW846 8260B
2,4-Dimethylphenol	0.50 J	4.8	0.48	ug/l	SW846 8270D
3&4-Methylphenol	5.8	4.8	1.1	ug/l	SW846 8270D
1-Methylnaphthalene	42.4	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene	31.1	4.8	0.51	ug/l	SW846 8270D
Naphthalene	196	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)	16.1	2.5	1.3	mg/l	SW846 8015C
TPH (C10-C22)	3.90	0.48	0.19	mg/l	SW846 8015C
TPH (> C22-C36)	0.308 J	0.48	0.19	mg/l	SW846 8015C
Iron	95.4 J	300	17	ug/l	SW846 6010C
Manganese	156	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	92.3	40	40	mg/l	SM5210 B-11
Chemical Oxygen Demand	165	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	52.4	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [a]	0.095 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.35	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3170	200	20	mg/l	SM2540 C-11

Summary of Hits

Job Number: FA15429
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/29/14 thru 05/30/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sulfate		1870	50	15	mg/l	EPA 300/SW846 9056A
FA15429-4F	**SS17-M08**					
Manganese		167	15	1.0	ug/l	SW846 6010C
FA15429-5	**TRIP BLANK**					
Toluene		0.21 J	1.0	0.20	ug/l	SW846 8260B
FA15429-6	**TRIP BLANK**					
Toluene		2.1	1.0	0.20	ug/l	SW846 8260B

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077028.D	500	06/09/14	RB	n/a	n/a	VN3372
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	13000	5300	ug/l	
107-02-8	Acrolein	ND	10000	3200	ug/l	
107-13-1	Acrylonitrile	ND	5000	1000	ug/l	
71-43-2	Benzene	45700	500	120	ug/l	
108-86-1	Bromobenzene	ND	500	160	ug/l	
74-97-5	Bromochloromethane	ND	500	190	ug/l	
75-27-4	Bromodichloromethane	ND	500	130	ug/l	
75-25-2	Bromoform	ND	500	190	ug/l	
104-51-8	n-Butylbenzene	ND	500	150	ug/l	
135-98-8	sec-Butylbenzene	ND	500	140	ug/l	
98-06-6	tert-Butylbenzene	ND	500	140	ug/l	
108-90-7	Chlorobenzene	ND	500	120	ug/l	
75-00-3	Chloroethane	ND	1000	250	ug/l	
67-66-3	Chloroform	ND	500	160	ug/l	
95-49-8	o-Chlorotoluene	ND	500	110	ug/l	
106-43-4	p-Chlorotoluene	ND	500	150	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2500	500	ug/l	
75-15-0	Carbon disulfide	ND	1000	100	ug/l	
56-23-5	Carbon tetrachloride	ND	500	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	130	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	130	ug/l	
563-58-6	1,1-Dichloropropene	ND	500	140	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	390	ug/l	
106-93-4	1,2-Dibromoethane	ND	500	120	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	120	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	180	ug/l	
142-28-9	1,3-Dichloropropane	ND	500	170	ug/l	
594-20-7	2,2-Dichloropropane	ND	500	170	ug/l	
124-48-1	Dibromochloromethane	ND	500	180	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	170	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	160	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	100	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	500	100	ug/l	
95-50-1	o-Dichlorobenzene	ND	500	150	ug/l	
106-46-7	p-Dichlorobenzene	ND	500	100	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	170	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	110	ug/l	
100-41-4	Ethylbenzene	3780	500	140	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
87-68-3	Hexachlorobutadiene	ND	1000	250	ug/l	
98-82-8	Isopropylbenzene	ND	500	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	120	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2500	500	ug/l	
74-83-9	Methyl bromide	ND	1000	270	ug/l	
74-87-3	Methyl chloride	ND	1000	270	ug/l	
74-95-3	Methylene bromide	ND	1000	150	ug/l	
75-09-2	Methylene chloride	ND	2500	1000	ug/l	
78-93-3	Methyl ethyl ketone	ND	2500	740	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	ND	2500	500	ug/l	
103-65-1	n-Propylbenzene	187	500	120	ug/l	J
100-42-5	Styrene	ND	500	120	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	130	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	170	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	140	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	160	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	500	250	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1000	290	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	500	250	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1000	1000	120	ug/l	
108-67-8	1,3,5-Trimethylbenzene	395	1000	100	ug/l	J
127-18-4	Tetrachloroethylene	ND	500	130	ug/l	
108-88-3	Toluene	28700	500	100	ug/l	
79-01-6	Trichloroethylene	ND	500	150	ug/l	
75-69-4	Trichlorofluoromethane	ND	1000	250	ug/l	
75-01-4	Vinyl chloride	ND	500	160	ug/l	
108-05-4	Vinyl Acetate	ND	5000	1000	ug/l	
	m,p-Xylene	9290	1000	240	ug/l	
95-47-6	o-Xylene	2960	500	100	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678138.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
Run #2	L0678141.D	8	06/05/14	MV	06/04/14	OP51859	SL3462
Run #3	L0678196.D	25	06/09/14	MV	06/04/14	OP51859	SL3464

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml
Run #3	1040 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	121 [a]	380	77	ug/l	J
95-57-8	2-Chlorophenol	ND	4.8	0.50	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	27.5	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	247 [a]	38	3.8	ug/l	
	3&4-Methylphenol	668 [a]	38	9.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	1220 [b]	120	12	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.94	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	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	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.62	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.63	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.69	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether [c]	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.78	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.53	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.56	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.65	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.87	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.78	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.51	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.61	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.64	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [c]	ND	4.8	0.60	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	24.7	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	35.1	4.8	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.73	ug/l	
91-20-3	Naphthalene	227 [a]	38	3.8	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	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	0.51	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.57	ug/l	
129-00-0	Pyrene	ND	4.8	0.78	ug/l	

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	41%	43%	0% d	14-67%
4165-62-2	Phenol-d5	10%	24%	0% d	10-50%
118-79-6	2,4,6-Tribromophenol	78%	68%	0% d	33-118%
4165-60-0	Nitrobenzene-d5	80%	79%	0% d	42-108%
321-60-8	2-Fluorobiphenyl	70%	71%	0% d	40-106%
1718-51-0	Terphenyl-d14	73%	67%	0% d	39-121%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Associated BS recovery outside control limits.
(d) Outside control limits due to dilution.

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128064.D	500	06/03/14	CP	n/a	n/a	GCD5238
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	185	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-131%
98-08-8	aaa-Trifluorotoluene	92%		69-143%

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003621.D	20	06/10/14	SJL	06/05/14	OP51869	GJJ139
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)	10.5	0.95	0.38	mg/l	
	TPH (> C22-C36)	0.775	0.95	0.38	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		50-131%

(a) Outside control limits due to dilution.

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	154 J	300	17	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	27.9	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-MW21		
Lab Sample ID:	FA15429-1	**Date Sampled:**	05/29/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	169	120	120	mg/l	60	05/31/14 11:51	KC	SM5210 B-11
Chemical Oxygen Demand	515	20	5.3	mg/l	1	06/10/14 14:03	LE	SM5220 C-11
Hydrogen Sulfide	106	1.0	0.50	mg/l	1	06/02/14 10:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.15 J	0.40	0.047	mg/l	1	06/16/14 09:39	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/31/14 13:50	VK	SM3500FE B-11
Nitrogen, Ammonia	0.82	0.10	0.030	mg/l	1	06/11/14 13:51	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/31/14 15:01	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	3.5	0.53	0.17	mg/l	1	06/09/14 14:00	DM	EPA 351.2
Solids, Total Dissolved	3290	200	20	mg/l	2	06/02/14 14:20	KC	SM2540 C-11
Sulfate	1820	100	30	mg/l	50	06/02/14 17:00	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Sample analyzed beyond hold time.

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:	SS17-MW21		
Lab Sample ID:	FA15429-1F	**Date Sampled:**	05/29/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	33.9	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077029.D	50	06/09/14	RB	n/a	n/a	VN3372
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	1300	530	ug/l	
107-02-8	Acrolein	ND	1000	320	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	124	50	12	ug/l	
108-86-1	Bromobenzene	ND	50	16	ug/l	
74-97-5	Bromochloromethane	ND	50	19	ug/l	
75-27-4	Bromodichloromethane	ND	50	13	ug/l	
75-25-2	Bromoform	ND	50	19	ug/l	
104-51-8	n-Butylbenzene	ND	50	15	ug/l	
135-98-8	sec-Butylbenzene	ND	50	14	ug/l	
98-06-6	tert-Butylbenzene	ND	50	14	ug/l	
108-90-7	Chlorobenzene	ND	50	12	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	16	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	15	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	50	ug/l	
75-15-0	Carbon disulfide	ND	100	10	ug/l	
56-23-5	Carbon tetrachloride	ND	50	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	14	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	39	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	12	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	18	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	17	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	17	ug/l	
124-48-1	Dibromochloromethane	ND	50	18	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	17	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	16	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	10	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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	15	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	2680	50	14	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	75.8	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	12	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	50	ug/l	
74-83-9	Methyl bromide	ND	100	27	ug/l	
74-87-3	Methyl chloride	ND	100	27	ug/l	
74-95-3	Methylene bromide	ND	100	15	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	74	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	10	ug/l	
91-20-3	Naphthalene	214	250	50	ug/l	J
103-65-1	n-Propylbenzene	221	50	12	ug/l	
100-42-5	Styrene	ND	50	12	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	14	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	29	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	165	100	12	ug/l	
108-67-8	1,3,5-Trimethylbenzene	27.2	100	10	ug/l	J
127-18-4	Tetrachloroethylene	ND	50	13	ug/l	
108-88-3	Toluene	361	50	10	ug/l	
79-01-6	Trichloroethylene	ND	50	15	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	16	ug/l	
108-05-4	Vinyl Acetate	ND	500	100	ug/l	
	m,p-Xylene	680	100	24	ug/l	
95-47-6	o-Xylene	77.8	50	10	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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678126.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
Run #2	L0678131.D	4	06/05/14	MV	06/04/14	OP51859	SL3462

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

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	0.50	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.2	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	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.94	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	ug/l	
83-32-9	Acenaphthene	1.5	4.8	0.48	ug/l	J
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.62	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.63	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.69	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether [a]	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.78	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	ug/l	

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.53	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.56	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.65	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.87	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.78	ug/l	
132-64-9	Dibenzofuran	1.0	4.8	0.51	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.61	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	1.3	4.8	0.48	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.8	0.64	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	4.8	0.60	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	63.7	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	22.2	4.8	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.73	ug/l	
91-20-3	Naphthalene	215 [b]	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	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	0.51	ug/l	
85-01-8	Phenanthrene	0.72	4.8	0.57	ug/l	J
129-00-0	Pyrene	ND	4.8	0.78	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%	35%	14-67%
4165-62-2	Phenol-d5	21%	25%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	80%	33-118%
4165-60-0	Nitrobenzene-d5	73%	84%	42-108%
321-60-8	2-Fluorobiphenyl	72%	78%	40-106%
1718-51-0	Terphenyl-d14	80%	83%	39-121%

(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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128065.D	10	06/03/14	CP	n/a	n/a	GCD5238
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.42	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-131%
98-08-8	aaa-Trifluorotoluene	106%		69-143%

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003623.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
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)	3.96	0.48	0.19	mg/l	
	TPH (> C22-C36)	0.334	0.48	0.19	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		50-131%

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	24.5 J	300	17	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	176	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-MW05		
Lab Sample ID:	FA15429-2	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	73.3	40	40	mg/l	20	05/31/14 11:51	KC	SM5210 B-11
Chemical Oxygen Demand	165	20	5.3	mg/l	1	06/10/14 14:03	LE	SM5220 C-11
Hydrogen Sulfide	41.9	1.0	0.50	mg/l	1	06/02/14 10:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	06/16/14 09:11	LM	SM3500FE B-11
Iron, Ferrous [b]	0.037 J	0.10	0.030	mg/l	1	05/31/14 13:50	VK	SM3500FE B-11
Nitrogen, Ammonia	0.69	0.10	0.030	mg/l	1	06/11/14 13:32	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/31/14 15:18	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	06/09/14 13:47	DM	EPA 351.2
Solids, Total Dissolved	3120	200	20	mg/l	2	06/02/14 14:20	KC	SM2540 C-11
Sulfate	1910	50	15	mg/l	25	06/02/14 17:17	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW05		
Lab Sample ID:	FA15429-2F	**Date Sampled:**	05/30/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	172	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11670
(2) Prep QC Batch: MP27407

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077030.D	2	06/09/14	RB	n/a	n/a	VN3372
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	50	21	ug/l	
107-02-8	Acrolein	ND	40	13	ug/l	
107-13-1	Acrylonitrile	ND	20	4.0	ug/l	
71-43-2	Benzene	28.4	2.0	0.49	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.63	ug/l	
74-97-5	Bromochloromethane	ND	2.0	0.75	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.52	ug/l	
75-25-2	Bromoform	ND	2.0	0.77	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.60	ug/l	
135-98-8	sec-Butylbenzene	2.4	2.0	0.54	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.57	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.48	ug/l	
75-00-3	Chloroethane	ND	4.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.62	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.45	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.58	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	2.0	ug/l	
75-15-0	Carbon disulfide	ND	4.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.79	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.51	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.51	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.56	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.0	1.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.48	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.71	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.68	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.66	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.72	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	0.66	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.65	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.42	ug/l	

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	2.0	0.40	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	0.59	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	0.40	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.69	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	57.3	2.0	0.56	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.0	1.0	ug/l	
98-82-8	Isopropylbenzene	2.3	2.0	0.40	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.48	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.0	ug/l	
74-83-9	Methyl bromide	ND	4.0	1.1	ug/l	
74-87-3	Methyl chloride	ND	4.0	1.1	ug/l	
74-95-3	Methylene bromide	ND	4.0	0.58	ug/l	
75-09-2	Methylene chloride	ND	10	4.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.40	ug/l	
91-20-3	Naphthalene	9.7	10	2.0	ug/l	J
103-65-1	n-Propylbenzene	7.5	2.0	0.48	ug/l	
100-42-5	Styrene	ND	2.0	0.47	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.67	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.55	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.63	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4.0	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	35.1	4.0	0.49	ug/l	
108-67-8	1,3,5-Trimethylbenzene	11.6	4.0	0.40	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.51	ug/l	
108-88-3	Toluene	108	2.0	0.40	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.60	ug/l	
75-69-4	Trichlorofluoromethane	ND	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.65	ug/l	
108-05-4	Vinyl Acetate	ND	20	4.0	ug/l	
	m,p-Xylene	126	4.0	0.96	ug/l	
95-47-6	o-Xylene	49.2	2.0	0.40	ug/l	

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678139.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
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	0.50	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	0.56	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.49	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.3	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	0.49	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.58	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	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.95	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.54	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	0.97	ug/l	
120-12-7	Anthracene	ND	4.9	0.60	ug/l	
92-87-5	Benzidine	ND	24	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.62	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.63	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.69	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.78	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether [a]	ND	4.9	0.65	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	0.79	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.97	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.54	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.60	ug/l	
218-01-9	Chrysene	ND	4.9	0.70	ug/l	

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.53	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.67	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.56	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.66	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.87	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.52	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	0.61	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.68	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.64	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	0.97	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	4.9	0.61	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	1.6	4.9	0.49	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.9	0.52	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.59	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.74	ug/l	
91-20-3	Naphthalene	6.2	4.9	0.49	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.97	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	0.52	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.58	ug/l	
129-00-0	Pyrene	ND	4.9	0.79	ug/l	
110-86-1	Pyridine	ND	9.7	1.9	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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	82%		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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128101.D	2.5	06/04/14	CP	n/a	n/a	GCD5239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.09	0.25	0.13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		70-131%
98-08-8	aaa-Trifluorotoluene	95%		69-143%

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003637.D	1	06/11/14	SJL	06/05/14	OP51869	GJJ140
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)	0.635	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.0549	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		50-131%

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	91.1 J	300	17	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	597	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-MW07		
Lab Sample ID:	FA15429-3	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.0 U	4.0	4.0	mg/l	2	05/31/14 11:51	KC	SM5210 B-11
Chemical Oxygen Demand	19.9 J	20	5.3	mg/l	1	06/10/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	2.2	1.0	0.50	mg/l	1	06/02/14 10:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.091 J	0.40	0.047	mg/l	1	06/16/14 09:44	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/31/14 13:50	VK	SM3500FE B-11
Nitrogen, Ammonia	0.082 J	0.10	0.030	mg/l	1	06/11/14 13:53	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.75 J	1.0	0.50	mg/l	10	05/31/14 15:35	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.65	0.53	0.17	mg/l	1	06/09/14 14:01	DM	EPA 351.2
Solids, Total Dissolved	2460	200	20	mg/l	2	06/02/14 14:20	KC	SM2540 C-11
Sulfate	1660	50	15	mg/l	25	06/02/14 17:34	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW07		
Lab Sample ID:	FA15429-3F	**Date Sampled:**	05/30/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	581	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077031.D	50	06/09/14	RB	n/a	n/a	VN3372
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	1300	530	ug/l	
107-02-8	Acrolein	ND	1000	320	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	21.3	50	12	ug/l	J
108-86-1	Bromobenzene	ND	50	16	ug/l	
74-97-5	Bromochloromethane	ND	50	19	ug/l	
75-27-4	Bromodichloromethane	ND	50	13	ug/l	
75-25-2	Bromoform	ND	50	19	ug/l	
104-51-8	n-Butylbenzene	ND	50	15	ug/l	
135-98-8	sec-Butylbenzene	ND	50	14	ug/l	
98-06-6	tert-Butylbenzene	ND	50	14	ug/l	
108-90-7	Chlorobenzene	ND	50	12	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
67-66-3	Chloroform	ND	50	16	ug/l	
95-49-8	o-Chlorotoluene	ND	50	11	ug/l	
106-43-4	p-Chlorotoluene	ND	50	15	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	50	ug/l	
75-15-0	Carbon disulfide	ND	100	10	ug/l	
56-23-5	Carbon tetrachloride	ND	50	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	14	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	39	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	12	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	12	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	18	ug/l	
142-28-9	1,3-Dichloropropane	ND	50	17	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	17	ug/l	
124-48-1	Dibromochloromethane	ND	50	18	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	17	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	16	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	10	ug/l	

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	50	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	15	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	2880	50	14	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
98-82-8	Isopropylbenzene	69.8	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	12	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	50	ug/l	
74-83-9	Methyl bromide	ND	100	27	ug/l	
74-87-3	Methyl chloride	ND	100	27	ug/l	
74-95-3	Methylene bromide	ND	100	15	ug/l	
75-09-2	Methylene chloride	ND	250	100	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	74	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	10	ug/l	
91-20-3	Naphthalene	242	250	50	ug/l	J
103-65-1	n-Propylbenzene	218	50	12	ug/l	
100-42-5	Styrene	ND	50	12	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	14	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	29	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	700	100	12	ug/l	
108-67-8	1,3,5-Trimethylbenzene	214	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	13	ug/l	
108-88-3	Toluene	87.6	50	10	ug/l	
79-01-6	Trichloroethylene	ND	50	15	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	16	ug/l	
108-05-4	Vinyl Acetate	ND	500	100	ug/l	
	m,p-Xylene	3580	100	24	ug/l	
95-47-6	o-Xylene	49.6	50	10	ug/l	J

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678140.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
Run #2	L0678197.D	4	06/09/14	MV	06/04/14	OP51859	SL3464

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

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	0.50	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	0.50	4.8	0.48	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	24	5.2	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	0.48	ug/l	
	3&4-Methylphenol	5.8	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.94	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	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	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.62	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.63	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.69	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether [a]	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.78	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	ug/l	

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.53	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.56	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.52	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.65	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.87	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.78	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.51	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.96	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.61	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.64	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	4.8	0.60	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	42.4	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	31.1	4.8	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.73	ug/l	
91-20-3	Naphthalene	196 [b]	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	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	0.51	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.57	ug/l	
129-00-0	Pyrene	ND	4.8	0.78	ug/l	
110-86-1	Pyridine	ND	9.6	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%	32%	14-67%
4165-62-2	Phenol-d5	17%	20%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	75%	33-118%
4165-60-0	Nitrobenzene-d5	71%	78%	42-108%
321-60-8	2-Fluorobiphenyl	70%	75%	40-106%
1718-51-0	Terphenyl-d14	79%	83%	39-121%

(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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128106.D	25	06/04/14	CP	n/a	n/a	GCD5239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	16.1	2.5	1.3	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		70-131%
98-08-8	aaa-Trifluorotoluene	98%		69-143%

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Report of Analysis

Client Sample ID:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003627.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
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)	3.90	0.48	0.19	mg/l	
	TPH (> C22-C36)	0.308	0.48	0.19	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		50-131%

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	95.4 J	300	17	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	156	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	SS17-M08		
Lab Sample ID:	FA15429-4	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	92.3	40	40	mg/l	20	05/31/14 11:51	KC	SM5210 B-11
Chemical Oxygen Demand	165	20	5.3	mg/l	1	06/10/14 14:03	LE	SM5220 C-11
Hydrogen Sulfide	52.4	1.0	0.50	mg/l	1	06/02/14 10:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.095 J	0.40	0.047	mg/l	1	06/16/14 09:57	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/31/14 13:50	VK	SM3500FE B-11
Nitrogen, Ammonia	0.35	0.10	0.030	mg/l	1	06/11/14 13:54	VK	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/31/14 15:52	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	06/09/14 14:02	DM	EPA 351.2
Solids, Total Dissolved	3170	200	20	mg/l	2	06/02/14 14:20	KC	SM2540 C-11
Sulfate	1870	50	15	mg/l	25	06/02/14 17:51	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-M08		
Lab Sample ID:	FA15429-4F	**Date Sampled:**	05/30/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/31/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	167	15	1.0	ug/l	1	06/14/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27406

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:	FA15429-5	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077024.D	1	06/09/14	RB	n/a	n/a	VN3372
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA15429-5	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.21	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	FA15429-5	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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:	TRIP BLANK		
Lab Sample ID:	FA15429-6	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077023.D	1	06/09/14	RB	n/a	n/a	VN3372
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA15429-6	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	2.1	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	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:	FA15429-6	**Date Sampled:**	05/30/14
Matrix:	AQ - Ground Water	**Date Received:**	05/31/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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:

- Chain of Custody

NATIONVIEW

FA15429

Page: 1 of 1
Project No: 11.0019
COC Number(1): 05302014
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: K Fuller / 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW21	SS17-MW21	29-May-14	1415	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							1	1
SS17-MW05	SS17-MW05	30-May-14	800	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	2
SS17-MW05-MS	SS17-MW05-MS	30-May-14	800	-	N		MS	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	3
SS17-MW05-MSD	SS17-MW05-MSD	30-May-14	800	-	N		SD	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	4
SS17-MW07	SS17-MW07	30-May-14	940	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							3	5
SS17-M08	SS17-M08	30-May-14	1050	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							4	6
TRIP BLANK	Field QC	30-May-14		-	TB		AQ	1	[1]																5	*1 - 6
TEMP BLANK	Field QC	30-May-14		-	TB		AQ	1	[1]																6	*1 - 6
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Paul	5/30/2014	1400	1. FX		09:45
2. FX			2. Cooper (ALSE)	5-31-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: ACCUTEST
Lab Recipient:
Shipped No.:
Airbill Number: 770143922353
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 3.0 2.6 3.0 2.4 3.0

FA15429: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15429 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 5-31-14 09:45 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 6

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7701 4392 2353

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

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 6
- [ ] 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 2.6 2.2 2.6 2.0 2.6
- [ ] CORRECTED TEMPS: 2.8 3.0 2.6 3.0 2.4 3.0

SAMPLE INFORMATION

- [ ] 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
- [X] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES) 2 VIALS #10(TB)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 5-31-14 REVIEWER SIGNATURE/DATE 05/31/14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA15429: Chain of Custody
Page 2 of 3

From: (575) 921-1599
Tony Lucero
NATIONVIEW
BLG 1265 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14101420070326

Ship Date: 30MAY14
ActWgt: 60.0 LB
CAD: 190026931/INET3490

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

Ref # 11-0010.73.010
Invoice # 11-0010.73.010
PO # 11-0010.73.010
Dept # 11-0010.73.010

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7701 4392 2353
0201

X0 TIXA

32811
FL-US
MCO

32GH4201F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

/templates/components/dotcom_label_contents/WarningsOriginalLabel/en/Folding_warning.html loading...
/templates/components/dotcom_label_contents/TnCDom/us/en/TC_dom.html loading...

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: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-MB	N0077022.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-MB	N0077022.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-MB	N0077022.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-BS	N0077020.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	169	135	50-147
107-02-8	Acrolein	125	135	108	31-154
107-13-1	Acrylonitrile	125	131	105	58-126
71-43-2	Benzene	25	25.8	103	81-122
108-86-1	Bromobenzene	25	26.0	104	80-121
74-97-5	Bromochloromethane	25	26.1	104	76-123
75-27-4	Bromodichloromethane	25	28.3	113	79-123
75-25-2	Bromoform	25	26.4	106	66-123
104-51-8	n-Butylbenzene	25	27.7	111	79-126
135-98-8	sec-Butylbenzene	25	28.2	113	83-133
98-06-6	tert-Butylbenzene	25	29.3	117	80-133
108-90-7	Chlorobenzene	25	27.8	111	82-124
75-00-3	Chloroethane	25	20.4	82	62-144
67-66-3	Chloroform	25	28.0	112	80-124
95-49-8	o-Chlorotoluene	25	28.4	114	81-127
106-43-4	p-Chlorotoluene	25	28.6	114	83-130
110-75-8	2-Chloroethyl vinyl ether	125	112	90	56-122
75-15-0	Carbon disulfide	25	26.8	107	66-148
56-23-5	Carbon tetrachloride	25	31.1	124	76-136
75-34-3	1,1-Dichloroethane	25	26.4	106	81-122
75-35-4	1,1-Dichloroethylene	25	28.2	113	78-137
563-58-6	1,1-Dichloropropene	25	28.8	115	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	27.9	112	64-123
106-93-4	1,2-Dibromoethane	25	26.0	104	75-120
107-06-2	1,2-Dichloroethane	25	29.3	117	75-125
78-87-5	1,2-Dichloropropane	25	25.1	100	76-124
142-28-9	1,3-Dichloropropane	25	25.5	102	80-118
594-20-7	2,2-Dichloropropane	25	31.4	126	74-139
124-48-1	Dibromochloromethane	25	25.9	104	78-122
75-71-8	Dichlorodifluoromethane	25	29.9	120	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.9	104	78-120
10061-01-5	cis-1,3-Dichloropropene	25	27.3	109	75-118
541-73-1	m-Dichlorobenzene	25	28.2	113	84-125
95-50-1	o-Dichlorobenzene	25	28.4	114	82-124
106-46-7	p-Dichlorobenzene	25	25.8	103	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.6	106	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-BS	N0077020.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	28.9	116	80-120
100-41-4	Ethylbenzene	25	26.4	106	81-121
591-78-6	2-Hexanone	125	144	115	61-129
87-68-3	Hexachlorobutadiene	25	29.5	118	75-142
98-82-8	Isopropylbenzene	25	30.1	120	83-132
99-87-6	p-Isopropyltoluene	25	27.5	110	79-130
108-10-1	4-Methyl-2-pentanone	125	125	100	66-122
74-83-9	Methyl bromide	25	23.9	96	59-143
74-87-3	Methyl chloride	25	26.1	104	50-159
74-95-3	Methylene bromide	25	26.7	107	78-119
75-09-2	Methylene chloride	25	24.5	98	69-135
78-93-3	Methyl ethyl ketone	125	128	102	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.4	102	72-117
91-20-3	Naphthalene	25	23.9	96	63-132
103-65-1	n-Propylbenzene	25	27.7	111	82-133
100-42-5	Styrene	25	27.0	108	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	27.3	109	77-122
71-55-6	1,1,1-Trichloroethane	25	30.3	121	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	24.9	100	72-120
79-00-5	1,1,2-Trichloroethane	25	25.6	102	76-119
87-61-6	1,2,3-Trichlorobenzene	25	27.7	111	68-131
96-18-4	1,2,3-Trichloropropane	25	27.4	110	77-120
120-82-1	1,2,4-Trichlorobenzene	25	28.0	112	73-129
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	79-120
108-67-8	1,3,5-Trimethylbenzene	25	26.9	108	79-120
127-18-4	Tetrachloroethylene	25	27.4	110	76-135
108-88-3	Toluene	25	25.4	102	80-120
79-01-6	Trichloroethylene	25	27.0	108	81-126
75-69-4	Trichlorofluoromethane	25	29.5	118	71-156
75-01-4	Vinyl chloride	25	24.2	97	69-159
108-05-4	Vinyl Acetate	125	159	127	43-154
	m,p-Xylene	50	54.1	108	79-126
95-47-6	o-Xylene	25	26.8	107	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3372-BS	N0077020.D	1	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15429-2MS	N0077038.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2MSD	N0077039.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2	N0077029.D	50	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	FA15429-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6250	4000	64	6250	3720	60	7	50-147/21
107-02-8	Acrolein	ND		6250	9970	160*	6250	9820	157*	2	31-154/29
107-13-1	Acrylonitrile	ND		6250	6030	96	6250	5590	89	8	58-126/16
71-43-2	Benzene	124		1250	1310	95	1250	1180	84	10	81-122/14
108-86-1	Bromobenzene	ND		1250	1200	96	1250	1070	86	11	80-121/14
74-97-5	Bromochloromethane	ND		1250	1190	95	1250	1060	85	12	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1270	102	1250	1160	93	9	79-123/19
75-25-2	Bromoform	ND		1250	1070	86	1250	1010	81	6	66-123/21
104-51-8	n-Butylbenzene	ND		1250	1280	102	1250	1130	90	12	79-126/16
135-98-8	sec-Butylbenzene	ND		1250	1310	105	1250	1140	91	14	83-133/16
98-06-6	tert-Butylbenzene	ND		1250	1350	108	1250	1200	96	12	80-133/16
108-90-7	Chlorobenzene	ND		1250	1280	102	1250	1150	92	11	82-124/14
75-00-3	Chloroethane	ND		1250	1170	94	1250	1000	80	16	62-144/20
67-66-3	Chloroform	ND		1250	1310	105	1250	1160	93	12	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1270	102	1250	1130	90	12	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1330	106	1250	1120	90	17*	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		6250	3090	49*	6250	2580	41*	18	56-122/23
75-15-0	Carbon disulfide	ND		1250	1200	96	1250	959	77	22	66-148/23
56-23-5	Carbon tetrachloride	ND		1250	1430	114	1250	1260	101	13	76-136/23
75-34-3	1,1-Dichloroethane	ND		1250	1230	98	1250	1090	87	12	81-122/15
75-35-4	1,1-Dichloroethylene	ND		1250	1320	106	1250	1140	91	15	78-137/18
563-58-6	1,1-Dichloropropene	ND		1250	1340	107	1250	1190	95	12	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1200	96	1250	1090	87	10	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1190	95	1250	1090	87	9	75-120/13
107-06-2	1,2-Dichloroethane	ND		1250	1340	107	1250	1200	96	11	75-125/14
78-87-5	1,2-Dichloropropane	ND		1250	1200	96	1250	1060	85	12	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1170	94	1250	1060	85	10	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1430	114	1250	1240	99	14	74-139/17
124-48-1	Dibromochloromethane	ND		1250	1140	91	1250	1070	86	6	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1560	125	1250	1310	105	17	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1200	96	1250	1040	83	14	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1220	98	1250	1060	85	14	75-118/23
541-73-1	m-Dichlorobenzene	ND		1250	1280	102	1250	1130	90	12	84-125/14
95-50-1	o-Dichlorobenzene	ND		1250	1320	106	1250	1160	93	13	82-124/14
106-46-7	p-Dichlorobenzene	ND		1250	1170	94	1250	1030	82	13	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1240	99	1250	1090	87	13	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15429-2MS	N0077038.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2MSD	N0077039.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2	N0077029.D	50	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Compound	FA15429-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1260	101	1250	1130	90	11	80-120/22
100-41-4	Ethylbenzene	2680		1250	3550	70* [a]	1250	3210	42* [a]	10	81-121/14
591-78-6	2-Hexanone	ND		6250	5500	88	6250	5010	80	9	61-129/18
87-68-3	Hexachlorobutadiene	ND		1250	1330	106	1250	1210	97	9	75-142/19
98-82-8	Isopropylbenzene	75.8		1250	1490	113	1250	1350	102	10	83-132/15
99-87-6	p-Isopropyltoluene	ND		1250	1260	101	1250	1100	88	14	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		6250	5390	86	6250	4950	79	9	66-122/16
74-83-9	Methyl bromide	ND		1250	1220	98	1250	1020	82	18	59-143/19
74-87-3	Methyl chloride	ND		1250	1280	102	1250	1150	92	11	50-159/19
74-95-3	Methylene bromide	ND		1250	1230	98	1250	1080	86	13	78-119/14
75-09-2	Methylene chloride	ND		1250	1170	94	1250	1020	82	14	69-135/16
78-93-3	Methyl ethyl ketone	ND		6250	4950	79	6250	4590	73	8	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1150	92	1250	1040	83	10	72-117/14
91-20-3	Naphthalene	214	J	1250	1400	95	1250	1250	83	11	63-132/25
103-65-1	n-Propylbenzene	221		1250	1510	103	1250	1320	88	13	82-133/15
100-42-5	Styrene	ND		1250	1180	94	1250	1100	88	7	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1240	99	1250	1130	90	9	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		1250	1430	114	1250	1270	102	12	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1150	92	1250	1010	81	13	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		1250	1160	93	1250	1070	86	8	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1270	102	1250	1160	93	9	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1240	99	1250	1090	87	13	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1290	103	1250	1170	94	10	73-129/20
95-63-6	1,2,4-Trimethylbenzene	165		1250	1360	96	1250	1190	82	13	79-120/18
108-67-8	1,3,5-Trimethylbenzene	27.2	J	1250	1250	98	1250	1110	87	12	79-120/19
127-18-4	Tetrachloroethylene	ND		1250	1240	99	1250	1130	90	9	76-135/16
108-88-3	Toluene	361		1250	1510	92	1250	1380	82	9	80-120/14
79-01-6	Trichloroethylene	ND		1250	1240	99	1250	1120	90	10	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1520	122	1250	1320	106	14	71-156/21
75-01-4	Vinyl chloride	ND		1250	1230	98	1250	1100	88	11	69-159/18
108-05-4	Vinyl Acetate	ND		6250	8760	140	6250	7650	122	14	43-154/14
	m,p-Xylene	680		2500	3220	102	2500	2870	88	11	79-126/15
95-47-6	o-Xylene	77.8		1250	1340	101	1250	1220	91	9	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15429-2MS	N0077038.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2MSD	N0077039.D	50	06/09/14	RB	n/a	n/a	VN3372
FA15429-2	N0077029.D	50	06/09/14	RB	n/a	n/a	VN3372

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-5, FA15429-6

CAS No.	Surrogate Recoveries	MS	MSD	FA15429-2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	113%	111%	113%	79-125%
2037-26-5	Toluene-D8	98%	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	101%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = 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: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MB	L0678120.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

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	0.52	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	0.58	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.60	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	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.97	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.55	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	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	0.62	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.64	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.65	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.67	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.81	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.56	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.62	ug/l	
218-01-9	Chrysene	ND	5.0	0.72	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.55	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.58	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.54	ug/l	

Method Blank Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MB	L0678120.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.68	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.50	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.57	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.63	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.90	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.81	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.53	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	0.63	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.6	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.70	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.66	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.63	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	0.53	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.61	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.76	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	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	0.53	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.60	ug/l	
129-00-0	Pyrene	ND	5.0	0.82	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MB	L0678120.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	27%	10-50%
118-79-6	2,4,6-Tribromophenol	77%	33-118%
4165-60-0	Nitrobenzene-d5	75%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-BS	L0678119.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	12.0	12	10-69
95-57-8	2-Chlorophenol	50	28.6	57	52-98
59-50-7	4-Chloro-3-methyl phenol	50	29.9	60	54-103
120-83-2	2,4-Dichlorophenol	50	29.9	60	53-103
105-67-9	2,4-Dimethylphenol	50	29.3	59	43-90
51-28-5	2,4-Dinitrophenol	100	70.3	70	44-112
534-52-1	4,6-Dinitro-o-cresol	100	78.4	78	66-121
95-48-7	2-Methylphenol	50	24.1	48	43-90
	3&4-Methylphenol	100	40.9	41	36-88
88-75-5	2-Nitrophenol	50	31.1	62	53-102
100-02-7	4-Nitrophenol	100	22.2	22	18-62
87-86-5	Pentachlorophenol	100	73.2	73	61-115
108-95-2	Phenol	50	12.3	25	19-56
95-95-4	2,4,5-Trichlorophenol	50	32.8	66	62-109
88-06-2	2,4,6-Trichlorophenol	50	32.4	65	59-107
83-32-9	Acenaphthene	50	32.7	65	61-107
208-96-8	Acenaphthylene	50	32.2	64	60-104
62-53-3	Aniline	50	30.1	60	47-100
120-12-7	Anthracene	50	33.6	67	65-108
92-87-5	Benzidine	50	23.7	47	25-99
56-55-3	Benzo(a)anthracene	50	33.4	67	66-111
50-32-8	Benzo(a)pyrene	50	32.8	66	62-107
205-99-2	Benzo(b)fluoranthene	50	33.6	67	65-114
191-24-2	Benzo(g,h,i)perylene	50	34.0	68	66-116
207-08-9	Benzo(k)fluoranthene	50	34.7	69	65-114
101-55-3	4-Bromophenyl phenyl ether	50	28.0	56*	65-109
85-68-7	Butyl benzyl phthalate	50	35.0	70	65-112
100-51-6	Benzyl Alcohol	50	26.7	53	46-94
91-58-7	2-Chloronaphthalene	50	30.3	61	57-103
106-47-8	4-Chloroaniline	50	35.3	71	49-105
86-74-8	Carbazole	50	36.2	72	59-113
218-01-9	Chrysene	50	35.5	71	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	31.4	63	51-102
111-44-4	bis(2-Chloroethyl)ether	50	32.8	66	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	29.9	60	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	31.6	63	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-BS	L0678119.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	25.7	51	48-97
122-66-7	1,2-Diphenylhydrazine	50	33.7	67	61-110
541-73-1	1,3-Dichlorobenzene	50	25.2	50	45-95
106-46-7	1,4-Dichlorobenzene	50	26.5	53	45-98
121-14-2	2,4-Dinitrotoluene	50	32.9	66	61-110
606-20-2	2,6-Dinitrotoluene	50	33.5	67	63-108
91-94-1	3,3'-Dichlorobenzidine	50	34.7	69	46-117
53-70-3	Dibenzo(a,h)anthracene	50	34.5	69	66-119
132-64-9	Dibenzofuran	50	33.0	66	61-106
84-74-2	Di-n-butyl phthalate	50	34.6	69	65-107
117-84-0	Di-n-octyl phthalate	50	35.6	71	62-118
84-66-2	Diethyl phthalate	50	33.0	66	64-108
131-11-3	Dimethyl phthalate	50	32.7	65	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	36.5	73	61-117
206-44-0	Fluoranthene	50	33.4	67	63-106
86-73-7	Fluorene	50	33.4	67	62-108
118-74-1	Hexachlorobenzene	50	32.9	66	63-108
87-68-3	Hexachlorobutadiene	50	26.8	54	42-102
77-47-4	Hexachlorocyclopentadiene	50	23.3	47	39-102
67-72-1	Hexachloroethane	50	25.5	51	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	31.4	63* [a]	64-119
78-59-1	Isophorone	50	31.2	62	43-87
90-12-0	1-Methylnaphthalene	50	27.3	55	53-102
91-57-6	2-Methylnaphthalene	50	30.1	60	51-102
88-74-4	2-Nitroaniline	50	37.4	75	54-128
99-09-2	3-Nitroaniline	50	37.3	75	56-106
100-01-6	4-Nitroaniline	50	38.8	78	55-120
91-20-3	Naphthalene	50	28.6	57	47-100
98-95-3	Nitrobenzene	50	31.5	63	50-104
62-75-9	N-Nitrosodimethylamine	50	17.3	35	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	32.2	64	52-104
86-30-6	N-Nitrosodiphenylamine	50	34.3	69	64-108
85-01-8	Phenanthrene	50	34.0	68	66-110
129-00-0	Pyrene	50	33.4	67	64-113
110-86-1	Pyridine	50	17.9	36	23-74
120-82-1	1,2,4-Trichlorobenzene	50	26.1	52	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-BS	L0678119.D	1	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	34%	14-67%
4165-62-2	Phenol-d5	22%	10-50%
118-79-6	2,4,6-Tribromophenol	67%	33-118%
4165-60-0	Nitrobenzene-d5	62%	42-108%
321-60-8	2-Fluorobiphenyl	62%	40-106%
1718-51-0	Terphenyl-d14	73%	39-121%

(a) Sporadic marginal failure, within limits in MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MS	L0678127.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
OP51859-MSD	L0678128.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678126.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678131.D	4	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	FA15429-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	81.3	42	192	89.3	46	9	10-69/39
95-57-8	2-Chlorophenol	ND		96.2	55.2	57	96.2	60.3	63	9	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	67.6	70	96.2	72.4	75	7	54-103/23
120-83-2	2,4-Dichlorophenol	ND		96.2	66.0	69	96.2	69.3	72	5	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	68.3	71	96.2	72.5	75	6	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	154	80	192	165	86	7	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	168	87	192	186	97	10	66-121/23
95-48-7	2-Methylphenol	ND		96.2	58.8	61	96.2	64.2	67	9	43-90/28
	3&4-Methylphenol	ND		192	108	56	192	116	60	7	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	70.2	73	96.2	72.1	75	3	53-102/29
100-02-7	4-Nitrophenol	ND		192	78.1	41	192	90.7	47	15	18-62/33
87-86-5	Pentachlorophenol	ND		192	166	86	192	184	96	10	61-115/26
108-95-2	Phenol	ND		96.2	38.1	40	96.2	44.5	46	15	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	72.4	75	96.2	75.3	78	4	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	70.7	74	96.2	74.4	77	5	59-107/23
83-32-9	Acenaphthene	1.5	J	96.2	72.9	74	96.2	76.5	78	5	61-107/22
208-96-8	Acenaphthylene	ND		96.2	68.9	72	96.2	72.2	75	5	60-104/22
62-53-3	Aniline	ND		96.2	55.3	58	96.2	63.8	66	14	47-100/30
120-12-7	Anthracene	ND		96.2	71.4	74	96.2	78.1	81	9	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	73.2	76	96.2	78.2	81	7	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	70.4	73	96.2	75.9	79	8	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	69.4	72	96.2	75.3	78	8	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	69.8	73	96.2	77.3	80	10	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	71.8	75	96.2	77.3	80	7	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	62.2	65	96.2	66.3	69	6	65-109/23
85-68-7	Butyl benzyl phthalate	ND		96.2	78.5	82	96.2	83.0	86	6	65-112/24
100-51-6	Benzyl Alcohol	ND		96.2	67.2	70	96.2	72.6	76	8	46-94/27
91-58-7	2-Chloronaphthalene	ND		96.2	68.2	71	96.2	70.2	73	3	57-103/23
106-47-8	4-Chloroaniline	ND		96.2	67.1	70	96.2	74.1	77	10	49-105/27
86-74-8	Carbazole	ND		96.2	73.1	76	96.2	80.7	84	10	59-113/21
218-01-9	Chrysene	ND		96.2	74.6	78	96.2	80.4	84	7	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	63.4	66	96.2	66.9	70	5	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	74.4	77	96.2	77.2	80	4	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	59.4	62	96.2	62.4	65	5	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	67.4	70	96.2	70.8	74	5	62-105/20
95-50-1	1,2-Dichlorobenzene	ND		96.2	50.1	52	96.2	53.9	56	7	48-97/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MS	L0678127.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
OP51859-MSD	L0678128.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678126.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678131.D	4	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	FA15429-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	ND		96.2	71.6	74	96.2	75.5	79	5	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	62.5	65	96.2	65.4	68	5	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	65.2	68	96.2	70.4	73	8	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		96.2	70.2	73	96.2	74.7	78	6	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	2.3	2*	96.2	77.6	81	188*	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	55.7	58	96.2	61.3	64	10	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	71.6	74	96.2	77.4	80	8	66-119/24
132-64-9	Dibenzofuran	1.0	J	96.2	70.6	72	96.2	73.9	76	5	61-106/21
84-74-2	Di-n-butyl phthalate	ND		96.2	72.3	75	96.2	79.8	83	10	65-107/21
117-84-0	Di-n-octyl phthalate	ND		96.2	81.4	85	96.2	86.9	90	7	62-118/24
84-66-2	Diethyl phthalate	ND		96.2	70.3	73	96.2	74.4	77	6	64-108/21
131-11-3	Dimethyl phthalate	ND		96.2	68.5	71	96.2	72.2	75	5	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	81.6	85	96.2	85.4	89	5	61-117/23
206-44-0	Fluoranthene	ND		96.2	67.3	70	96.2	76.0	79	12	63-106/21
86-73-7	Fluorene	1.3	J	96.2	70.9	72	96.2	75.2	77	6	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	71.7	75	96.2	77.2	80	7	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	65.4	68	96.2	68.4	71	4	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	51.7	54	96.2	50.6	53	2	39-102/29
67-72-1	Hexachloroethane	ND		96.2	68.2	71	96.2	71.2	74	4	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	65.2	68	96.2	72.4	75	10	64-119/24
78-59-1	Isophorone	ND		96.2	69.2	72	96.2	72.1	75	4	43-87/25
90-12-0	1-Methylnaphthalene	63.7		96.2	112	50*	96.2	111	49*	1	53-102/27
91-57-6	2-Methylnaphthalene	22.2		96.2	85.9	66	96.2	87.6	68	2	51-102/26
88-74-4	2-Nitroaniline	ND		96.2	78.1	81	96.2	84.9	88	8	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	64.9	67	96.2	67.9	71	5	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	65.7	68	96.2	71.5	74	8	55-120/24
91-20-3	Naphthalene	215 [b]		96.2	209	-6* [a]	96.2	208	-7* [a]	0	47-100/29
98-95-3	Nitrobenzene	ND		96.2	67.8	70	96.2	71.7	74	6	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	51.0	53	96.2	54.9	57	7	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	68.1	71	96.2	70.7	74	4	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	76.2	79	96.2	81.7	85	7	64-108/23
85-01-8	Phenanthrene	0.72	J	96.2	70.4	72	96.2	76.5	79	8	66-110/21
129-00-0	Pyrene	ND		96.2	77.0	80	96.2	78.3	81	2	64-113/23
110-86-1	Pyridine	ND		96.2	49.9	52	96.2	52.6	55	5	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	62.5	65	96.2	66.3	69	6	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51859-MS	L0678127.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
OP51859-MSD	L0678128.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678126.D	1	06/05/14	MV	06/04/14	OP51859	SL3462
FA15429-2	L0678131.D	4	06/05/14	MV	06/04/14	OP51859	SL3462

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Surrogate Recoveries	MS	MSD	FA15429-2	FA15429-2	Limits
367-12-4	2-Fluorophenol	53%	57%	34%	35%	14-67%
4165-62-2	Phenol-d5	35%	41%	21%	25%	10-50%
118-79-6	2,4,6-Tribromophenol	76%	81%	79%	80%	33-118%
4165-60-0	Nitrobenzene-d5	67%	72%	73%	84%	42-108%
321-60-8	2-Fluorobiphenyl	72%	73%	72%	78%	40-106%
1718-51-0	Terphenyl-d14	85%	84%	80%	83%	39-121%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = 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: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5238-MB	CD128062.D	1	06/03/14	CP	n/a	n/a	GCD5238

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2

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	86%	70-131%
98-08-8	aaa-Trifluorotoluene	89%	69-143%

Method Blank Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5239-MB	CD128095.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-3, FA15429-4

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	86%	70-131%
98-08-8	aaa-Trifluorotoluene	89%	69-143%

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5238-BS	CD128061.D	1	06/03/14	CP	n/a	n/a	GCD5238

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.396	99	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	92%	70-131%
98-08-8	aaa-Trifluorotoluene	102%	69-143%

7.2.1

7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5239-BS	CD128094.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-3, FA15429-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.417	104	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	70-131%
98-08-8	aaa-Trifluorotoluene	103%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15429-2MS	CD128069.D	10	06/03/14	CP	n/a	n/a	GCD5238
FA15429-2MSD	CD128070.D	10	06/03/14	CP	n/a	n/a	GCD5238
FA15429-2	CD128065.D	10	06/03/14	CP	n/a	n/a	GCD5238

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2

CAS No.	Compound	FA15429-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	8.42		4	12.2	95	4	12.2	95	0	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA15429-2	Limits
460-00-4	4-Bromofluorobenzene	103%	99%	98%	70-131%
98-08-8	aaa-Trifluorotoluene	115%	117%	106%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15410-1MS	CD128102.D	1	06/04/14	CP	n/a	n/a	GCD5239
FA15410-1MSD	CD128103.D	1	06/04/14	CP	n/a	n/a	GCD5239
FA15410-1	CD128096.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-3, FA15429-4

CAS No.	Compound	FA15410-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.824		0.4	1.29	117	0.4	1.28	114	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA15410-1	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	89%	70-131%
98-08-8	aaa-Trifluorotoluene	100%	101%	89%	69-143%

* = 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: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-MB	JJ003620.D	1	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.050	0.020	mg/l	
	TPH (> C22-C36)	ND	0.050	0.020	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	50-131%

8.1.1

8

Blank Spike Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-BS	JJ003619.D	1	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.781	78	56-123
	TPH (> C22-C36)	1	0.797	80	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	97%	50-131%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15429
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-MS	JJ003624.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
OP51869-MSD	JJ003625.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
FA15429-2	JJ003623.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15429-1, FA15429-2, FA15429-3, FA15429-4

CAS No.	Compound	FA15429-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	3.96		1.96	7.20	165* [a]	1.96	5.58	83	25	56-123/33
	TPH (> C22-C36)	0.334	J	1.96	2.06	88	1.96	1.78	74	15	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA15429-2	Limits
84-15-1	o-Terphenyl	104%	89%	97%	50-131%

(a) Outside control limits due to high level in sample relative to spike amount.

* = 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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					06/14/14		06/14/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	2	2.3				
Arsenic	10	2	2.4				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	17	17	-9.4	<300	-11	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	-0.20	<15	-0.20	<15
Molybdenum	50	.5	.5				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2.3	2.3				
Silver	10	.65	.77				
Sodium	10000	500	500				
Strontium	10	.4	.4				
Thallium	10	1.5	2				
Tin	50	.7	1				
Titanium	10	.9	1				
Vanadium	50	.5	.5				
Zinc	20	3	3				

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			06/14/14					06/14/14	
Metal	FA15429-2 Original	DUP	RPD	QC Limits	FA15429-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron	24.5	17.3	34.4 (a)	0-20	24.5	25900	26000	99.5	80-120
Lead									
Magnesium									
Manganese	176	175	0.6	0-20	176	681	500	101.0	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	anr								
Zinc									

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	anr					
Iron	24.5	26200	26000	100.7	1.2	20
Lead						
Magnesium						
Manganese	176	690	500	102.8	1.3	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	anr					
Zinc						

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26300	26000	101.2	80-120
Lead	anr			
Magnesium				
Manganese	521	500	104.2	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron	24.5	0.00	100.0(a)	0-10
Lead				
Magnesium				
Manganese	176	178	0.9	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	anr			
Zinc				

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27406
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	Sample ml	Final ml	FA15429-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	24.5	24.01	2978	0.2	150	3000	98.5	80-120
Lead										
Magnesium										
Manganese	9.8	10	176.2	172.676	224.2	0.2	2.5	50	103.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27406: FA15429-1, FA15429-2, FA15429-3, FA15429-4, FA15429-1F, FA15429-3F, FA15429-4F

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					06/14/14		06/14/14		06/14/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15						
Antimony	6.0	2	2.3						
Arsenic	10	2	2.4						
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5						
Calcium	1000	50	50						
Chromium	10	1	2						
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	17	17						
Lead	5.0	1.1	1.1						
Magnesium	5000	50	56						
Manganese	15	.5	1	-0.10	<15	0.10	<15	0.0	<15
Molybdenum	50	.5	.5						
Nickel	40	.5	.5						
Potassium	10000	200	200						
Selenium	10	2.3	2.3						
Silver	10	.65	.77						
Sodium	10000	500	500						
Strontium	10	.4	.4						
Thallium	10	1.5	2						
Tin	50	.7	1						
Titanium	10	.9	1						
Vanadium	50	.5	.5						
Zinc	20	3	3						

Associated samples MP27407: FA15429-2F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			06/14/14					06/14/14	
Metal	FA15429-2F Original	DUP	RPD	QC Limits	FA15429-2F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron									
Lead	anr								
Magnesium									
Manganese	172	177	2.9	0-20	172	747	500	115.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP27407: FA15429-2F

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	anr					
Magnesium						
Manganese	172	767	500	119.0	2.6	20
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP27407: FA15429-2F

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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese	533	500	106.6	80-120
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27407: FA15429-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	FA15429-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese	172	176	2.2	0-10
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27407: FA15429-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/14/14

Metal	Sample ml	Final ml	FA15429-2F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese	9.8	10	171.7	168.266	232.4	0.2	2.5	50	128.3*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27407: FA15429-2F

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
(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: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
BOD, 5 Day	GP24105/GN61728	2.0	0.0	mg/l	198	198	100.2	85-115%
Chemical Oxygen Demand	GP24131/GN61808	20	0.0	mg/l	750	742	99.0	87-122%
Chemical Oxygen Demand	GP24132/GN61809	20	0.0	mg/l	50.0	54.7	109.0	87-122%
Iron, Ferrous	GN61682	0.10	0.0	mg/l	0.50	0.052	105.4	82-115%
Nitrogen, Ammonia	GP24140/GN61834	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP24088/GN61666	0.10	0.0	mg/l	2.5	2.41	96.4	90-110%
Nitrogen, Nitrite	GP24088/GN61666	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Total Kjeldahl	GP24122/GN61785	0.53	0.0	mg/l	2.63	2.80	106.7	90-110%
Solids, Total Dissolved	GN61663	100	0.0	mg/l				
Sulfate	GP24088/GN61666	2.0	0.0	mg/l	50	48.2	96.4	90-110%

Associated Samples:
Batch GN61663: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GN61682: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24088: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24105: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24122: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24131: FA15429-1, FA15429-2, FA15429-4
Batch GP24132: FA15429-3
Batch GP24140: FA15429-1, FA15429-2, FA15429-3, FA15429-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP24105/GN61728	FA15429-2	mg/l	73.3	74.1	1.1	0-30%
Iron, Ferrous	GN61682	FA15429-3	mg/l	0.030 U	0.0	15.3	0-31%
Solids, Total Dissolved	GN61663	FA15429-2	mg/l	3120	3190	2.2	0-5%

Associated Samples:
Batch GN61663: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GN61682: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24105: FA15429-1, FA15429-2, FA15429-3, FA15429-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP24131/GN61808	FA15429-2	mg/l	165	750	784	82.5*(a)	87-122%
Chemical Oxygen Demand	GP24132/GN61809	FA15553-1	mg/l	7.5	50.0	62.1	109.0	87-122%
Nitrogen, Ammonia	GP24140/GN61834	FA15429-2	mg/l	0.69	2.5	3.1	96.4	90-110%
Nitrogen, Nitrate	GP24088/GN61666	FA15429-1	mg/l	0.50 U	2.5	1.5	60.0N(a)	90-110%
Nitrogen, Nitrite	GP24088/GN61666	FA15429-1	mg/l	0.50 U	2.5	2.2	88.0N(a)	90-110%
Nitrogen, Total Kjeldahl	GP24122/GN61785	FA15429-2	mg/l	1.5	2.63	5.4	148.6N(a)	90-110%
Sulfate	GP24088/GN61696	FA15429-1	mg/l	1820	50	1800	-40.0(b)	90-110%

Associated Samples:
Batch GP24088: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24122: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24131: FA15429-1, FA15429-2, FA15429-4
Batch GP24132: FA15429-3
Batch GP24140: FA15429-1, FA15429-2, FA15429-3, FA15429-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15429
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chemical Oxygen Demand	GP24131/GN61808	FA15429-2	mg/l	165	750	825	5.1	26%
Chemical Oxygen Demand	GP24132/GN61809	FA15553-1	mg/l	7.5	50.0	59.6	4.1	26%
Nitrogen, Ammonia	GP24140/GN61834	FA15429-2	mg/l	0.69	2.5	3.2	3.2	20%
Nitrogen, Nitrate	GP24088/GN61666	FA15429-1	mg/l	0.50 U	2.5	1.7	12.5	20%
Nitrogen, Nitrite	GP24088/GN61666	FA15429-1	mg/l	0.50 U	2.5	2.0	9.5	20%
Nitrogen, Total Kjeldahl	GP24122/GN61785	FA15429-2	mg/l	1.5	2.63	5.4	0.0	20%
Sulfate	GP24088/GN61696	FA15429-1	mg/l	1820	50	1800	0.0	20%

Associated Samples:
Batch GP24088: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24122: FA15429-1, FA15429-2, FA15429-3, FA15429-4
Batch GP24131: FA15429-1, FA15429-2, FA15429-4
Batch GP24132: FA15429-3
Batch GP24140: FA15429-1, FA15429-2, FA15429-3, FA15429-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/17/14

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA15479

Sampling Date: 06/02/14

Report to:

Nation View
1641 Vandergrift Road Building 1266
HAFB, NM 88330
tlucero@nationview.net; Brian.parrish@nationview.net;
Kfuller@nationview.net
ATTN: Tony Lucero

Total number of pages in report: **86**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program 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: FA15479

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA15479-1	06/02/14	13:45	LFB	06/03/14	AQ	Ground Water	SS17-MW23
FA15479-1F	06/02/14	13:45	LFB	06/03/14	AQ	Groundwater Filtered	SS17-MW23
FA15479-2	06/02/14	11:30	LFB	06/03/14	AQ	Ground Water	SS17-MW22
FA15479-2F	06/02/14	11:30	LFB	06/03/14	AQ	Groundwater Filtered	SS17-MW22
FA15479-3	06/02/14	11:30	LFB	06/03/14	AQ	Ground Water	SS17-MW22A
FA15479-3F	06/02/14	11:30	LFB	06/03/14	AQ	Groundwater Filtered	SS17-MW22A
FA15479-4	06/02/14	00:00	LFB	06/03/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA15479
Account: Nation View
Project: Holloman AFB; SS17
Collected: 06/02/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA15479-1	**SS17-MW23**					
Benzene		0.78 J	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		10.5	1.0	0.28	ug/l	SW846 8260B
n-Propylbenzene		0.29 J	1.0	0.24	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2.1	2.0	0.24	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.86 J	2.0	0.20	ug/l	SW846 8260B
Toluene		0.94 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		2.4	2.0	0.48	ug/l	SW846 8260B
o-Xylene		1.2	1.0	0.20	ug/l	SW846 8260B
Naphthalene		0.66 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.142	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.32	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.438	0.048	0.019	mg/l	SW846 8015C
Iron		555	300	17	ug/l	SW846 6010C
Manganese		1780	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		47.2	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		0.48	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.072 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.40	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.1	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		4630	500	50	mg/l	SM2540 C-11
Sulfate		2900	100	30	mg/l	EPA 300/SW846 9056A
FA15479-1F	**SS17-MW23**					
Manganese		1740	15	1.0	ug/l	SW846 6010C
FA15479-2	**SS17-MW22**					
Benzene		0.44 J	1.0	0.24	ug/l	SW846 8260B
1,2-Dichloroethane		3.8	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		1.2	1.0	0.28	ug/l	SW846 8260B
n-Propylbenzene		0.31 J	1.0	0.24	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2.0	2.0	0.24	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.78 J	2.0	0.20	ug/l	SW846 8260B
Toluene		0.85 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		2.4	2.0	0.48	ug/l	SW846 8260B
o-Xylene		1.0	1.0	0.20	ug/l	SW846 8260B
Naphthalene		0.61 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.0769 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.257	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.192	0.048	0.019	mg/l	SW846 8015C
Iron		5060	300	17	ug/l	SW846 6010C
Manganese		5090	15	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: FA15479
Account: Nation View
Project: Holloman AFB; SS17
Collected: 06/02/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Chemical Oxygen Demand	49.7	20	5.3	mg/l	SM5220 C-11
Iron, Ferrous [b]	5.7	1.0	0.31	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.23	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	2.0	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	7240	500	50	mg/l	SM2540 C-11
Sulfate	3830	100	30	mg/l	EPA 300/SW846 9056A
FA15479-2F SS17-MW22					
Manganese	5090	15	1.0	ug/l	SW846 6010C
FA15479-3 SS17-MW22A					
Benzene	0.43 J	1.0	0.24	ug/l	SW846 8260B
1,2-Dichloroethane	4.0	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene	1.2	1.0	0.28	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	2.0	2.0	0.24	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	0.76 J	2.0	0.20	ug/l	SW846 8260B
Toluene	0.83 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene	2.4	2.0	0.48	ug/l	SW846 8260B
o-Xylene	0.93 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene	0.51 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)	0.0775 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.241	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)	0.189	0.048	0.019	mg/l	SW846 8015C
Iron	5000	300	17	ug/l	SW846 6010C
Manganese	5100	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	59.6	20	5.3	mg/l	SM5220 C-11
Iron, Ferrous [b]	5.2	1.0	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.47	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.7	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	7280	500	50	mg/l	SM2540 C-11
Sulfate	3900	200	60	mg/l	EPA 300/SW846 9056A
FA15479-3F SS17-MW22A					
Manganese	5050	15	1.0	ug/l	SW846 6010C

FA15479-4 TRIP BLANK

No hits reported in this sample.

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077202.D	1	06/16/14	RB	n/a	n/a	VN3379
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.78	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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-chloropropan [a]	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	10.5	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.29	1.0	0.24	ug/l	J
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.1	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.86	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.94	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	2.4	2.0	0.48	ug/l	
95-47-6	o-Xylene	1.2	1.0	0.20	ug/l	

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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678199.D	1	06/09/14	MV	06/05/14	OP51877	SL3464
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	0.49	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.2	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	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.93	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	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	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.68	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	ug/l	

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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.86	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.51	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.60	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	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.72	ug/l	
91-20-3	Naphthalene	0.66	4.8	0.48	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	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	0.51	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.57	ug/l	
129-00-0	Pyrene	ND	4.8	0.78	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	71%		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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128107.D	1	06/04/14	CP	n/a	n/a	GCD5239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.142	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		70-131%
98-08-8	aaa-Trifluorotoluene	90%		69-143%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003630.D	1	06/10/14	SJL	06/05/14	OP51869	GJJ139
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)	1.32	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.438	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		50-131%

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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	555	300	17	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1780	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	SS17-MW23		
Lab Sample ID:	FA15479-1	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	< 4.0	4.0	4.0	mg/l	2	06/04/14 09:00	KC	SM5210 B-11
Chemical Oxygen Demand	47.2	20	5.3	mg/l	1	06/10/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	06/04/14 09:30	LE	SM4500S2- F-11
Iron, Ferric [a]	0.48	0.40	0.047	mg/l	1	06/16/14 13:48	LM	SM3500FE B-11
Iron, Ferrous [b]	0.072 J	0.10	0.030	mg/l	1	06/03/14 10:20	KC	SM3500FE B-11
Nitrogen, Ammonia	0.40	0.10	0.030	mg/l	1	06/11/14 13:55	VK	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	06/03/14 21:07	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.1	0.53	0.17	mg/l	1	06/09/14 14:03	DM	EPA 351.2
Solids, Total Dissolved	4630	500	50	mg/l	5	06/04/14 12:10	KC	SM2540 C-11
Sulfate	2900	100	30	mg/l	50	06/04/14 21:14	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW23		
Lab Sample ID:	FA15479-1F	**Date Sampled:**	06/02/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	1740	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077203.D	1	06/16/14	RB	n/a	n/a	VN3379
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.44	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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-chloropropan [a]	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	3.8	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.31	1.0	0.24	ug/l	J
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.0	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.78	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.85	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	2.4	2.0	0.48	ug/l	
95-47-6	o-Xylene	1.0	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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678200.D	1	06/09/14	MV	06/05/14	OP51877	SL3464
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	0.49	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.2	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	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.93	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	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	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.68	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	ug/l	

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.86	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.51	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.60	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	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.72	ug/l	
91-20-3	Naphthalene	0.61	4.8	0.48	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	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	0.51	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.57	ug/l	
129-00-0	Pyrene	ND	4.8	0.78	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	72%		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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128108.D	1	06/04/14	CP	n/a	n/a	GCD5239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0769	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		70-131%
98-08-8	aaa-Trifluorotoluene	94%		69-143%

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003638.D	1	06/11/14	SJL	06/05/14	OP51869	GJJ140
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)	0.257	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.192	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		50-131%

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5060	300	17	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5090	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	SS17-MW22		
Lab Sample ID:	FA15479-2	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	< 4.0	4.0	4.0	mg/l	2	06/04/14 09:00	KC	SM5210 B-11
Chemical Oxygen Demand	49.7	20	5.3	mg/l	1	06/10/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	06/04/14 09:30	LE	SM4500S2- F-11
Iron, Ferric [a]	0.33 U	1.3	0.33	mg/l	1	06/16/14 13:53	LM	SM3500FE B-11
Iron, Ferrous [b]	5.7	1.0	0.31	mg/l	10	06/03/14 10:20	KC	SM3500FE B-11
Nitrogen, Ammonia	0.23	0.10	0.030	mg/l	1	06/11/14 13:56	VK	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	06/03/14 21:24	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.0	0.53	0.17	mg/l	1	06/09/14 14:04	DM	EPA 351.2
Solids, Total Dissolved	7240	500	50	mg/l	5	06/04/14 12:10	KC	SM2540 C-11
Sulfate	3830	100	30	mg/l	50	06/03/14 21:24	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22		
Lab Sample ID:	FA15479-2F	**Date Sampled:**	06/02/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5090	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0077204.D	1	06/16/14	RB	n/a	n/a	VN3379
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	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.43	1.0	0.24	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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-chloropropan [a]	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	4.0	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.0	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.76	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.83	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	2.4	2.0	0.48	ug/l	
95-47-6	o-Xylene	0.93	1.0	0.20	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678201.D	1	06/10/14	MV	06/05/14	OP51877	SL3464
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	0.49	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	0.55	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.2	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	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.57	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.93	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.53	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	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.59	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.61	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.62	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.68	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.77	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.64	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	0.77	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.53	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.59	ug/l	
218-01-9	Chrysene	ND	4.8	0.69	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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.52	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.55	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.51	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.60	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.86	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.51	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	0.95	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.5	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.67	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.60	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	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.58	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.72	ug/l	
91-20-3	Naphthalene	0.51	4.8	0.48	ug/l	J
98-95-3	Nitrobenzene	ND	4.8	0.48	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	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	0.51	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.57	ug/l	
129-00-0	Pyrene	ND	4.8	0.78	ug/l	
110-86-1	Pyridine	ND	9.5	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	75%		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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD128109.D	1	06/04/14	CP	n/a	n/a	GCD5239
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0775	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		70-131%
98-08-8	aaa-Trifluorotoluene	95%		69-143%

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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003639.D	1	06/11/14	SJL	06/05/14	OP51869	GJJ140
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)	0.241	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.189	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		50-131%

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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5000	300	17	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5100	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	SS17-MW22A		
Lab Sample ID:	FA15479-3	**Date Sampled:**	06/02/14
Matrix:	AQ - Ground Water	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	< 4.0	4.0	4.0	mg/l	2	06/04/14 09:00	KC	SM5210 B-11
Chemical Oxygen Demand	59.6	20	5.3	mg/l	1	06/10/14 13:20	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	06/04/14 09:30	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	1.3	0.047	mg/l	1	06/16/14 14:06	LM	SM3500FE B-11
Iron, Ferrous [b]	5.2	1.0	0.030	mg/l	10	06/03/14 10:20	KC	SM3500FE B-11
Nitrogen, Ammonia	0.47	0.10	0.030	mg/l	1	06/12/14 13:47	VK	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	06/03/14 21:41	CH	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.7	0.53	0.17	mg/l	1	06/09/14 14:09	DM	EPA 351.2
Solids, Total Dissolved	7280	500	50	mg/l	5	06/04/14 12:10	KC	SM2540 C-11
Sulfate	3900	200	60	mg/l	100	06/03/14 21:41	CH	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Dilution required 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:	SS17-MW22A		
Lab Sample ID:	FA15479-3F	**Date Sampled:**	06/02/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	06/03/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5050	15	1.0	ug/l	1	06/16/14	06/16/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11672
(2) Prep QC Batch: MP27409

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:	FA15479-4	**Date Sampled:**	06/02/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N0077205.D	1	06/16/14	RB	n/a	n/a	VN3379
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 [b]	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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-chloropropan [b]	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

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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:	TRIP BLANK		
Lab Sample ID:	FA15479-4	**Date Sampled:**	06/02/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

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	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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:	TRIP BLANK		
Lab Sample ID:	FA15479-4	**Date Sampled:**	06/02/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/03/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) 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:

- Chain of Custody

FA15479

NATIONVIEW

Page 1 of 1

Project No: 11.0019

COC Number(1): 06022014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB, New Mexico

Project/Site Name: SS-17 Q4 Sampling Event

Client Name: Holloman AFB

Collected by: T Lucero / K Fuller / 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	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	FE2/FE3, SO4, TDS, NO3O	Total Mn	Dissolved Mn	BOD	H2S	AMN, TKN, COD					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)			
SS17-MW23	SS17-MW23	2-Jun-14	1345	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								3
SS17-MW22	SS17-MW22	2-Jun-14	1130	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								1
SS17-MW22A	SS17-MW22A	2-Jun-14	1130	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]								2
TRIP BLANK	Field QC			-	TB		AQ	1	[1]																	1,2,3
				-																						
				-																						
				-																						

COMMENTS:

Send results to: tlucero@nationview.net, jhymer@nationview.net

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	6/2/2014		1. FX		
2. FX			2. [signature]	06/03/14	9:30
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Airbill Number: 770165487605

Airbill Number: 770165487866 / 770165487980

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

4.0
4.2
3.3

4.1
4

FA15479: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15479 CLIENT: AFB PROJECT: SS-17

DATE/TIME RECEIVED: 06/03/14 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7701 6548 7605

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

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 4.2 4.4 3.5
- [ ] CORRECTED TEMPS: 4.0 4.2 3.3

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 3
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] 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
- [x] 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
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: Macro bubble Headspace sample # 1 Gro 1 vial.

TECHNICIAN SIGNATURE/DATE [signature] 06/03/14 REVIEWER SIGNATURE/DATE [signature] 06-03-14

RS 04/14 receipt confirmation 041514.xls

4.1

4

FA15479: Chain of Custody

Page 2 of 3

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1258 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14101420076306

Ship Date: 02JUN14
ActWgt: 40.0 LB
CAD: 106020931/INET3490

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

Ref # 11-0019.73.010
Invoice # 11-0016.73.010
PO # 11-0016.73.010
Dept # 11-0016.73.010

1 of 3

TRK# 7701 6548 7866
0201

MASTER

XH TIXA

TUE - 03 JUN 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

5202GA/ABDF220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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FA15479: 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: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-MB	N0077194.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	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	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-MB	N0077194.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	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	0.57	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	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-MB	N0077194.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-BS	N0077192.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	206	165*	50-147
107-02-8	Acrolein	125	63.6	51	31-154
107-13-1	Acrylonitrile	125	147	118	58-126
71-43-2	Benzene	25	25.3	101	81-122
108-86-1	Bromobenzene	25	24.7	99	80-121
74-97-5	Bromochloromethane	25	24.8	99	76-123
75-27-4	Bromodichloromethane	25	27.2	109	79-123
75-25-2	Bromoform	25	27.2	109	66-123
104-51-8	n-Butylbenzene	25	26.4	106	79-126
135-98-8	sec-Butylbenzene	25	26.5	106	83-133
98-06-6	tert-Butylbenzene	25	27.5	110	80-133
108-90-7	Chlorobenzene	25	26.4	106	82-124
75-00-3	Chloroethane	25	22.5	90	62-144
67-66-3	Chloroform	25	27.5	110	80-124
95-49-8	o-Chlorotoluene	25	25.7	103	81-127
106-43-4	p-Chlorotoluene	25	26.4	106	83-130
110-75-8	2-Chloroethyl vinyl ether	125	137	110	56-122
75-15-0	Carbon disulfide	25	23.4	94	66-148
56-23-5	Carbon tetrachloride	25	30.5	122	76-136
75-34-3	1,1-Dichloroethane	25	26.4	106	81-122
75-35-4	1,1-Dichloroethylene	25	30.7	123	78-137
563-58-6	1,1-Dichloropropene	25	29.0	116	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	30.9	124*	64-123
106-93-4	1,2-Dibromoethane	25	26.2	105	75-120
107-06-2	1,2-Dichloroethane	25	29.0	116	75-125
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
142-28-9	1,3-Dichloropropane	25	25.1	100	80-118
594-20-7	2,2-Dichloropropane	25	30.7	123	74-139
124-48-1	Dibromochloromethane	25	25.5	102	78-122
75-71-8	Dichlorodifluoromethane	25	31.2	125	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	78-120
10061-01-5	cis-1,3-Dichloropropene	25	26.8	107	75-118
541-73-1	m-Dichlorobenzene	25	26.3	105	84-125
95-50-1	o-Dichlorobenzene	25	27.0	108	82-124
106-46-7	p-Dichlorobenzene	25	24.4	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-BS	N0077192.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	28.5	114	80-120
100-41-4	Ethylbenzene	25	25.5	102	81-121
591-78-6	2-Hexanone	125	158	126	61-129
87-68-3	Hexachlorobutadiene	25	29.3	117	75-142
98-82-8	Isopropylbenzene	25	28.9	116	83-132
99-87-6	p-Isopropyltoluene	25	25.8	103	79-130
108-10-1	4-Methyl-2-pentanone	125	126	101	66-122
74-83-9	Methyl bromide	25	24.8	99	59-143
74-87-3	Methyl chloride	25	26.5	106	50-159
74-95-3	Methylene bromide	25	26.7	107	78-119
75-09-2	Methylene chloride	25	24.1	96	69-135
78-93-3	Methyl ethyl ketone	125	152	122	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.8	103	72-117
91-20-3	Naphthalene	25	26.0	104	63-132
103-65-1	n-Propylbenzene	25	25.9	104	82-133
100-42-5	Styrene	25	25.5	102	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.9	104	77-122
71-55-6	1,1,1-Trichloroethane	25	30.0	120	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	25.4	102	72-120
79-00-5	1,1,2-Trichloroethane	25	24.4	98	76-119
87-61-6	1,2,3-Trichlorobenzene	25	28.0	112	68-131
96-18-4	1,2,3-Trichloropropane	25	28.5	114	77-120
120-82-1	1,2,4-Trichlorobenzene	25	27.9	112	73-129
95-63-6	1,2,4-Trimethylbenzene	25	23.8	95	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	79-120
127-18-4	Tetrachloroethylene	25	27.0	108	76-135
108-88-3	Toluene	25	24.5	98	80-120
79-01-6	Trichloroethylene	25	26.6	106	81-126
75-69-4	Trichlorofluoromethane	25	30.8	123	71-156
75-01-4	Vinyl chloride	25	25.5	102	69-159
108-05-4	Vinyl Acetate	125	167	134	43-154
	m,p-Xylene	50	51.6	103	79-126
95-47-6	o-Xylene	25	25.8	103	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3379-BS	N0077192.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	113%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15495-1MS	N0077198.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1MSD	N0077199.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1	N0077197.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	FA15495-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25	U	125	91.1	73	125	89.0	71	2	50-147/21
107-02-8	Acrolein	20	U	125	116	93	125	133	106	14	31-154/29
107-13-1	Acrylonitrile	10	U	125	137	110	125	130	104	5	58-126/16
71-43-2	Benzene	1.0	U	25	26.0	104	25	22.9	92	13	81-122/14
108-86-1	Bromobenzene	1.0	U	25	25.2	101	25	22.3	89	12	80-121/14
74-97-5	Bromochloromethane	1.0	U	25	25.0	100	25	22.9	92	9	76-123/14
75-27-4	Bromodichloromethane	1.0	U	25	27.6	110	25	25.0	100	10	79-123/19
75-25-2	Bromoform	1.0	U	25	23.8	95	25	21.9	88	8	66-123/21
104-51-8	n-Butylbenzene	1.0	U	25	26.2	105	25	22.6	90	15	79-126/16
135-98-8	sec-Butylbenzene	1.0	U	25	26.6	106	25	22.9	92	15	83-133/16
98-06-6	tert-Butylbenzene	1.0	U	25	28.0	112	25	24.0	96	15	80-133/16
108-90-7	Chlorobenzene	1.0	U	25	26.8	107	25	23.6	94	13	82-124/14
75-00-3	Chloroethane	2.0	U	25	24.8	99	25	20.5	82	19	62-144/20
67-66-3	Chloroform	1.0	U	25	28.0	112	25	24.6	98	13	80-124/15
95-49-8	o-Chlorotoluene	1.0	U	25	26.8	107	25	23.3	93	14	81-127/15
106-43-4	p-Chlorotoluene	1.0	U	25	26.6	106	25	23.3	93	13	83-130/15
110-75-8	2-Chloroethyl vinyl ether	5.0	U	125	ND	0*	125	ND	0*	nc	56-122/23
75-15-0	Carbon disulfide	2.0	U	25	20.1	80	25	17.3	69	15	66-148/23
56-23-5	Carbon tetrachloride	1.0	U	25	32.8	131	25	27.0	108	19	76-136/23
75-34-3	1,1-Dichloroethane	1.0	U	25	26.3	105	25	23.2	93	13	81-122/15
75-35-4	1,1-Dichloroethylene	1.0	U	25	31.1	124	25	27.0	108	14	78-137/18
563-58-6	1,1-Dichloropropene	1.0	U	25	29.3	117	25	25.0	100	16	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	27.1	108	25	23.9	96	13	64-123/18
106-93-4	1,2-Dibromoethane	1.0	U	25	25.2	101	25	23.6	94	7	75-120/13
107-06-2	1,2-Dichloroethane	1.0	U	25	29.7	119	25	27.2	109	9	75-125/14
78-87-5	1,2-Dichloropropane	1.0	U	25	25.2	101	25	22.8	91	10	76-124/14
142-28-9	1,3-Dichloropropane	1.0	U	25	24.9	100	25	22.4	90	11	80-118/13
594-20-7	2,2-Dichloropropane	1.0	U	25	32.4	130	25	27.8	111	15	74-139/17
124-48-1	Dibromochloromethane	1.0	U	25	24.6	98	25	22.3	89	10	78-122/19
75-71-8	Dichlorodifluoromethane	2.0	U	25	31.8	127	25	27.2	109	16	42-167/19
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	26.0	104	25	23.0	92	12	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	24.4	98	25	22.6	90	8	75-118/23
541-73-1	m-Dichlorobenzene	1.0	U	25	26.5	106	25	23.6	94	12	84-125/14
95-50-1	o-Dichlorobenzene	1.0	U	25	26.9	108	25	24.0	96	11	82-124/14
106-46-7	p-Dichlorobenzene	1.0	U	25	24.5	98	25	21.7	87	12	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	27.6	110	25	23.7	95	15	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15495-1MS	N0077198.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1MSD	N0077199.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1	N0077197.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Compound	FA15495-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0	U	25	27.1	108	25	24.6	98	10	80-120/22
100-41-4	Ethylbenzene	1.0	U	25	25.7	103	25	22.6	90	13	81-121/14
591-78-6	2-Hexanone	10	U	125	111	89	125	104	83	7	61-129/18
87-68-3	Hexachlorobutadiene	2.0	U	25	28.1	112	25	24.2	97	15	75-142/19
98-82-8	Isopropylbenzene	1.0	U	25	29.3	117	25	25.0	100	16*	83-132/15
99-87-6	p-Isopropyltoluene	1.0	U	25	25.8	103	25	22.1	88	15	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0	U	125	109	87	125	102	82	7	66-122/16
74-83-9	Methyl bromide	2.0	U	25	26.2	105	25	22.6	90	15	59-143/19
74-87-3	Methyl chloride	2.0	U	25	26.4	106	25	23.3	93	12	50-159/19
74-95-3	Methylene bromide	2.0	U	25	26.9	108	25	24.7	99	9	78-119/14
75-09-2	Methylene chloride	5.0	U	25	25.4	102	25	22.6	90	12	69-135/16
78-93-3	Methyl ethyl ketone	5.0	U	125	108	86	125	99.9	80	8	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	25.2	101	25	23.4	94	7	72-117/14
91-20-3	Naphthalene	5.0	U	25	22.3	89	25	20.5	82	8	63-132/25
103-65-1	n-Propylbenzene	1.0	U	25	26.2	105	25	22.2	89	17*	82-133/15
100-42-5	Styrene	1.0	U	25	25.3	101	25	22.7	91	11	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	26.3	105	25	23.3	93	12	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0	U	25	31.2	125	25	26.3	105	17*	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	24.4	98	25	22.2	89	9	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0	U	25	24.1	96	25	22.3	89	8	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	25.8	103	25	23.5	94	9	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0	U	25	27.0	108	25	24.9	100	8	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	26.5	106	25	23.2	93	13	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	23.9	96	25	20.7	83	14	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	25.7	103	25	22.1	88	15	79-120/19
127-18-4	Tetrachloroethylene	1.0	U	25	27.5	110	25	23.3	93	17*	76-135/16
108-88-3	Toluene	1.0	U	25	24.7	99	25	21.7	87	13	80-120/14
79-01-6	Trichloroethylene	4.2		25	31.0	107	25	26.4	89	16*	81-126/15
75-69-4	Trichlorofluoromethane	2.0	U	25	33.6	134	25	28.3	113	17	71-156/21
75-01-4	Vinyl chloride	1.0	U	25	25.5	102	25	22.2	89	14	69-159/18
108-05-4	Vinyl Acetate	10	U	125	183	146	125	164	131	11	43-154/14
	m,p-Xylene	2.0	U	50	52.3	105	50	45.5	91	14	79-126/15
95-47-6	o-Xylene	1.0	U	25	25.9	104	25	22.7	91	13	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15495-1MS	N0077198.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1MSD	N0077199.D	1	06/16/14	RB	n/a	n/a	VN3379
FA15495-1	N0077197.D	1	06/16/14	RB	n/a	n/a	VN3379

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA15479-1, FA15479-2, FA15479-3, FA15479-4

CAS No.	Surrogate Recoveries	MS	MSD	FA15495-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	113%	112%	79-125%
2037-26-5	Toluene-D8	96%	95%	97%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	100%	83-118%

* = 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: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MB	X035155.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

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	0.52	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	0.58	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.60	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	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.97	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.55	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	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	0.62	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.64	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.65	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.72	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.67	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.81	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.56	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.62	ug/l	
218-01-9	Chrysene	ND	5.0	0.72	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.55	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.58	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.54	ug/l	

Method Blank Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MB	X035155.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.68	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.50	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.57	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.63	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.90	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.81	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.53	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	0.63	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.6	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.70	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.66	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.63	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	0.53	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.61	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.76	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	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	0.53	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.60	ug/l	
129-00-0	Pyrene	ND	5.0	0.82	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MB	X035155.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	23%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	33-118%
4165-60-0	Nitrobenzene-d5	85%	42-108%
321-60-8	2-Fluorobiphenyl	84%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-BS	X035154.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	15.4	15	10-69
95-57-8	2-Chlorophenol	50	33.0	66	52-98
59-50-7	4-Chloro-3-methyl phenol	50	32.2	64	54-103
120-83-2	2,4-Dichlorophenol	50	33.7	67	53-103
105-67-9	2,4-Dimethylphenol	50	32.1	64	43-90
51-28-5	2,4-Dinitrophenol	100	87.9	88	44-112
534-52-1	4,6-Dinitro-o-cresol	100	94.0	94	66-121
95-48-7	2-Methylphenol	50	27.9	56	43-90
	3&4-Methylphenol	100	45.8	46	36-88
88-75-5	2-Nitrophenol	50	35.7	71	53-102
100-02-7	4-Nitrophenol	100	23.9	24	18-62
87-86-5	Pentachlorophenol	100	93.5	94	61-115
108-95-2	Phenol	50	14.8	30	19-56
95-95-4	2,4,5-Trichlorophenol	50	41.3	83	62-109
88-06-2	2,4,6-Trichlorophenol	50	39.0	78	59-107
83-32-9	Acenaphthene	50	39.6	79	61-107
208-96-8	Acenaphthylene	50	39.0	78	60-104
62-53-3	Aniline	50	30.9	62	47-100
120-12-7	Anthracene	50	39.7	79	65-108
92-87-5	Benzidine	50	17.7	35	25-99
56-55-3	Benzo(a)anthracene	50	39.3	79	66-111
50-32-8	Benzo(a)pyrene	50	38.2	76	62-107
205-99-2	Benzo(b)fluoranthene	50	37.5	75	65-114
191-24-2	Benzo(g,h,i)perylene	50	41.9	84	66-116
207-08-9	Benzo(k)fluoranthene	50	41.0	82	65-114
101-55-3	4-Bromophenyl phenyl ether	50	33.9	68	65-109
85-68-7	Butyl benzyl phthalate	50	41.9	84	65-112
100-51-6	Benzyl Alcohol	50	28.8	58	46-94
91-58-7	2-Chloronaphthalene	50	37.6	75	57-103
106-47-8	4-Chloroaniline	50	35.0	70	49-105
86-74-8	Carbazole	50	40.7	81	59-113
218-01-9	Chrysene	50	41.4	83	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	36.1	72	51-102
111-44-4	bis(2-Chloroethyl)ether	50	33.6	67	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	38.2	76	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	36.7	73	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-BS	X035154.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	32.0	64	48-97
122-66-7	1,2-Diphenylhydrazine	50	43.9	88	61-110
541-73-1	1,3-Dichlorobenzene	50	32.7	65	45-95
106-46-7	1,4-Dichlorobenzene	50	34.2	68	45-98
121-14-2	2,4-Dinitrotoluene	50	37.4	75	61-110
606-20-2	2,6-Dinitrotoluene	50	38.7	77	63-108
91-94-1	3,3'-Dichlorobenzidine	50	39.5	79	46-117
53-70-3	Dibenzo(a,h)anthracene	50	42.3	85	66-119
132-64-9	Dibenzofuran	50	38.5	77	61-106
84-74-2	Di-n-butyl phthalate	50	39.9	80	65-107
117-84-0	Di-n-octyl phthalate	50	41.0	82	62-118
84-66-2	Diethyl phthalate	50	39.1	78	64-108
131-11-3	Dimethyl phthalate	50	37.4	75	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.3	85	61-117
206-44-0	Fluoranthene	50	38.2	76	63-106
86-73-7	Fluorene	50	39.4	79	62-108
118-74-1	Hexachlorobenzene	50	38.7	77	63-108
87-68-3	Hexachlorobutadiene	50	33.3	67	42-102
77-47-4	Hexachlorocyclopentadiene	50	28.6	57	39-102
67-72-1	Hexachloroethane	50	33.7	67	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.1	76	64-119
78-59-1	Isophorone	50	34.7	69	43-87
90-12-0	1-Methylnaphthalene	50	31.6	63	53-102
91-57-6	2-Methylnaphthalene	50	33.7	67	51-102
88-74-4	2-Nitroaniline	50	43.4	87	54-128
99-09-2	3-Nitroaniline	50	39.1	78	56-106
100-01-6	4-Nitroaniline	50	38.9	78	55-120
91-20-3	Naphthalene	50	33.6	67	47-100
98-95-3	Nitrobenzene	50	36.4	73	50-104
62-75-9	N-Nitrosodimethylamine	50	20.5	41	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	38.3	77	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.1	82	64-108
85-01-8	Phenanthrene	50	39.8	80	66-110
129-00-0	Pyrene	50	39.6	79	64-113
110-86-1	Pyridine	50	19.6	39	23-74
120-82-1	1,2,4-Trichlorobenzene	50	32.1	64	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-BS	X035154.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	37%	14-67%
4165-62-2	Phenol-d5	23%	10-50%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	77%	40-106%
1718-51-0	Terphenyl-d14	85%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MS	X035168.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
OP51877-MSD	X035169.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
FA15480-2	X035167.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	FA15480-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		190	65.7	34	190	64.6	34	2	10-69/39
95-57-8	2-Chlorophenol	ND		95.2	69.0	72	95.2	68.9	72	0	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		95.2	70.0	74	95.2	65.9	69	6	54-103/23
120-83-2	2,4-Dichlorophenol	ND		95.2	68.8	72	95.2	66.7	70	3	53-103/26
105-67-9	2,4-Dimethylphenol	ND		95.2	65.3	69	95.2	62.7	66	4	43-90/27
51-28-5	2,4-Dinitrophenol	ND		190	173	91	190	159	83	8	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		190	176	92	190	177	93	1	66-121/23
95-48-7	2-Methylphenol	ND		95.2	63.1	66	95.2	63.7	67	1	43-90/28
	3&4-Methylphenol	ND		190	110	58	190	114	60	4	36-88/28
88-75-5	2-Nitrophenol	ND		95.2	68.1	72	95.2	67.4	71	1	53-102/29
100-02-7	4-Nitrophenol	ND		190	72.7	38	190	82.0	43	12	18-62/33
87-86-5	Pentachlorophenol	ND		190	188	99	190	180	95	4	61-115/26
108-95-2	Phenol	ND		95.2	45.6	48	95.2	44.9	47	2	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		95.2	83.5	88	95.2	81.8	86	2	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		95.2	79.4	83	95.2	77.2	81	3	59-107/23
83-32-9	Acenaphthene	ND		95.2	81.1	85	95.2	78.1	82	4	61-107/22
208-96-8	Acenaphthylene	ND		95.2	79.3	83	95.2	77.2	81	3	60-104/22
62-53-3	Aniline	ND		95.2	71.1	75	95.2	68.8	72	3	47-100/30
120-12-7	Anthracene	ND		95.2	79.2	83	95.2	77.4	81	2	65-108/20
92-87-5	Benzidine	ND		95.2	42.2	44	95.2	38.8	41	8	25-99/31
56-55-3	Benzo(a)anthracene	ND		95.2	78.8	83	95.2	77.9	82	1	66-111/22
50-32-8	Benzo(a)pyrene	ND		95.2	77.2	81	95.2	75.4	79	2	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		95.2	77.7	82	95.2	75.5	79	3	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		95.2	82.2	86	95.2	79.1	83	4	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		95.2	84.0	88	95.2	81.2	85	3	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		95.2	66.6	70	95.2	68.5	72	3	65-109/23
85-68-7	Butyl benzyl phthalate	ND		95.2	79.8	84	95.2	81.7	86	2	65-112/24
100-51-6	Benzyl Alcohol	ND		95.2	66.3	70	95.2	66.1	69	0	46-94/27
91-58-7	2-Chloronaphthalene	ND		95.2	77.0	81	95.2	76.2	80	1	57-103/23
106-47-8	4-Chloroaniline	ND		95.2	73.4	77	95.2	71.1	75	3	49-105/27
86-74-8	Carbazole	ND		95.2	82.9	87	95.2	80.0	84	4	59-113/21
218-01-9	Chrysene	ND		95.2	83.3	87	95.2	82.1	86	1	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		95.2	69.0	72	95.2	68.0	71	1	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		95.2	62.0	65	95.2	60.0	63	3	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		95.2	68.1	72	95.2	65.3	69	4	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		95.2	76.7	81	95.2	73.1	77	5	62-105/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MS	X035168.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
OP51877-MSD	X035169.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
FA15480-2	X035167.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	FA15480-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		95.2	66.7	70	95.2	66.2	70	1	48-97/24
122-66-7	1,2-Diphenylhydrazine	ND		95.2	80.1	84	95.2	83.4	88	4	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		95.2	68.3	72	95.2	68.3	72	0	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		95.2	70.8	74	95.2	71.4	75	1	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		95.2	80.1	84	95.2	72.7	76	10	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		95.2	81.0	85	95.2	75.1	79	8	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		95.2	81.3	85	95.2	78.3	82	4	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		95.2	83.5	88	95.2	77.7	82	7	66-119/24
132-64-9	Dibenzofuran	ND		95.2	80.0	84	95.2	77.8	82	3	61-106/21
84-74-2	Di-n-butyl phthalate	ND		95.2	79.2	83	95.2	77.0	81	3	65-107/21
117-84-0	Di-n-octyl phthalate	ND		95.2	77.8	82	95.2	81.4	85	5	62-118/24
84-66-2	Diethyl phthalate	ND		95.2	80.8	85	95.2	75.2	79	7	64-108/21
131-11-3	Dimethyl phthalate	ND		95.2	78.0	82	95.2	72.8	76	7	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		95.2	80.5	85	95.2	82.1	86	2	61-117/23
206-44-0	Fluoranthene	ND		95.2	79.3	83	95.2	73.6	77	7	63-106/21
86-73-7	Fluorene	ND		95.2	81.9	86	95.2	76.6	80	7	62-108/20
118-74-1	Hexachlorobenzene	ND		95.2	76.9	81	95.2	77.9	82	1	63-108/22
87-68-3	Hexachlorobutadiene	ND		95.2	70.6	74	95.2	72.5	76	3	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		95.2	55.3	58	95.2	57.8	61	4	39-102/29
67-72-1	Hexachloroethane	ND		95.2	69.8	73	95.2	70.4	74	1	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		95.2	75.6	79	95.2	72.0	76	5	64-119/24
78-59-1	Isophorone	ND		95.2	67.2	71	95.2	64.8	68	4	43-87/25
90-12-0	1-Methylnaphthalene	ND		95.2	65.4	69	95.2	62.3	65	5	53-102/27
91-57-6	2-Methylnaphthalene	ND		95.2	70.6	74	95.2	68.7	72	3	51-102/26
88-74-4	2-Nitroaniline	ND		95.2	83.6	88	95.2	80.2	84	4	54-128/24
99-09-2	3-Nitroaniline	ND		95.2	84.4	89	95.2	77.3	81	9	56-106/27
100-01-6	4-Nitroaniline	ND		95.2	87.6	92	95.2	76.3	80	14	55-120/24
91-20-3	Naphthalene	ND		95.2	69.1	73	95.2	67.7	71	2	47-100/29
98-95-3	Nitrobenzene	ND		95.2	68.9	72	95.2	67.9	71	1	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		95.2	49.5	52	95.2	56.3	59	13	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		95.2	74.4	78	95.2	69.1	73	7	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		95.2	80.2	84	95.2	81.8	86	2	64-108/23
85-01-8	Phenanthrene	ND		95.2	78.6	83	95.2	76.8	81	2	66-110/21
129-00-0	Pyrene	ND		95.2	75.0	79	95.2	79.8	84	6	64-113/23
110-86-1	Pyridine	ND		95.2	47.1	49	95.2	53.2	56	12	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		95.2	66.6	70	95.2	66.7	70	0	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51877-MS	X035168.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
OP51877-MSD	X035169.D	1	06/06/14	MV	06/05/14	OP51877	SX1646
FA15480-2	X035167.D	1	06/06/14	MV	06/05/14	OP51877	SX1646

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA15479-1, FA15479-2, FA15479-3

CAS No.	Surrogate Recoveries	MS	MSD	FA15480-2	Limits
367-12-4	2-Fluorophenol	48%	59%	36%	14-67%
4165-62-2	Phenol-d5	33%	43%	22%	10-50%
118-79-6	2,4,6-Tribromophenol	86%	88%	87%	33-118%
4165-60-0	Nitrobenzene-d5	70%	71%	79%	42-108%
321-60-8	2-Fluorobiphenyl	83%	83%	81%	40-106%
1718-51-0	Terphenyl-d14	87%	91%	89%	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: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5239-MB	CD128095.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

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	86%	70-131%
98-08-8	aaa-Trifluorotoluene	89%	69-143%

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5239-BS	CD128094.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.417	104	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	70-131%
98-08-8	aaa-Trifluorotoluene	103%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA15410-1MS	CD128102.D	1	06/04/14	CP	n/a	n/a	GCD5239
FA15410-1MSD	CD128103.D	1	06/04/14	CP	n/a	n/a	GCD5239
FA15410-1	CD128096.D	1	06/04/14	CP	n/a	n/a	GCD5239

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	FA15410-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.824		0.4	1.29	117	0.4	1.28	114	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA15410-1	Limits
460-00-4	4-Bromofluorobenzene	93%	92%	89%	70-131%
98-08-8	aaa-Trifluorotoluene	100%	101%	89%	69-143%

* = 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: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-MB	JJ003620.D	1	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.050	0.020	mg/l	
	TPH (> C22-C36)	ND	0.050	0.020	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	50-131%

Blank Spike Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-BS	JJ003619.D	1	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.781	78	56-123
	TPH (> C22-C36)	1	0.797	80	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	97%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA15479
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51869-MS	JJ003624.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
OP51869-MSD	JJ003625.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139
FA15429-2	JJ003623.D	10	06/10/14	SJL	06/05/14	OP51869	GJJ139

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA15479-1, FA15479-2, FA15479-3

CAS No.	Compound	FA15429-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	3.96		1.96	7.20	165* [a]	1.96	5.58	83	25	56-123/33
	TPH (> C22-C36)	0.334	J	1.96	2.06	88	1.96	1.78	74	15	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA15429-2	Limits
84-15-1	o-Terphenyl	104%	89%	97%	50-131%

(a) Outside control limits due to high level in sample relative to spike amount.

* = 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: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					06/16/14		06/16/14		06/16/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15						
Antimony	6.0	2	2.3						
Arsenic	10	2	2.4						
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5						
Calcium	1000	50	50						
Chromium	10	1	2						
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	17	17	3.4	<300	-0.80	<300	0.90	<300
Lead	5.0	1.1	1.1						
Magnesium	5000	50	56						
Manganese	15	.5	1	-0.10	<15	0.0	<15	0.0	<15
Molybdenum	50	.5	.5						
Nickel	40	.5	.5						
Potassium	10000	200	200						
Selenium	10	2.3	2.3						
Silver	10	.65	.77						
Sodium	10000	500	500						
Strontium	10	.4	.4						
Thallium	10	1.5	2						
Tin	50	.7	1						
Titanium	10	.9	1						
Vanadium	50	.5	.5						
Zinc	20	3	3						

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

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: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			06/16/14					06/16/14	
Metal	FA15480-1 Original	DUP	RPD	QC Limits	FA15480-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	250	251	0.4	0-20	250	27000	26000	102.9	80-120
Lead	anr								
Magnesium	anr								
Manganese	8.4	8.6	2.4	0-20	8.4	522	500	102.7	80-120
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

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: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/16/14

Metal	FA15480-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	250	27000	26000	102.9	0.0	20
Lead	anr					
Magnesium	anr					
Manganese	8.4	525	500	103.3	0.6	20
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

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: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/16/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	27200	26000	104.6	80-120
Lead	anr			
Magnesium	anr			
Manganese	525	500	105.0	80-120
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/16/14

Metal	FA15480-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	250	231	7.5	0-10
Lead	anr			
Magnesium	anr			
Manganese	8.40	8.30	1.2	0-10
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27409
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/16/14

Metal	Sample ml	Final ml	FA15480-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	249.5	244.51	3313	0.2	150	3000	102.3	80-120
Lead										
Magnesium										
Manganese	9.8	10	8.4	8.232	63.1	0.2	2.5	50	109.7	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27409: FA15479-1, FA15479-2, FA15479-3, FA15479-1F, FA15479-2F, FA15479-3F

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

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: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
BOD, 5 Day	GP24128/GN61789	2.0	0.0	mg/l	198	207	104.5	85-115%
Chemical Oxygen Demand	GP24132/GN61809	20	0.0	mg/l	50.0	54.7	109.0	87-122%
Iron, Ferrous	GN61689	0.10	0.0	mg/l	0.500	0.54	107.4	82-115%
Nitrogen, Ammonia	GP24140/GN61834	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Ammonia	GP24150/GN61856	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP24102/GN61725	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Total Kjeldahl	GP24122/GN61785	0.53	0.0	mg/l	2.63	2.80	106.7	90-110%
Solids, Total Dissolved	GN61733	100	0.0	mg/l				
Sulfate	GP24102/GN61725	2.0	0.0	mg/l	50	48.4	96.8	90-110%

Associated Samples:
Batch GN61689: FA15479-1, FA15479-2, FA15479-3
Batch GN61712: FA15479-1, FA15479-2, FA15479-3
Batch GN61733: FA15479-1, FA15479-2, FA15479-3
Batch GP24102: FA15479-1, FA15479-2, FA15479-3
Batch GP24122: FA15479-1, FA15479-2, FA15479-3
Batch GP24128: FA15479-1, FA15479-2, FA15479-3
Batch GP24132: FA15479-1, FA15479-2, FA15479-3
Batch GP24140: FA15479-1, FA15479-2
Batch GP24150: FA15479-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP24128/GN61789	FA15479-1	mg/l	0.0	0.0	4.7	0-30%
Iron, Ferrous	GN61689	FA15466-1	mg/l	0.092	0.092	0.0	0-31%
Solids, Total Dissolved	GN61733	FA15479-3	mg/l	7280	7150	1.8	0-5%

Associated Samples:
Batch GN61689: FA15479-1, FA15479-2, FA15479-3
Batch GN61733: FA15479-1, FA15479-2, FA15479-3
Batch GP24128: FA15479-1, FA15479-2, FA15479-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chemical Oxygen Demand	GP24132/GN61809	FA15553-1	mg/l	7.5	50.0	62.1	109.0	87-122%
Nitrogen, Ammonia	GP24140/GN61834	FA15429-2	mg/l	0.69	2.5	3.1	96.4	90-110%
Nitrogen, Ammonia	GP24150/GN61856	FA15648-1	mg/l	24.5	2.5	28.1	144.0(a)	90-110%
Nitrogen, Nitrate	GP24102/GN61725	FA15479-1	mg/l	1.3 U	2.5	1.4	56.0N(b)	90-110%
Nitrogen, Total Kjeldahl	GP24122/GN61785	FA15429-2	mg/l	1.5	2.63	5.4	148.6N(b)	90-110%
Sulfate	GP24102/GN61753	FA15479-1	mg/l	2900	50	2790	-220.0(a)	90-110%

Associated Samples:
Batch GP24102: FA15479-1, FA15479-2, FA15479-3
Batch GP24122: FA15479-1, FA15479-2, FA15479-3
Batch GP24132: FA15479-1, FA15479-2, FA15479-3
Batch GP24140: FA15479-1, FA15479-2
Batch GP24150: FA15479-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(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 DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA15479
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chemical Oxygen Demand	GP24132/GN61809	FA15553-1	mg/l	7.5	50.0	59.6	4.1	26%
Nitrogen, Ammonia	GP24140/GN61834	FA15429-2	mg/l	0.69	2.5	3.2	3.2	20%
Nitrogen, Ammonia	GP24150/GN61856	FA15648-1	mg/l	24.5	2.5	28.3	0.7	20%
Nitrogen, Nitrate	GP24102/GN61725	FA15479-1	mg/l	1.3 U	2.5	1.3	7.4	20%
Nitrogen, Total Kjeldahl	GP24122/GN61785	FA15429-2	mg/l	1.5	2.63	5.4	0.0	20%
Sulfate	GP24102/GN61753	FA15479-1	mg/l	2900	50	2790	0.0	20%

Associated Samples:
Batch GP24102: FA15479-1, FA15479-2, FA15479-3
Batch GP24122: FA15479-1, FA15479-2, FA15479-3
Batch GP24132: FA15479-1, FA15479-2, FA15479-3
Batch GP24140: FA15479-1, FA15479-2
Batch GP24150: FA15479-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Sample Summary

Nation View

Job No: FA17017

Holloman AFB; SS17
Project No: 11-0019.73.010

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA17017-1	07/29/14	08:00	LWTL	07/30/14	SO	Soil	SS17-SB301-8
FA17017-2	07/29/14	08:10	LWTL	07/30/14	SO	Soil	SS17-SB301-8-A
FA17017-3	07/29/14	08:50	LWTL	07/30/14	SO	Soil	SS17-SB302-8
FA17017-4	07/29/14	09:10	LWTL	07/30/14	SO	Soil	SS17-SB303-8
FA17017-5	07/29/14	09:30	LWTL	07/30/14	SO	Soil	SS17-SB304-10
FA17017-6	07/29/14	10:00	LWTL	07/30/14	SO	Soil	SS17-SB305-8
FA17017-7	07/29/14	10:25	LWTL	07/30/14	SO	Soil	SS17-SB306-10
FA17017-8	07/29/14	00:00	LWTL	07/30/14	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0086846.D	1	07/30/14	AD	n/a	n/a	VH3303
Run #2	G0094360.D	1	07/31/14	AD	n/a	n/a	VG3454

	Initial Weight	Methanol Aliquot
Run #1	6.30 g	10.0 ul
Run #2	6.30 g	5.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	35000	10000	ug/kg	
107-02-8	Acrolein	ND	17000	7500	ug/kg	
107-13-1	Acrylonitrile	ND	17000	5400	ug/kg	
71-43-2	Benzene	839	3500	690	ug/kg	J
108-86-1	Bromobenzene	ND	3500	750	ug/kg	
74-97-5	Bromochloromethane	ND	3500	1300	ug/kg	
75-27-4	Bromodichloromethane	ND	3500	690	ug/kg	
75-25-2	Bromoform	ND	3500	750	ug/kg	
104-51-8	n-Butylbenzene	8610	3500	690	ug/kg	
135-98-8	sec-Butylbenzene	4640	3500	690	ug/kg	
98-06-6	tert-Butylbenzene	ND	3500	690	ug/kg	
108-90-7	Chlorobenzene	ND	3500	690	ug/kg	
75-00-3	Chloroethane	ND	3500	1600	ug/kg	
67-66-3	Chloroform	ND	3500	780	ug/kg	
95-49-8	o-Chlorotoluene	ND	3500	690	ug/kg	
106-43-4	p-Chlorotoluene	ND	3500	690	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	17000	6900	ug/kg	
75-15-0	Carbon disulfide	ND	3500	690	ug/kg	
56-23-5	Carbon tetrachloride	ND	3500	960	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3500	690	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3500	690	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3500	770	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3500	1500	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3500	1200	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3500	690	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3500	690	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3500	690	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3500	970	ug/kg	
124-48-1	Dibromochloromethane	ND	3500	690	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3500	870	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3500	690	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3500	690	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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	3500	690	ug/kg	
95-50-1	o-Dichlorobenzene	ND	3500	690	ug/kg	
106-46-7	p-Dichlorobenzene	ND	3500	770	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3500	930	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3500	690	ug/kg	
100-41-4	Ethylbenzene	163000 [a]	6900	1400	ug/kg	
591-78-6	2-Hexanone	ND	17000	3400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3500	700	ug/kg	
110-54-3	Hexane	4630	3500	1200	ug/kg	
98-82-8	Isopropylbenzene	17300	3500	690	ug/kg	
99-87-6	p-Isopropyltoluene	2000	3500	690	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	17000	3500	ug/kg	
74-83-9	Methyl bromide	ND	3500	1300	ug/kg	
74-87-3	Methyl chloride	ND	3500	1400	ug/kg	
74-95-3	Methylene bromide	ND	3500	790	ug/kg	
75-09-2	Methylene chloride	ND	6900	2800	ug/kg	
78-93-3	Methyl ethyl ketone	ND	17000	5200	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3500	690	ug/kg	
91-20-3	Naphthalene	49100	3500	1400	ug/kg	
103-65-1	n-Propylbenzene	62900	3500	690	ug/kg	
100-42-5	Styrene	ND	3500	690	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3500	730	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3500	690	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3500	970	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3500	1100	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3500	830	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3500	1300	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3500	790	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	237000 [a]	6900	1400	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	64300	3500	690	ug/kg	
127-18-4	Tetrachloroethylene	ND	3500	870	ug/kg	
108-88-3	Toluene	23600	3500	690	ug/kg	
79-01-6	Trichloroethylene	ND	3500	700	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3500	690	ug/kg	
75-01-4	Vinyl chloride	ND	3500	700	ug/kg	
108-05-4	Vinyl Acetate	ND	17000	5500	ug/kg	
	m,p-Xylene	115000	6900	1100	ug/kg	
95-47-6	o-Xylene	107000	3500	740	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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	99%	75-124%
2037-26-5	Toluene-D8	93%	92%	75-126%
460-00-4	4-Bromofluorobenzene	92%	99%	71-133%
17060-07-0	1,2-Dichloroethane-D4	94%	102%	72-135%

(a) Result is from Run# 2

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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013832.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	220	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	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	24	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	220	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	44	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	180	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	28	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	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	124	220	22	ug/kg	J
50-32-8	Benzo(a)pyrene	58.3	220	22	ug/kg	J
205-99-2	Benzo(b)fluoranthene	76.4	220	22	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	22.9	220	22	ug/kg	J
207-08-9	Benzo(k)fluoranthene	55.8	220	24	ug/kg	J
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	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	26	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
86-74-8	Carbazole	ND	220	22	ug/kg	
218-01-9	Chrysene	77.5	220	22	ug/kg	J

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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	25	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	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	44	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	44	ug/kg	
84-66-2	Diethyl phthalate	ND	440	44	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	44	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	44	ug/kg	
206-44-0	Fluoranthene	48.6	220	22	ug/kg	J
86-73-7	Fluorene	27.0	220	22	ug/kg	J
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	22	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	220	22	ug/kg	J
78-59-1	Isophorone	ND	220	22	ug/kg	
90-12-0	1-Methylnaphthalene	1410	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	167	220	22	ug/kg	J
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	316	220	22	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	26	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	220	ug/kg	
85-01-8	Phenanthrene	51.3	220	22	ug/kg	J
129-00-0	Pyrene	95.8	220	22	ug/kg	J
110-86-1	Pyridine	ND	440	44	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	74%		41-100%
118-79-6	2,4,6-Tribromophenol	81%		42-108%
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	75%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008115.D	10	08/05/14	AH	n/a	n/a	GUU402
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.30 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	4650	690	350	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		56-149%
98-08-8	aaa-Trifluorotoluene	96%		66-132%

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:	SS17-SB301-8		
Lab Sample ID:	FA17017-1	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	75.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004410.D	5	08/12/14	SJL	08/06/14	OP52604	GJJ170
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	436	42	25	mg/kg	
	TPH (> C22-C36)	ND	42	25	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		56-122%

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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094342.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2	G0094361.D	1	07/31/14	AD	n/a	n/a	VG3454

	Initial Weight	Methanol Aliquot
Run #1	5.87 g	100 ul
Run #2	5.87 g	5.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3800	1100	ug/kg	
107-02-8	Acrolein	ND	1900	820	ug/kg	
107-13-1	Acrylonitrile	ND	1900	590	ug/kg	
71-43-2	Benzene	1180	380	76	ug/kg	
108-86-1	Bromobenzene	ND	380	83	ug/kg	
74-97-5	Bromochloromethane	ND	380	150	ug/kg	
75-27-4	Bromodichloromethane	ND	380	76	ug/kg	
75-25-2	Bromoform	ND	380	82	ug/kg	
104-51-8	n-Butylbenzene	8130	380	76	ug/kg	
135-98-8	sec-Butylbenzene	4880	380	76	ug/kg	
98-06-6	tert-Butylbenzene	ND	380	76	ug/kg	
108-90-7	Chlorobenzene	ND	380	76	ug/kg	
75-00-3	Chloroethane	ND	380	170	ug/kg	
67-66-3	Chloroform	ND	380	86	ug/kg	
95-49-8	o-Chlorotoluene	ND	380	76	ug/kg	
106-43-4	p-Chlorotoluene	ND	380	76	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1900	760	ug/kg	
75-15-0	Carbon disulfide	ND	380	76	ug/kg	
56-23-5	Carbon tetrachloride	ND	380	110	ug/kg	
75-34-3	1,1-Dichloroethane	ND	380	76	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	380	76	ug/kg	
563-58-6	1,1-Dichloropropene	ND	380	84	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	380	160	ug/kg	
106-93-4	1,2-Dibromoethane	ND	380	140	ug/kg	
107-06-2	1,2-Dichloroethane	ND	380	76	ug/kg	
78-87-5	1,2-Dichloropropane	ND	380	76	ug/kg	
142-28-9	1,3-Dichloropropane	ND	380	76	ug/kg	
594-20-7	2,2-Dichloropropane	ND	380	110	ug/kg	
124-48-1	Dibromochloromethane	ND	380	76	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	380	96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	380	76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	380	76	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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	380	76	ug/kg	
95-50-1	o-Dichlorobenzene	ND	380	76	ug/kg	
106-46-7	p-Dichlorobenzene	ND	380	85	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	380	100	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	380	76	ug/kg	
100-41-4	Ethylbenzene	127000 [a]	7600	1500	ug/kg	
591-78-6	2-Hexanone	ND	1900	370	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	77	ug/kg	
110-54-3	Hexane	5590	380	130	ug/kg	
98-82-8	Isopropylbenzene	14300 [a]	7600	1500	ug/kg	
99-87-6	p-Isopropyltoluene	2030	380	76	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	1900	380	ug/kg	
74-83-9	Methyl bromide	ND	380	140	ug/kg	
74-87-3	Methyl chloride	ND	380	150	ug/kg	
74-95-3	Methylene bromide	ND	380	87	ug/kg	
75-09-2	Methylene chloride	ND	760	300	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1900	570	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	380	76	ug/kg	
91-20-3	Naphthalene	34600 [a]	7600	3000	ug/kg	
103-65-1	n-Propylbenzene	49100 [a]	7600	1500	ug/kg	
100-42-5	Styrene	ND	380	76	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	380	80	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	380	76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	380	110	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	380	120	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	380	91	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	380	140	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	87	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	171000 [a]	7600	1500	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	54600 [a]	7600	1500	ug/kg	
127-18-4	Tetrachloroethylene	ND	380	96	ug/kg	
108-88-3	Toluene	25100 [a]	7600	1500	ug/kg	
79-01-6	Trichloroethylene	ND	380	77	ug/kg	
75-69-4	Trichlorofluoromethane	ND	380	76	ug/kg	
75-01-4	Vinyl chloride	ND	380	77	ug/kg	
108-05-4	Vinyl Acetate	ND	1900	610	ug/kg	
	m,p-Xylene	97700 [a]	15000	2400	ug/kg	
95-47-6	o-Xylene	86600 [a]	7600	1600	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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	77%	98%	75-124%
2037-26-5	Toluene-D8	101%	96%	75-126%
460-00-4	4-Bromofluorobenzene	99%	95%	71-133%
17060-07-0	1,2-Dichloroethane-D4	86%	96%	72-135%

(a) Result is from Run# 2

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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0678816.D	1	08/04/14	MV	08/01/14	OP52543	SL3493
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	220	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	23	ug/kg	
105-67-9	2,4-Dimethylphenol	47.3	220	25	ug/kg	J
51-28-5	2,4-Dinitrophenol	ND	1100	220	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	45	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	180	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	28	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	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	27.9	220	22	ug/kg	J
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	24	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	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	27	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
86-74-8	Carbazole	ND	220	22	ug/kg	
218-01-9	Chrysene	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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	25	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	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	45	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	45	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	45	ug/kg	
206-44-0	Fluoranthene	29.4	220	22	ug/kg	J
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	22	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	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	
90-12-0	1-Methylnaphthalene	1250	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	1300	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	1070	220	22	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	26	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	34.7	220	22	ug/kg	J
129-00-0	Pyrene	35.1	220	22	ug/kg	J
110-86-1	Pyridine	ND	450	45	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	65%		41-100%
118-79-6	2,4,6-Tribromophenol	66%		42-108%
4165-60-0	Nitrobenzene-d5	68%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	72%		45-119%

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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008118.D	10	08/05/14	AH	n/a	n/a	GUU402
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.87 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	4100	760	380	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		56-149%
98-08-8	aaa-Trifluorotoluene	93%		66-132%

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:	SS17-SB301-8-A		
Lab Sample ID:	FA17017-2	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.6
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004428.D	5	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	290	42	25	mg/kg	
	TPH (> C22-C36)	ND	42	25	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		56-122%

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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094344.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2	G0094343.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #3 [a]	G0094336.D	1	07/30/14	AD	n/a	n/a	VG3453

	Initial Weight	Methanol Aliquot
Run #1	7.93 g	1.0 ul
Run #2	7.93 g	10.0 ul
Run #3	7.93 g	100 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	280000	85000	ug/kg	
107-02-8	Acrolein	ND	140000	61000	ug/kg	
107-13-1	Acrylonitrile	ND	140000	44000	ug/kg	
71-43-2	Benzene	176000	28000	5700	ug/kg	
108-86-1	Bromobenzene	ND	28000	6200	ug/kg	
74-97-5	Bromochloromethane	ND	28000	11000	ug/kg	
75-27-4	Bromodichloromethane	ND	28000	5700	ug/kg	
75-25-2	Bromoform	ND	28000	6100	ug/kg	
104-51-8	n-Butylbenzene	15000 [b]	2800	570	ug/kg	
135-98-8	sec-Butylbenzene	6720 [b]	2800	570	ug/kg	
98-06-6	tert-Butylbenzene	ND	28000	5700	ug/kg	
108-90-7	Chlorobenzene	ND	28000	5700	ug/kg	
75-00-3	Chloroethane	ND	28000	13000	ug/kg	
67-66-3	Chloroform	ND	28000	6400	ug/kg	
95-49-8	o-Chlorotoluene	ND	28000	5700	ug/kg	
106-43-4	p-Chlorotoluene	ND	28000	5700	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	140000	57000	ug/kg	
75-15-0	Carbon disulfide	ND	28000	5700	ug/kg	
56-23-5	Carbon tetrachloride	ND	28000	7900	ug/kg	
75-34-3	1,1-Dichloroethane	ND	28000	5700	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	28000	5700	ug/kg	
563-58-6	1,1-Dichloropropene	ND	28000	6300	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	28000	12000	ug/kg	
106-93-4	1,2-Dibromoethane	ND	28000	10000	ug/kg	
107-06-2	1,2-Dichloroethane	ND	28000	5700	ug/kg	
78-87-5	1,2-Dichloropropane	ND	28000	5700	ug/kg	
142-28-9	1,3-Dichloropropane	ND	28000	5700	ug/kg	
594-20-7	2,2-Dichloropropane	ND	28000	8000	ug/kg	
124-48-1	Dibromochloromethane	ND	28000	5700	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	28000	7100	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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	28000	5700	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	28000	5700	ug/kg	
541-73-1	m-Dichlorobenzene	ND	28000	5700	ug/kg	
95-50-1	o-Dichlorobenzene	ND	28000	5700	ug/kg	
106-46-7	p-Dichlorobenzene	ND	28000	6300	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	28000	7600	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	28000	5700	ug/kg	
100-41-4	Ethylbenzene	329000	28000	5700	ug/kg	
591-78-6	2-Hexanone	ND	140000	28000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	28000	5700	ug/kg	
110-54-3	Hexane	440000	28000	9600	ug/kg	
98-82-8	Isopropylbenzene	19800 [b]	2800	570	ug/kg	
99-87-6	p-Isopropyltoluene	ND	28000	5700	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	140000	28000	ug/kg	
74-83-9	Methyl bromide	ND	28000	11000	ug/kg	
74-87-3	Methyl chloride	ND	28000	11000	ug/kg	
74-95-3	Methylene bromide	ND	28000	6500	ug/kg	
75-09-2	Methylene chloride	ND	57000	23000	ug/kg	
78-93-3	Methyl ethyl ketone	ND	140000	42000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	28000	5700	ug/kg	
91-20-3	Naphthalene	67400	28000	11000	ug/kg	
103-65-1	n-Propylbenzene	95400	28000	5700	ug/kg	
100-42-5	Styrene	ND	28000	5700	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	28000	5900	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	28000	5700	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	28000	8000	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	28000	9100	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	28000	6800	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	28000	11000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	28000	6500	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	406000	28000	5700	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	133000	28000	5700	ug/kg	
127-18-4	Tetrachloroethylene	ND	28000	7100	ug/kg	
108-88-3	Toluene	1000000	28000	5700	ug/kg	
79-01-6	Trichloroethylene	ND	28000	5800	ug/kg	
75-69-4	Trichlorofluoromethane	ND	28000	5700	ug/kg	
75-01-4	Vinyl chloride	ND	28000	5800	ug/kg	
108-05-4	Vinyl Acetate	ND	140000	45000	ug/kg	
	m,p-Xylene	956000	57000	9000	ug/kg	
95-47-6	o-Xylene	368000	28000	6100	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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	90%	83%	49%	75-124%
2037-26-5	Toluene-D8	94%	97%	103%	75-126%
460-00-4	4-Bromofluorobenzene	99%	98%	100%	71-133%
17060-07-0	1,2-Dichloroethane-D4	91%	90%	98%	72-135%

(a) Confirmation run for internal standard areas.
(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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013833.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2	T013834.D	4	08/04/14	MV	07/31/14	OP52529	ST655

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	210	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	22	ug/kg	
105-67-9	2,4-Dimethylphenol	146	210	24	ug/kg	J
51-28-5	2,4-Dinitrophenol	ND	1100	210	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	367	210	43	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	170	ug/kg	
108-95-2	Phenol	425	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	32.4	210	27	ug/kg	J
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
62-53-3	Aniline	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	23	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	21	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	26	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
86-74-8	Carbazole	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	210	24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	21	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	21	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	43	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	43	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	43	ug/kg	
206-44-0	Fluoranthene	ND	210	21	ug/kg	
86-73-7	Fluorene	48.3	210	21	ug/kg	J
118-74-1	Hexachlorobenzene	ND	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	21	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	21	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	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	
90-12-0	1-Methylnaphthalene	3000	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	6650 [a]	860	86	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	8540 [a]	860	86	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	210	25	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	210	ug/kg	
85-01-8	Phenanthrene	76.7	210	21	ug/kg	J
129-00-0	Pyrene	ND	210	21	ug/kg	
110-86-1	Pyridine	ND	430	43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%	73%	40-102%
4165-62-2	Phenol-d5	77%	79%	41-100%
118-79-6	2,4,6-Tribromophenol	85%	85%	42-108%
4165-60-0	Nitrobenzene-d5	77%	81%	40-105%
321-60-8	2-Fluorobiphenyl	79%	81%	43-107%
1718-51-0	Terphenyl-d14	94%	95%	45-119%

(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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008150.D	10	08/06/14	AH	n/a	n/a	GUU404
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.93 g	5.0 ml	2.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	14500	2800	1400	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		56-149%
98-08-8	aaa-Trifluorotoluene	89%		66-132%

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:	SS17-SB302-8		
Lab Sample ID:	FA17017-3	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004431.D	20	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	951	160	98	mg/kg	
	TPH (> C22-C36)	ND	160	98	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		56-122%

(a) Outside control limits due to dilution.

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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094349.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2							

	Initial Weight
Run #1	6.30 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	14	ug/kg	
107-02-8	Acrolein	ND	24	10	ug/kg	
107-13-1	Acrylonitrile	ND	24	7.4	ug/kg	
71-43-2	Benzene	1.4	4.7	0.94	ug/kg	J
108-86-1	Bromobenzene	ND	4.7	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.8	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	0.94	ug/kg	
75-25-2	Bromoform	ND	4.7	1.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	0.94	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	0.94	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	0.94	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.94	ug/kg	
75-00-3	Chloroethane	ND	4.7	2.1	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	0.94	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	0.94	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	9.4	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	0.94	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	0.94	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	0.94	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.94	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	0.94	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	
124-48-1	Dibromochloromethane	ND	4.7	0.94	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	0.94	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.94	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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	4.7	0.94	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	0.94	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	0.94	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	0.94	ug/kg	
591-78-6	2-Hexanone	ND	24	4.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	0.95	ug/kg	
110-54-3	Hexane	9.5	4.7	1.6	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	0.94	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	0.94	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	4.7	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.8	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
74-95-3	Methylene bromide	ND	4.7	1.1	ug/kg	
75-09-2	Methylene chloride	ND	9.4	3.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	24	7.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	0.94	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	0.94	ug/kg	
100-42-5	Styrene	ND	4.7	0.94	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	0.99	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	0.94	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	0.94	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	0.94	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.2	ug/kg	
108-88-3	Toluene	2.3	4.7	0.94	ug/kg	J
79-01-6	Trichloroethylene	ND	4.7	0.96	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.94	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	0.96	ug/kg	
108-05-4	Vinyl Acetate	ND	24	7.6	ug/kg	
	m,p-Xylene	ND	9.4	1.5	ug/kg	
95-47-6	o-Xylene	ND	4.7	1.0	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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-124%
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	100%		71-133%
17060-07-0	1,2-Dichloroethane-D4	101%		72-135%

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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013835.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	980	200	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	22	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	390	79	ug/kg	
95-48-7	2-Methylphenol	ND	200	20	ug/kg	
	3&4-Methylphenol	ND	200	39	ug/kg	
88-75-5	2-Nitrophenol	ND	200	20	ug/kg	
100-02-7	4-Nitrophenol	ND	980	160	ug/kg	
87-86-5	Pentachlorophenol	ND	980	160	ug/kg	
108-95-2	Phenol	ND	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	20	ug/kg	
83-32-9	Acenaphthene	ND	200	25	ug/kg	
208-96-8	Acenaphthylene	ND	200	20	ug/kg	
62-53-3	Aniline	ND	200	20	ug/kg	
120-12-7	Anthracene	ND	200	20	ug/kg	
92-87-5	Benzidine	ND	2000	390	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	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	200	39	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	20	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	23	ug/kg	
106-47-8	4-Chloroaniline	ND	200	20	ug/kg	
86-74-8	Carbazole	ND	200	20	ug/kg	
218-01-9	Chrysene	ND	200	20	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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	20	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	200	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	20	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	390	39	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	200	39	ug/kg	
84-66-2	Diethyl phthalate	ND	390	39	ug/kg	
131-11-3	Dimethyl phthalate	ND	200	39	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	39	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	20	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	20	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	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	
90-12-0	1-Methylnaphthalene	ND	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	20	ug/kg	
88-74-4	2-Nitroaniline	ND	200	39	ug/kg	
99-09-2	3-Nitroaniline	ND	200	39	ug/kg	
100-01-6	4-Nitroaniline	ND	200	39	ug/kg	
91-20-3	Naphthalene	ND	200	20	ug/kg	
98-95-3	Nitrobenzene	ND	200	20	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	200	23	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	
110-86-1	Pyridine	ND	390	39	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	20	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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

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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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008149.D	1	08/06/14	AH	n/a	n/a	GUU404
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)	3.98	5.9	2.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		56-149%
98-08-8	aaa-Trifluorotoluene	84%		66-132%

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:	SS17-SB303-8		
Lab Sample ID:	FA17017-4	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	84.0
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004437.D	1	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.58	7.3	4.4	mg/kg	J
	TPH (> C22-C36)	ND	7.3	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	121%		56-122%

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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094338.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2	G0094345.D	1	07/30/14	AD	n/a	n/a	VG3453

	Initial Weight	Methanol Aliquot
Run #1	7.11 g	100 ul
Run #2	7.11 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3000	900	ug/kg	
107-02-8	Acrolein	ND	1500	650	ug/kg	
107-13-1	Acrylonitrile	ND	1500	470	ug/kg	
71-43-2	Benzene	ND	300	60	ug/kg	
108-86-1	Bromobenzene	ND	300	65	ug/kg	
74-97-5	Bromochloromethane	ND	300	120	ug/kg	
75-27-4	Bromodichloromethane	ND	300	60	ug/kg	
75-25-2	Bromoform	ND	300	65	ug/kg	
104-51-8	n-Butylbenzene	1260	300	60	ug/kg	
135-98-8	sec-Butylbenzene	823	300	60	ug/kg	
98-06-6	tert-Butylbenzene	ND	300	60	ug/kg	
108-90-7	Chlorobenzene	ND	300	60	ug/kg	
75-00-3	Chloroethane	ND	300	140	ug/kg	
67-66-3	Chloroform	ND	300	68	ug/kg	
95-49-8	o-Chlorotoluene	ND	300	60	ug/kg	
106-43-4	p-Chlorotoluene	ND	300	60	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1500	600	ug/kg	
75-15-0	Carbon disulfide	ND	300	60	ug/kg	
56-23-5	Carbon tetrachloride	ND	300	83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	300	60	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	300	60	ug/kg	
563-58-6	1,1-Dichloropropene	ND	300	67	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	130	ug/kg	
106-93-4	1,2-Dibromoethane	ND	300	110	ug/kg	
107-06-2	1,2-Dichloroethane	ND	300	60	ug/kg	
78-87-5	1,2-Dichloropropane	ND	300	60	ug/kg	
142-28-9	1,3-Dichloropropane	ND	300	60	ug/kg	
594-20-7	2,2-Dichloropropane	ND	300	85	ug/kg	
124-48-1	Dibromochloromethane	ND	300	60	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	300	76	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	300	60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	300	60	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	300	60	ug/kg	
95-50-1	o-Dichlorobenzene	ND	300	60	ug/kg	
106-46-7	p-Dichlorobenzene	ND	300	67	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	300	80	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	300	60	ug/kg	
100-41-4	Ethylbenzene	22900 [a]	3000	600	ug/kg	
591-78-6	2-Hexanone	ND	1500	290	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	61	ug/kg	
110-54-3	Hexane	394	300	100	ug/kg	
98-82-8	Isopropylbenzene	2150	300	60	ug/kg	
99-87-6	p-Isopropyltoluene	61.7	300	60	ug/kg	J
108-10-1	4-Methyl-2-pentanone	ND	1500	300	ug/kg	
74-83-9	Methyl bromide	ND	300	110	ug/kg	
74-87-3	Methyl chloride	ND	300	120	ug/kg	
74-95-3	Methylene bromide	ND	300	69	ug/kg	
75-09-2	Methylene chloride	ND	600	240	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1500	450	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	300	60	ug/kg	
91-20-3	Naphthalene	343	300	120	ug/kg	
103-65-1	n-Propylbenzene	7280	300	60	ug/kg	
100-42-5	Styrene	ND	300	60	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	300	63	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	300	60	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	85	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	300	97	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	300	72	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	300	110	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	300	69	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	374	300	60	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	300	60	ug/kg	
127-18-4	Tetrachloroethylene	ND	300	76	ug/kg	
108-88-3	Toluene	ND	300	60	ug/kg	
79-01-6	Trichloroethylene	ND	300	61	ug/kg	
75-69-4	Trichlorofluoromethane	ND	300	60	ug/kg	
75-01-4	Vinyl chloride	ND	300	61	ug/kg	
108-05-4	Vinyl Acetate	ND	1500	480	ug/kg	
	m,p-Xylene	473	600	95	ug/kg	J
95-47-6	o-Xylene	79.2	300	64	ug/kg	J

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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	96%	75-124%
2037-26-5	Toluene-D8	99%	98%	75-126%
460-00-4	4-Bromofluorobenzene	94%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	72-135%

(a) Result is from Run# 2

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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013836.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	210	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	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	24	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	210	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	43	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	170	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	27	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
62-53-3	Aniline	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	23	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	21	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	26	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
86-74-8	Carbazole	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	210	24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	21	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	21	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	43	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	43	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	43	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	21	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	21	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	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	
90-12-0	1-Methylnaphthalene	1730	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	1570	210	21	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	210	25	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	
110-86-1	Pyridine	ND	430	43	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%
4165-60-0	Nitrobenzene-d5	61%		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 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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008151.D	1	08/06/14	AH	n/a	n/a	GUU404
Run #2 [a]	UU008129.D	10	08/05/14	AH	n/a	n/a	GUU403

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.11 g	5.0 ml	10.0 ul
Run #2	7.11 g	5.0 ml	20.0 ul

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	474	60	30	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	114%	84%	56-149%
98-08-8	aaa-Trifluorotoluene	97%	80%	66-132%

(a) Confirmation run.

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:	SS17-SB304-10		
Lab Sample ID:	FA17017-5	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	77.4
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004433.D	20	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	957	160	95	mg/kg	
	TPH (> C22-C36)	ND	160	95	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		56-122%

(a) Outside control limits due to dilution.

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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094339.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2	G0094347.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #3	G0094346.D	1	07/30/14	AD	n/a	n/a	VG3453

	Initial Weight	Methanol Aliquot
Run #1	6.85 g	100 ul
Run #2	6.85 g	1.0 ul
Run #3	6.85 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3200	950	ug/kg	
107-02-8	Acrolein	ND	1600	690	ug/kg	
107-13-1	Acrylonitrile	ND	1600	490	ug/kg	
71-43-2	Benzene	ND	320	64	ug/kg	
108-86-1	Bromobenzene	ND	320	69	ug/kg	
74-97-5	Bromochloromethane	ND	320	120	ug/kg	
75-27-4	Bromodichloromethane	ND	320	64	ug/kg	
75-25-2	Bromoform	ND	320	69	ug/kg	
104-51-8	n-Butylbenzene	13300 [a]	3200	640	ug/kg	
135-98-8	sec-Butylbenzene	5840	320	64	ug/kg	
98-06-6	tert-Butylbenzene	ND	320	64	ug/kg	
108-90-7	Chlorobenzene	ND	320	64	ug/kg	
75-00-3	Chloroethane	ND	320	140	ug/kg	
67-66-3	Chloroform	ND	320	72	ug/kg	
95-49-8	o-Chlorotoluene	ND	320	64	ug/kg	
106-43-4	p-Chlorotoluene	ND	320	64	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1600	640	ug/kg	
75-15-0	Carbon disulfide	ND	320	64	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	88	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	64	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	320	64	ug/kg	
563-58-6	1,1-Dichloropropene	ND	320	70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	140	ug/kg	
106-93-4	1,2-Dibromoethane	ND	320	320	ug/kg	
107-06-2	1,2-Dichloroethane	ND	320	64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	64	ug/kg	
142-28-9	1,3-Dichloropropane	ND	320	64	ug/kg	
594-20-7	2,2-Dichloropropane	ND	320	90	ug/kg	
124-48-1	Dibromochloromethane	ND	320	64	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	320	80	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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	320	64	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	64	ug/kg	
541-73-1	m-Dichlorobenzene	ND	320	64	ug/kg	
95-50-1	o-Dichlorobenzene	ND	320	64	ug/kg	
106-46-7	p-Dichlorobenzene	ND	320	71	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	320	85	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	64	ug/kg	
100-41-4	Ethylbenzene	110000 b	32000	6400	ug/kg	
591-78-6	2-Hexanone	ND	1600	310	ug/kg	
87-68-3	Hexachlorobutadiene	ND	320	64	ug/kg	
110-54-3	Hexane	41100 b	32000	11000	ug/kg	
98-82-8	Isopropylbenzene	12300	320	64	ug/kg	
99-87-6	p-Isopropyltoluene	8140	320	64	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	1600	320	ug/kg	
74-83-9	Methyl bromide	ND	320	120	ug/kg	
74-87-3	Methyl chloride	ND	320	130	ug/kg	
74-95-3	Methylene bromide	ND	320	73	ug/kg	
75-09-2	Methylene chloride	ND	640	250	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1600	480	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	320	64	ug/kg	
91-20-3	Naphthalene	61700 b	32000	13000	ug/kg	
103-65-1	n-Propylbenzene	79200 b	32000	6400	ug/kg	
100-42-5	Styrene	ND	320	64	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	320	67	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	64	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	90	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	100	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	320	76	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	320	120	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	73	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	384000 b	32000	6400	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	132000 b	32000	6400	ug/kg	
127-18-4	Tetrachloroethylene	ND	320	80	ug/kg	
108-88-3	Toluene	ND	320	64	ug/kg	
79-01-6	Trichloroethylene	ND	320	65	ug/kg	
75-69-4	Trichlorofluoromethane	ND	320	64	ug/kg	
75-01-4	Vinyl chloride	ND	320	65	ug/kg	
108-05-4	Vinyl Acetate	ND	1600	510	ug/kg	
	m,p-Xylene	331000 b	64000	10000	ug/kg	
95-47-6	o-Xylene	975	320	68	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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	77%	94%	87%	75-124%
2037-26-5	Toluene-D8	97%	94%	97%	75-126%
460-00-4	4-Bromofluorobenzene	100%	103%	98%	71-133%
17060-07-0	1,2-Dichloroethane-D4	112%	92%	89%	72-135%

(a) Result is from Run# 3
(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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013837.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2	T013838.D	4	08/04/14	MV	07/31/14	OP52529	ST655

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2	29.8 g	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	220	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	23	ug/kg	
105-67-9	2,4-Dimethylphenol	111	220	24	ug/kg	J
51-28-5	2,4-Dinitrophenol	ND	1100	220	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	44	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	180	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	35.4	220	28	ug/kg	J
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	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	24	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	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	26	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
86-74-8	Carbazole	ND	220	22	ug/kg	
218-01-9	Chrysene	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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	25	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	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	44	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	44	ug/kg	
84-66-2	Diethyl phthalate	ND	440	44	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	44	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	44	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	40.7	220	22	ug/kg	J
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	22	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	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	
90-12-0	1-Methylnaphthalene	3680	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	7710 [a]	880	88	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	6850 [a]	880	88	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	26	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	55.7	220	22	ug/kg	J
129-00-0	Pyrene	ND	220	22	ug/kg	
110-86-1	Pyridine	ND	440	44	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%	72%	40-102%
4165-62-2	Phenol-d5	70%	76%	41-100%
118-79-6	2,4,6-Tribromophenol	78%	84%	42-108%
4165-60-0	Nitrobenzene-d5	70%	73%	40-105%
321-60-8	2-Fluorobiphenyl	74%	79%	43-107%
1718-51-0	Terphenyl-d14	87%	93%	45-119%

(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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008152.D	10	08/06/14	AH	n/a	n/a	GUU404
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.85 g	5.0 ml	5.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6430	1300	640	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		56-149%
98-08-8	aaa-Trifluorotoluene	93%		66-132%

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:	SS17-SB305-8		
Lab Sample ID:	FA17017-6	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.2
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004434.D	20	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	946	160	98	mg/kg	
	TPH (> C22-C36)	ND	160	98	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		56-122%

(a) Outside control limits due to dilution.

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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094340.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2	G0094348.D	1	07/30/14	AD	n/a	n/a	VG3453

	Initial Weight	Methanol Aliquot
Run #1	7.61 g	100 ul
Run #2	7.61 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2800	830	ug/kg	
107-02-8	Acrolein	ND	1400	590	ug/kg	
107-13-1	Acrylonitrile	ND	1400	430	ug/kg	
71-43-2	Benzene	ND	280	55	ug/kg	
108-86-1	Bromobenzene	ND	280	60	ug/kg	
74-97-5	Bromochloromethane	ND	280	110	ug/kg	
75-27-4	Bromodichloromethane	ND	280	55	ug/kg	
75-25-2	Bromoform	ND	280	59	ug/kg	
104-51-8	n-Butylbenzene	350	280	55	ug/kg	
135-98-8	sec-Butylbenzene	1250	280	55	ug/kg	
98-06-6	tert-Butylbenzene	ND	280	55	ug/kg	
108-90-7	Chlorobenzene	ND	280	55	ug/kg	
75-00-3	Chloroethane	ND	280	120	ug/kg	
67-66-3	Chloroform	ND	280	62	ug/kg	
95-49-8	o-Chlorotoluene	ND	280	55	ug/kg	
106-43-4	p-Chlorotoluene	ND	280	55	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1400	550	ug/kg	
75-15-0	Carbon disulfide	ND	280	55	ug/kg	
56-23-5	Carbon tetrachloride	ND	280	76	ug/kg	
75-34-3	1,1-Dichloroethane	ND	280	55	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	280	55	ug/kg	
563-58-6	1,1-Dichloropropene	ND	280	61	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	280	120	ug/kg	
106-93-4	1,2-Dibromoethane	ND	280	98	ug/kg	
107-06-2	1,2-Dichloroethane	ND	280	55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	280	55	ug/kg	
142-28-9	1,3-Dichloropropane	ND	280	55	ug/kg	
594-20-7	2,2-Dichloropropane	ND	280	78	ug/kg	
124-48-1	Dibromochloromethane	ND	280	55	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	280	69	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	280	55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	280	55	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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	280	55	ug/kg	
95-50-1	o-Dichlorobenzene	ND	280	55	ug/kg	
106-46-7	p-Dichlorobenzene	ND	280	62	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	280	74	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	280	55	ug/kg	
100-41-4	Ethylbenzene	322	280	55	ug/kg	
591-78-6	2-Hexanone	ND	1400	270	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	56	ug/kg	
110-54-3	Hexane	ND	280	94	ug/kg	
98-82-8	Isopropylbenzene	ND	280	55	ug/kg	
99-87-6	p-Isopropyltoluene	1360	280	55	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	1400	280	ug/kg	
74-83-9	Methyl bromide	ND	280	100	ug/kg	
74-87-3	Methyl chloride	ND	280	110	ug/kg	
74-95-3	Methylene bromide	ND	280	63	ug/kg	
75-09-2	Methylene chloride	ND	550	220	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1400	410	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	280	55	ug/kg	
91-20-3	Naphthalene	4400	280	110	ug/kg	
103-65-1	n-Propylbenzene	ND	280	55	ug/kg	
100-42-5	Styrene	ND	280	55	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	280	58	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	280	55	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	280	78	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	280	89	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	280	66	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	280	100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	63	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	58.3	280	55	ug/kg	J
108-67-8	1,3,5-Trimethylbenzene	65500 [a]	2800	550	ug/kg	
127-18-4	Tetrachloroethylene	ND	280	69	ug/kg	
108-88-3	Toluene	ND	280	55	ug/kg	
79-01-6	Trichloroethylene	ND	280	56	ug/kg	
75-69-4	Trichlorofluoromethane	ND	280	55	ug/kg	
75-01-4	Vinyl chloride	ND	280	56	ug/kg	
108-05-4	Vinyl Acetate	ND	1400	440	ug/kg	
	m,p-Xylene	ND	550	87	ug/kg	
95-47-6	o-Xylene	ND	280	59	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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	94%	75-124%
2037-26-5	Toluene-D8	100%	96%	75-126%
460-00-4	4-Bromofluorobenzene	97%	95%	71-133%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	72-135%

(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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T013839.D	1	08/04/14	MV	07/31/14	OP52529	ST655
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	210	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	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	23	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	210	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	420	85	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	42	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	170	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	27	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
62-53-3	Aniline	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	23	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	21	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	25	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
86-74-8	Carbazole	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	32	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	210	24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	21	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	21	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	42	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	42	ug/kg	
84-66-2	Diethyl phthalate	ND	420	42	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	42	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	42	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	21	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	21	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	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	
90-12-0	1-Methylnaphthalene	253	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	58.9	210	21	ug/kg	J
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	210	25	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	
110-86-1	Pyridine	ND	420	42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	69%		42-108%
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU008131.D	10	08/05/14	AH	n/a	n/a	GUU403
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.61 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1330	280	140	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-149%
98-08-8	aaa-Trifluorotoluene	88%		66-132%

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:	SS17-SB306-10		
Lab Sample ID:	FA17017-7	**Date Sampled:**	07/29/14
Matrix:	SO - Soil	**Date Received:**	07/30/14
Method:	SW846 8015C SW846 3546	**Percent Solids:**	78.9
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ004435.D	5	08/13/14	SJL	08/06/14	OP52604	GJJ171
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	293	39	23	mg/kg	
	TPH (> C22-C36)	ND	39	23	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		56-122%

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:	TRIP BLANK		
Lab Sample ID:	FA17017-8	**Date Sampled:**	07/29/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0094335.D	1	07/30/14	AD	n/a	n/a	VG3453
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	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	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	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:	TRIP BLANK		
Lab Sample ID:	FA17017-8	**Date Sampled:**	07/29/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	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:	TRIP BLANK		
Lab Sample ID:	FA17017-8	**Date Sampled:**	07/29/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	07/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		75-124%
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%

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

NATIONVIEW

FA 17017

Page: 1 of 1

Project No: 11-0019.73.010

COC Number(1): 07292014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base

Project/Site Name: SS17 Annual Soil

Client Name: USACE

Collected by: L Williams / T Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	8260 VOC'S + HEXANE	8270 SVOC'S	8015 ORO,DRO	8015 GRO	PERCENT MOISTURE				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	SS17-SB301-8	SS17-SB301-8	29-Jul-14	0800	8 - 8	N	1	SO	4	☒	☒	☒	☒	☒							1
2	SS17-SB301A-8	SS17-SB301A-8	29-Jul-14	0810	8 - 8	FD	1	SO	4	☒	☒	☒	☒	☒							1
3	SS17-SB302-8	SS17-SB302-8	29-Jul-14	0850	8 - 8	N	1	SO	4	☒	☒	☒	☒	☒							1
4	SS17-SB303-8	SS17-SB303-8	29-Jul-14	0910	8 - 8	N	1	SO	4	☒	☒	☒	☒	☒							1
5	SS17-SB304-10	SS17-SB304-10	29-Jul-14	0930	10 - 10	N	1	SO	4	☒	☒	☒	☒	☒							1
6	SS17-SB305-8	SS17-SB305-8	29-Jul-14	1000	8 - 8	N	1	SO	4	☒	☒	☒	☒	☒							1
7	SS17-SB306-10	SS17-SB306-10	29-Jul-14	1025	10 - 10	N	1	SO	4	☒	☒	☒	☒	☒							1
8	Trip Blank	Field QC	29-Jul-14		-	TB	1	AQ	1	☒											1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Lucero FX	7/29/2014	1600	1. FX		09:15
2.			2. L Lopez (ASR)	7-30-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 770713395415

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

FA17017: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA17017 CLIENT: NATIONVIEW PROJECT: SS 17

DATE/TIME RECEIVED: 7-30-14 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7707 1339 5415

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

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 ? 7+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] 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
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 7-30-14 REVIEWER SIGNATURE/DATE [signature] 07-30-14

RS 04/14

receipt confirmation 041514.xls

From: (575) 621-1600
Tony Lucero
NATCNVESW
BLG 1208 Vandegrift Rd

Hollomen AFB, NM 88330

Origin ID: ELPA

FedEx Express

J1420405180Iav

Ship Date: 29JUL14
Act/Wgt: 48.0 LB
CAD: 108020923/INET3550

Delivery Address Bar Code

Ref # 11-0010.73.010
Invoice # 11-0010.73.010
PO # 11-0010.73.010
Dept # 11-0010.73.010

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

WED - 30 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 7707 1339 5415
0201

XH TIXA

32811
FL-US
MCO

5202/ED4F8A09

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APPENDIX E

Data Validation Reports

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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, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 5-6, 2013. Six aqueous samples, one duplicate and associated trip blanks were collected from site SS-17 for performance monitoring. All analyses were performed by Accutest Laboratories, Inc., Orlando, Florida. The specific samples included in this validation were:

Sample ID	Lab Package	Matrix	Collection Date	Analyses
SS17-MW05	FA7055	Water	8/6/13	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), Manganese (Dissolved/Total 200.7/6010C), BOD (SM5210B), COD (SM5220C), H2S (SM4500), Ferrous Iron (SM3500 FED), Ferric Iron (Total Iron-Ferrous),Ammonia (E350.1), Nitrate & Sulfate (E300/SW9056A), TKN (E351.2), TDS (SM2540C)
SS17-MW07				
SS17-MW08				
SS17-MW21	FA7028		8/5/13	
SS17-MW22				
SS17-MW23				
SS17-MW23-A				

This data was validated against the laboratory's 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: Ferrous iron was analyzed outside the recommended twenty-four hour timeframe by mere hours. Using professional judgment no qualification was necessary.

The sample vials for SS17-MW21 contained significant headspace. All positive volatile results were considered estimated values and the results reported from both analytical runs were qualified as estimated (J).

Blanks

Toluene and/or methylene chloride were detected in multiple trip blanks. When positively identified in the associated samples, the results were greater than 5x (10x for MC) the blank concentration. Therefore, the samples were not adversely affected by blank contamination and required no qualification.

The method blank associated with samples in package FA7028 yielded a low level concentration of 1,2,3-trichlorobenzene. No sample yielded positive results for 1,2,3-trichlorobenzene. Also, TDS was detected in different method blanks associated with all samples. The TDS results were well above 5x the blank concentration and not influenced by the blank results. No data required qualification.

Laboratory Control Sample (LCS)

The LCS recovery for acrolein was above QC limits associated with all samples. The LCS recovery of 2-chloroethyl vinyl ether was also above QC limits for samples in package FA7055. These compounds were not detected and required no qualification.

The semi-volatile LCS recoveries of hexachlorobutadiene and hexachloroethane were slightly below QC limits for all samples in package FA7028. Additionally, the LCS recovery of 4-chloroaniline, associated with samples in package FA7055, was slightly below QC limits. These non detected compounds were qualified estimated non-detected in all associated samples (UJ).

Surrogates

Package FA7028:
The matrix spike and duplicate semi-volatile surrogate recoveries of 2-fluorophenol and phenol-d5 were slightly above QC limits. Since the package sample used for spiking purposes yielded no detections along with surrogates in control, no qualification of the data was deemed necessary.

Package FA7055:
The matrix spike semi-volatile surrogate recovery of phenol-d5 was slightly above QC limits. Since only one semi-volatile surrogate recovery was outside control limits no qualification of the sample data was required.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for COD (only associated sample SS17-MW21), TPH-DRO, phenol, acrolein, 2-chloroethyl vinyl ether and bromoform were outside control limits associated with samples in package FA7028. The MS/MSD recoveries and/or RPD, associated with samples from packages FA7055, yielded TPH-DRO, 2,4-dinitrophenol, 4,6-dinitro-o-cresol, phenol, benzidine, isophorone, naphthalene, acetone, acrolein, bromoform, 2-chloroethyl vinyl ether, carbon disulfide, tetrachloroethylene and dibromochloromethane outside control limits. Precision and accuracy were cross reference with the LCS recoveries; which were in control. The exceptions being acrolein associated with all samples and 2-chloroethyl vinyl ether associated with samples in package FA7055. Since acrolein and 2-chloroethyl vinyl ether were not detected in any associated sample using professional judgment no qualification of any sample data was necessary.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPDs for 2,4-dinitrotoluene, total iron, chemical oxygen demand and ferric iron were outside project defined control limits. These compounds were qualified estimated (J) in both the parent and duplicate sample.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

Overall assessment of data

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*
SS17-MW21	Benzene	49800 J
	Ethylbenzene	7720 J
	Isopropylbenzene	230 J
	n-Propylbenzene	916 J
	1,2,4-Trimethylbenzene	4450 J
	1,3,5-Trimethylbenzene	1260 J
	Toluene	67800 J
	M,p-Xylene	21400 J
	o-Xylene	9490 J
	Hexachlorobutadiene	UJ
	Hexachloroethane	UJ
SS17-MW22	Hexachlorobutadiene	UJ
	Hexachloroethane	UJ
SS17-MW23	2,4-Dinitrotoluene	1.9 J
	Iron	15600 J
	COD	102 J
	Ferric iron	10.8 J
	Hexachlorobutadiene	UJ
	Hexachloroethane	UJ
SS17-MW23-A	2,4-Dinitrotoluene	1.2 J
	Iron	26700 J
	COD	63 J
	Ferric iron	23.3 J
	Hexachlorobutadiene	UJ
	Hexachloroethane	UJ
SS17-MW05	4-Chloroaniline	UJ
SS17-MW07	4-Chloroaniline	UJ
SS17-MW08	4-Chloroaniline	UJ

*volatiles µg/l/general chemistry in mg/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, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on February 5-7, 2014. Eight aqueous samples, one duplicate and associated trip blanks were collected from site SS-17 for performance monitoring. All analyses were performed by Accutest Laboratories, Inc., Orlando, Florida. The specific samples included in this validation were:

Sample ID	Lab Package	Matrix	Collection Date	Analyses
SS17-MW05	FA12333	Water	2/7/14	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), Manganese (Dissolved/Total 200.7/6010C), BOD (SM5210B), COD (SM5220C), H2S (SM4500), Ferrous Iron (SM3500 FED), Ferric Iron (Total Iron-Ferrous),Ammonia (E350.1), Nitrate & Sulfate (E300/SW9056A), TKN (E351.2), TDS (SM2540C)
S17-MW05A				
SS17-MW07				
SS17-MW08	FA12286		2/6/14	
SS17-MW10				
SS17-MW11				
SS17-MW21	FA12333		2/7/14	
SS17-MW22	FA12256		2/5/14	
SS17-MW23				

This data was validated against the laboratory's 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: Ferrous iron was analyzed outside the recommended twenty-four hour timeframe but within 48 hours. Using professional judgment no qualification was necessary.

The volatile analysis of sample SS17-MW21 was not preserved to a pH<2 for both run #1 and #2. The positive results were considered estimated values and qualified as such (J). Additionally, the sample vials used for run #3 of SS17-MW05A contained significant headspace and ethylbenzene (reported from this run) was qualified estimated (J). The sample vials for the volatile analysis of SS17-MW10 were not properly preserved and methyl tert butyl ether and TPH-GRO (the only reported analytes) were qualified estimated (J).

Blanks

The trip blank associated with sample SS17-MW05 yielded a low level concentration of m,p-xylene. M,p-Xylene was detected, but at a concentration well above 5x the blank concentration. Therefore, no qualification was necessary.

Laboratory Control Sample (LCS)

The LCS recoveries for 2-chloroethyl vinyl ether and vinyl acetate were above QC limits associated with all samples in package FA12333 (with the exception of SS17-MW21). These compounds were not detected and required no qualification. Also, BOD reported its LCS recovery below QC limits in packages FA12333 and FA12286 and was qualified estimated (UJ or J) in all associated samples.

Surrogates

All surrogate recoveries were within control limits.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package FA12333, the MS/MSD recoveries and/or relative percent difference (RPD) for multiple compounds were outside control limits.

The MS/MSD recoveries, associated with samples from package FA12286, yielded 2-chloroethyl vinyl ether, ethylbenzene, 4,6-dinitro-o-cresol, benzidine, TPH-GRO, COD and TKN outside control limits.

For lab package FA12256 the MS/MSD recoveries and/or RPD for acetone, 1,1-dichloroethylene, tetrachloroethylene, 2-chloroethyl vinyl ether, 4,6-dinitro-o-cresol, benzidine, TPH-DRO and TKN were outside control limits.

Precision and accuracy were cross reference with the LCS recoveries; which were in control (with the exception of 2-chloroethyl vinyl ether; which is poor performer and did not warrant qualification). Therefore, no qualification of the data was necessary based on matrix spike issues.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPDs for benzene, carbon disulfide, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, toluene, o-xylene, TPH-GRO and ferrous iron were outside project defined control limits. These compounds were qualified estimated (J) in both the parent and duplicate sample.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

Overall assessment of data

For samples SS17-MW22 and SS17-MW23, the laboratory duplicate RPD of BOD was above QC limits. Due to low duplicate and sample concentrations the RPD was deemed acceptable.

Serial Dilution:
-The percent difference of total iron, dissolved and total manganese were outside QC limits for samples in package FA12333. Iron, in samples SS17-MW05 and SS17-MW05A, was greater than 50x the method detection limit (MDL) as well as dissolved and total manganese in all samples and each qualified estimated, (J).
-The percent difference of total iron, total and dissolved manganese in sample SS17-MW11 and total and dissolved manganese in samples SS17-MW08 and SS17-MW10 were outside QC limits. These compounds were >50x the MDL and qualified estimated (J).
-Finally, the percent difference for total iron in samples SS17-MW22 and S17-MW23 was outside control limits. The percent difference was acceptable due to the low initial sample concentration (<50 MDL) and no qualification was 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*
SS17-MW05	Benzene	11.9 J
	Carbon disulfide	4.7 J
	Ethylbenzene	3130 J
	Naphthalene	504 J
	1,2,4-Trimethylbenzene	155 J
	Toluene	25.8 J
	o-Xylene	8.6 J
	TPH-GRO	9.30 J
	Ferrous iron	0.77 J
	BOD	90.8 J
	Total Iron	972 J
	Total/Dissolved Manganese	216 J/191 J
SS17-MW05A	Benzene	0.79 J
	Carbon disulfide	1.9 J
	Ethylbenzene	1950 J
	Naphthalene	322 J
	1,2,4-Trimethylbenzene	99.7 J
	Toluene	3.2 J
	o-Xylene	3.5 J
	TPH-GRO	0.359 J
	Ferrous iron	1.3 J
	BOD	83.4 J
	Total Iron	900 J
	Total/Dissolved Manganese	183 J/163 J
SS17-MW07	BOD	3.0 J
	Total/Dissolved Manganese	529 J/501 J
SS17-MW08	BOD	10.9 J
	Total/Dissolved Manganese	102 J/115 J
SS17-MW10	Methyl tert butyl ether	1.4 J
	TPH-GRO	0.0931 J
	BOD	2.0 UJ
	Total/Dissolved Manganese	1770 J/1420 J
SS17-MW11	BOD	2.0 UJ
	Total Iron	3620 J
	Total/Dissolved Manganese	2910 J/2860 J
SS17-MW21	Benzene	53600 J
	Ethylbenzene	6700 J
	Isopropylbenzene	148 J
	Methylene chloride	851 J
	Naphthalene	338 J
	n-Propylbenzene	574 J
	1,2,4-Trimethylbenzene	3140 J
	1,3,5-Trimethylbenzene	914 J
	Toluene	53100 J
	m,p-Xylene	17900 J
	o-Xylene	8450 J
	TPH-GRO	267 J
	BOD	364 J
	Total/Dissolved Manganese	62.2 J/65.5 J

*volatiles µg/l/general chemistry in mg/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, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on November 11-12, 2013. Six aqueous samples, one duplicate and associated trip blanks were collected from site SS-17 for performance monitoring. All analyses were performed by Accutest Laboratories, Inc., Orlando, Florida. The specific samples included in this validation were:

<table>
<tr><th>Sample ID</th><th>Lab Package</th><th>Matrix</th><th>Collection Date</th><th>Analyses</th></tr>
<tr><td>SS17-MW05</td><td rowspan="2">FA9884</td><td rowspan="8">Water</td><td rowspan="3">11/11/13</td><td rowspan="8">VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), Manganese (Dissolved/Total 200.7/6010C), BOD (SM5210B), COD (SM5220C), H2S (SM4500), Ferrous Iron (SM3500 FED), Ferric Iron (Total Iron-Ferrous),Ammonia (E350.1), Nitrate & Sulfate (E300/SW9056A), TKN (E351.2), TDS (SM2540C)</td></tr>
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<tr><td>SS17-MW08</td><td rowspan="6">FA9938</td></tr>
<tr><td>SS17-MW21</td><td rowspan="5">11/12/13</td></tr>
<tr><td>SS17-MW22</td></tr>
<tr><td>SS17-MW22-A</td></tr>
<tr><td>SS17-MW23</td></tr>
</table>

This data was validated against the laboratory's 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: Ferrous iron was analyzed outside the recommended twenty-four hour timeframe but within 48 hours. Using professional judgment no qualification was necessary.

The volatile analysis of sample SS17-MW22-A was not preserved to a pH<2 for run #1. Only 1,2-dichloroethane, methylene chloride and n-propylbenzene were reported from this run. They were considered estimated values and qualified as such (J). Additionally, SS17-MW23 was not properly preserved and the positively identified volatile compounds were qualified estimated (J).

Blanks

The trip blank associated with sample SS17-MW05 yielded a low level concentration of methylene chloride and the trip blank associated with SS17-MW07 reported a low level detection of toluene. Methylene chloride was not detected in the sample and required no qualification. However, toluene was detected in sample SS17-MW07 and qualified as estimated (J).

Laboratory Control Sample (LCS)

The LCS recovery for acetone was above QC limits associated with all samples. This compound was not detected and required no qualification.

Surrogates

The semi-volatile surrogate recoveries were 'diluted out' of sample SS17-MW21. The surrogate recoveries for the quality control analyses were in control; therefore no qualification of the sample data was necessary.

For both lab packages, the extractable TPH surrogate in the matrix spike duplicate analyses were recovered above QC limits. Since the samples used for these analyses were from another batch/lot the data was not adversely affected and required no qualification.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for 2-chloroethyl vinyl ether, carbon disulfide, benzidine, TPH-DRO, TPH-ORO, COD, nitrate, TKN, sulfate and dibromochloromethane were outside control limits associated with samples in package FA9938. The MS/MSD recoveries and/or RPD, associated with samples from packages FA9884, yielded 2-chloroethyl vinyl ether, benzidine, TPH-DRO, TPH-ORO, COD and TKN outside control limits. Precision and accuracy were cross reference with the LCS recoveries; which were in control. Therefore, no qualification of the data was necessary based on matrix spike issues.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPDs for benzene, 1,2-dichloroethane, toluene, TPH-GRO, ferrous iron and ammonia were outside project defined control limits. These compounds were qualified estimated (J) in both the parent and duplicate sample.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

Overall assessment of data

For lab package FA9938, the laboratory duplicate RPD of dissolved manganese was above QC limits. Due to low duplicate and sample concentrations the RPD was deemed acceptable.

The serial dilution percent difference of dissolved and total manganese was outside QC limits for associated sampled in package FA9938. Due to the initial sample concentration less than 50x the method detection limit the percent difference was acceptable and required no 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*
SS17-MW07	Toluene	0.44 J
SS17-MW22	Benzene	162 J
	1,2-Dichloroethane	1.5 J
	Toluene	199 J
	TPH-GRO	0.928 J
	Ferrous iron	6.4 J
	Ammonia	0.13 J
SS17-MW22-A	Benzene	232 J
	1,2-Dichloroethane	3.0 J
	Toluene	307 J
	TPH-GRO	1.34 J
	Ferrous iron	2.4 J
	Ammonia	0.19 J
	Methylene chloride	13.2 J
	n-Propylbenzene	2.7 J
SS17-MW23	Benzene	60 J
	Ethylbenzene	11.2 J
	Isopropylbenzene	0.40 J
	Naphthalene	1.4 J
	n-propylbenzene	0.99 J
	1,2,4-Trimethylbenzene	4.8 J
	1,3,5-Trimethylbenzene	1.5 J
	Toluene	86.6 J
	M,p-xylene	30.9 J
	o-.xylene	13.6 J

*volatiles µg/l/general chemistry in mg/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, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on May 29 – June 2, 2014. Six aqueous samples, one duplicate and associated trip blanks were collected from site SS-17 for performance monitoring. All analyses were performed by Accutest Laboratories, Inc., Orlando, Florida. The specific samples included in this validation were:

<table>
<tr><th>Sample ID</th><th>Lab Package</th><th>Matrix</th><th>Collection Date</th><th>Analyses</th></tr>
<tr><td>SS17-MW05</td><td rowspan="4">FA15429</td><td rowspan="7">Water</td><td rowspan="3">5/30/14</td><td rowspan="7">VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), Manganese (Dissolved/Total 200.7/6010C), BOD (SM5210B), COD (SM5220C), H2S (SM4500), Ferrous Iron (SM3500 FED), Ferric Iron (Total Iron-Ferrous),Ammonia (E350.1), Nitrate & Sulfate (E300/SW9056A), TKN (E351.2), TDS (SM2540C)</td></tr>
<tr><td>SS17-MW07</td></tr>
<tr><td>SS17-MW08</td></tr>
<tr><td>SS17-MW21</td><td>5/29/14</td></tr>
<tr><td>SS17-MW22</td><td rowspan="3">FA15479</td><td rowspan="3">6/2/14</td></tr>
<tr><td>SS17-MW22A</td></tr>
<tr><td>SS17-MW23</td></tr>
</table>

This data was validated against the laboratory's 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: Ferrous iron was analyzed outside the recommended twenty-four hour timeframe but within 48 hours. Using professional judgment no qualification was necessary.

Blanks

The trip blanks associated with all sample in package FA15429 yielded concentrations of toluene. Toluene was detected, but at a concentration well above 5x the blank concentration. Therefore, no qualification was necessary.

Laboratory Control Sample (LCS)

The LCS recoveries for 4-bromophenyl phenyl ether and indeno (1,2,3-cd) pyrene were below QC limits associated with all samples in package FA15429. These compounds were qualified estimated non-detected (UJ). Also, acetone and 1,2-dibromo-3-chloropropane reported LCS recoveries above QC limits in package FA15479. Since these compounds were not detected in any sample; no qualification was necessary.

Surrogates

The volatile (3rd run) and extractable TPH surrogate recoveries of sample SS17-MW21 were 'diluted out'. The quality control surrogate recoveries associated with SS17-MW21 were within control limits and therefore, no qualification was necessary.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package FA15429, the MS/MSD recoveries and/or relative percent difference (RPD) for acrolein, p-chlorotoluene, 2-chloroethyl vinyl ether, ethylbenzene, 2,6-dinitrotoluene, 1-methylnaphthalene, naphthalene, TPH-DRO, COD, nitrate, TKN and sulfate were outside control limits.

The MS/MSD recoveries, associated with samples from package FA15479, yielded 2-chloroethyl vinyl ether, isopropylbenzene, n-propylbenzene, 1,1,1-trichloroethane, tetrachloroethylene, trichloroethylene, TPH-DRO, ammonia, nitrate, TKN and sulfate outside control limits.

Precision and accuracy were cross reference with the LCS recoveries; which were in control. Therefore, no qualification of the data was necessary based on matrix spike issues.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPD for ammonia was outside project defined control limits. This compound was qualified estimated (J) in both the parent and duplicate sample.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

Overall assessment of data

For samples in package FA15429, the laboratory duplicate RPD of total iron was above QC limits. The RPD was acceptable due to low duplicate and sample concentrations (<5xRL) and required no qualification.

The serial dilution percent difference of total iron was outside QC limits for samples in package FA15429. The percent difference was acceptable due to the initial sample concentration <50x the method detection limit. Therefore no qualification was required.

The dissolved manganese post digestate spike percent recovery in sample SS17-MW05 was above QC limits. Due to high levels in the sample relative to the spike amount as well as its MS/MSD recoveries within control limits, 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*
SS17-MW05	4-Bromophenyl phenyl ether Indeno (1,2,3-cd) pyrene	UJ UJ
SS17-MW07	4-Bromophenyl phenyl ether Indeno (1,2,3-cd) pyrene	UJ UJ
SS17-MW08	4-Bromophenyl phenyl ether Indeno (1,2,3-cd) pyrene	UJ UJ
SS17-MW21	4-Bromophenyl phenyl ether Indeno (1,2,3-cd) pyrene	UJ UJ
SS17-MW22	Ammonia	0.23 J
SS17-MW22A	Ammonia	0.47 J

*volatiles µg/l/general chemistry in mg/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, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 29, 2014. Six soil samples, one duplicate and trip blank were taken for soil sampling of site SS-17. All analyses were performed by Accutest Laboratories, Inc., Orlando, Fl. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses
SS17-SB301-8	Soil	7/29/14	VOCs (SW8260), SVOCs (SW8270), TPH-GRO/DRO/ORO (SW8015)
SS17-SB301A-8			
SS17-SB302-8			
SS17-SB303-8			
SS17-SB304-10			
SS17-SB305-8			
SS17-SB306-10			

This data was validated against the laboratory's 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).

Sample Handling and Holding times

All 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. The TPH-GRO analysis exceeded the 48 hr hold time and was qualified estimated, "J".

Blanks

No compounds were detected in the trip blank or any method blank.

Blank spike sample (laboratory control sample-LCS)/surrogates

The LCS and/or LCSD recoveries were within control limits for all analyses.

The TPH extractable surrogate recovery of o-terphenyl was 'diluted out' of samples SS17-SB302-8, SS17-SB304-10 and SS17-SB305-8. The surrogate recovery was within control limits for all associated quality control analyses. Therefore, no qualification was required.

Matrix spike/matrix spike duplicates (MS/MSD)

The MS and MSD recoveries for multiple compounds were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling event. The relative percent difference (RPD) for benzo(a)anthracene, fluoranthene, 2-methylnapthalene, naphthalene and pyrene were outside project defined control limits. These compounds were qualified estimated, “J”.

Compound quantitation and reporting limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall assessment of data

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*
SS17-SB301-8	Benzo(a)anthracene Fluoranthene 2-Methylnaphthalene Naphthalene Pyrene TPH-GRO	124 J 48.6 J 167 J 316 J 95.8 J 4650 J
SS17-SB301A-8	Benzo(a)anthracene Fluoranthene 2-Methylnaphthalene Naphthalene Pyrene TPH-GRO	27.9 J 29.4 J 1300 J 1070 J 35.1 J 4100 J
SS17-SB302-8	TPH-GRO	14500 J
SS17-SB303-8	TPH-GRO	3.98 J
SS17-SB304-10	TPH-GRO	474 J
SS17-SB305-8	TPH-GRO	6430 J
SS17-SB306-10	TPH-GRO	1330 J

*volatiles in ug/kg/TPH in mg/kg

APPENDIX F

Tables

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Table 4-1A
Groundwater Elevation Summary (August 2013)
SS-17 Quarter 1
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	August 5, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation August 5, 2013 (ft above msl)
SS17-MW05	3633800.924	399429.49	4073.103	7.29	4065.813
SS17-MW07	3633767.161	399459.699	4072.841	7.41	4065.431
SS17-MW08	3633745.886	399478.257	4072.732	7.63	4065.102
SS17-MW21	3633813.227	399393.976	4071.851	5.81	4066.041
SS17-MW22	3633716.174	399439.047	4073.108	9.27	4063.838
SS17-MW23	3633717.162	399479.803	4072.622	8.30	4064.322

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 4-1B
Groundwater Elevation Summary (November 2013)
SS-17 Quarter 2
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	November 14, 2013 DTW from TOC (ft below TOC)	Groundwater Elevation November 14, 2013 (ft above msl)
SS17-MW05	3633800.924	399429.49	4073.103	6.57	4066.533
SS17-MW07	3633767.161	399459.699	4072.841	6.67	4066.171
SS17-MW08	3633745.886	399478.257	4072.732	6.85	4065.882
SS17-MW21	3633813.227	399393.976	4071.851	5.28	4066.571
SS17-MW22	3633716.174	399439.047	4073.108	8.31	4064.798
SS17-MW23	3633717.162	399479.803	4072.622	7.44	4065.182

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 4-1C
Groundwater Elevation Summary (February 2014)
SS-17 Quarter 3
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	February 5, 2014 DTW from TOC (ft below TOC)	Groundwater Elevation February 5, 2014 (ft above msl)
SS17-MW05	3633800.924	399429.49	4073.103	6.81	4066.293
SS17-MW07	3633767.161	399459.699	4072.841	6.87	4065.971
SS17-MW08	3633745.886	399478.257	4072.732	7.02	4065.712
SS17-MW21	3633813.227	399393.976	4071.851	5.60	4066.251
SS17-MW22	3633716.174	399439.047	4073.108	8.43	4064.678
SS17-MW23	3633717.162	399479.803	4072.622	7.60	4065.022

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

Table 4-1D
Groundwater Elevation Summary (May 2014)
SS-17 Quarter 4
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (UTM meters)	Easting (UTM meters)	Elevation TOC (ft above msl)	May 29, 2014 DTW from TOC (ft below TOC)	Groundwater Elevation May 29, 2014 (ft above msl)
SS17-MW05	3633800.924	399429.49	4073.103	7.19	4065.913
SS17-MW07	3633767.161	399459.699	4072.841	7.23	4065.611
SS17-MW08	3633745.886	399478.257	4072.732	7.31	4065.422
SS17-MW21	3633813.227	399393.976	4071.851	7.88	4063.971
SS17-MW22	3633716.174	399439.047	4073.108	8.73	4064.378
SS17-MW23	3633717.162	399479.803	4072.622	7.77	4064.852

Notes:
UTM = Universal Transverse Mercator
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

TABLE 5-1A
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 1 Monitoring (August 2013)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05		SS17-MW07		SS17-MW08		SS17-MW21	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA7055-1		FA7055-3		FA7055-5		FA7028-7	
Date Sampled:				8/6/2013		8/6/2013		8/6/2013		8/5/2013	
Analyte				Result [3]	Q	Result [3]	Q	Result [3]	Q	Result [3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	**0.0110**	U	0.0007		**0.0110**	U	**49.8000**	
n-Butylbenzene	NV	NV	NV	0.0178	J	0.0002	U	0.0174		0.1000	U
sec-Butylbenzene	NV	NV	NV	0.0155	J	0.0043		0.0140		0.1100	U
Ethylbenzene	0.70	0.70	NV	**2.9600**		0.0163		**4.1300**		**7.7200**	
Isopropylbenzene	NV	NV	NV	0.0858		0.0036		0.0887		**0.2300**	J
Naphthalene	30.00	0.10	NV	**0.6350**		0.0011	J	**0.4150**		**0.2770**	
n-Propylbenzene	NV	NV	NV	0.2920		0.0058		0.3260		0.9160	
Toluene	0.75	1.00	NV	.025.8		0.0015		0.0226	J	**67.8000**	
m,p-Xylene	0.62	10.00	NV	0.5740		0.0032		**4.5800**		**21.4000**	
o-Xylene	0.62	10.00	NV	0.0116	J	0.0006	J	0.0164	J	**9.4900**	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.0097		0.0007	U	0.0029	U	0.0147	J
2,6-Dinitrotoluene	NV	NV	NV	0.0038	J	0.0014	U	0.0031	U	0.0077	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.0076	J	0.0011	U	0.0044	U	0.0110	U
1-Methylnaphthalene	NV	NV	NV	0.0743		0.0007	U	0.0437		0.0426	J
2-Methylnaphthalene	NV	NV	NV	0.0630		0.0007	U	0.0412		0.0888	
Naphthalene	0.030	NV	NV	**0.3830**	C	0.0006	U	**0.2740**		**0.2770**	
Phenol	0.005	NV	NV	0.0021	U	0.0005	U	0.0021	U	**0.0509**	
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	**1.260**		0.215	J	0.134	J	**0.882**	
Manganese (Total)	0.2	0.05	0.05	**0.354**		**0.693**		**0.204**		**0.618**	
Manganese (Dissolved)	0.2	0.05	0.05	**0.319**		**0.688**		**0.221**		**0.680**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	8.04		0.592		30.9		**290**	
TPH-DRO (C10-C22)	32	NV	NV	6.31		0.729		2.47		9.32	
TPH-ORO (>C22-C36)	32	NV	NV	0.48	U	0.095	U	0.48	U	0.48	U
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	0.55		0.059	U	-0.49		0.64	
Iron, Ferrous	NV	0.3	0.3	0.71		0.38		0.62		0.24	
Nitrogen, Ammonia	NV	NV	NV	0.4		0.094	J	0.066	J	0.31	
Nitrogen, Nitrate	10	10	NV	0.50	U	1.2		1.3	U	0.50	U
Nitrogen, Total Kjeldahl	NV	NV	NV	2.6		1.2		1.5		1.8	
Solids, Total Dissolved	1,000	500 [4]	NV	**3,470**		**2,630**		**3,340**		**3,740**	
Sulfate	NV	250	17,419	1,990		1,620		1,540		1,920	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-1A
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 1 Monitoring (August 2013)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22		SS17-MW23		SS17-MW23A	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Basewide Background Levels	FA7028-5		FA7028-1		FA7028-3	
Date Sampled:				8/5/2013		8/5/2013		8/5/2013	
Analyte				Result[3]	Q	Result[3]	Q	Result[3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	0.0003	J	**0.3510**		**0.3320**	
n-Butylbenzene	NV	NV	NV	0.0002	U	0.0010	U	0.0010	U
sec-Butylbenzene	NV	NV	NV	0.0002	U	0.0011	U	0.0011	U
Ethylbenzene	0.70	0.70	NV	0.0003	U	0.0018	J	0.0017	J
Isopropylbenzene	NV	NV	NV	0.0002	U	0.0010	U	0.0010	U
Naphthalene	30.00	0.10	NV	0.0010	U	0.0050	U	0.0050	U
n-Propylbenzene	NV	NV	NV	0.0002	U	0.0011	U	0.0011	U
Toluene	0.75	1.00	NV	0.0002	U	0.0022	J	0.0021	J
m,p-Xylene	0.62	10.00	NV	0.0003	U	0.0015	U	0.0015	U
o-Xylene	0.62	10.00	NV	0.0002	U	0.0010	U	0.0010	J
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.0007	U	0.0007	U	0.0009	J
2,6-Dinitrotoluene	NV	NV	NV	0.0008	U	0.0019	J	0.0012	J
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.0011	U	0.0011	U	0.0011	U
1-Methylnaphthalene	NV	NV	NV	0.0007	U	0.0010	J	0.0009	J
2-Methylnaphthalene	NV	NV	NV	0.0007	U	0.0007	U	0.0007	U
Naphthalene	0.030	NV	NV	0.0006	U	0.0011	J	0.0009	J
Phenol	0.005	NV	NV	0.0005	U	0.0043	J	0.0034	J
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	**1.740**		**15.600**		**26.700**	
Manganese (Total)	0.2	0.05	0.05	**5.220**		**3.220**		**3.180**	
Manganese (Dissolved)	0.2	0.05	0.05	**4.840**		**2.880**		**3.010**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	0.0535	J	0.729		0.745	
TPH-DRO (C10-C22)	32	NV	NV	0.096	U	3.79		5.06	
TPH-ORO (>C22-C36)	32	NV	NV	0.143	J	1.06	J	1.24	
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	0.79		10.8		23.3	
Iron, Ferrous	NV	0.3	0.3	0.95		4.8		3.4	
Nitrogen, Ammonia	NV	NV	NV	0.11		2.0		2.1	
Nitrogen, Nitrate	10	10	NV	5.0	U	2.5	U	2.5	U
Nitrogen, Total Kjeldahl	NV	NV	NV	1.3		5.0		4.7	
Solids, Total Dissolved	1,000	500[4]	NV	**7,520**		**6,520**		**5,870**	
Sulfate	NV	250	17,419	3,540		3,930		3,800	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-1B
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 2 Monitoring (November 2013)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05		SS17-MW07		SS17-MW08		SS17-MW21		SS17-MW22	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Basewide Background Levels	FA9884-1		FA9884-2		FA9938-1		FA9938-2		FA9938-3	
Date Sampled:				11/11/2013		11/11/2013		11/11/2013		11/12/2013		11/12/2013	
Analyte				Result[3]	Q	Result[3]	Q	Result[3]	Q	Result[3]	Q	Result[3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	**0.0110**	U	0.0002	U	**0.0110**	U	**54.4000**		**0.1620**	B
n-Butylbenzene	NV	NV	NV	0.0178	J	0.0002	U	0.0188		0.2000	U	0.0002	J
sec-Butylbenzene	NV	NV	NV	0.0141	J	0.0056		0.0186		0.2100	U	0.0002	U
Ethylbenzene	0.70	0.70	NV	**3.4500**		0.0046		**4.3700**		**5.8600**		0.0304	
Isopropylbenzene	NV	NV	NV	0.0906		0.0008	J	0.1190		0.2000	U	0.0010	J
Naphthalene	30.00	0.10	NV	**0.7320**		0.0027	J	**0.5800**		**1.0000**	U	0.0045	J
n-Propylbenzene	NV	NV	NV	0.2780		0.0008	J	0.4420		0.4820		0.0031	
Toluene	0.75	1.00	NV	0.0100	U	0.0004		0.0121	J	**56.1000**		0.1990	B
m,p-Xylene	0.62	10.00	NV	0.4690		0.0017	J	**5.7300**		**16.3000**		0.0801	
o-Xylene	0.62	10.00	NV	0.0100	U	0.0005	J	0.0149	J	**7.5500**		0.0360	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.0029	U	0.0007	U	0.0029	U	0.0180	U	0.0007	U
2,6-Dinitrotoluene	NV	NV	NV	0.0031	U	0.0008	U	0.0031	U	0.0190	U	0.0008	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.0289		0.0011	U	0.0074	J	0.0384	J	0.0011	U
1-Methylnaphthalene	NV	NV	NV	0.0463		0.0007	U	0.0390		0.2890		0.0018	J
2-Methylnaphthalene	NV	NV	NV	0.0439		0.0007	U	0.0335		0.5880		0.0033	J
Naphthalene	0.030	NV	NV	**0.2820**		0.0023	J	**0.2270**		**1.0900**		0.0118	
Phenol	0.005	NV	NV	0.0021	U	0.0005	U	0.0021	U	**0.0130**	U	0.0005	U
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	**1.680**		0.459		0.092	J	**1.440**		**3.510**	
Manganese (Total)	0.2	0.05	0.05	**0.389**		**0.586**		**0.203**		**0.261**		**5.240**	
Manganese (Dissolved)	0.2	0.05	0.05	**0.385**		**0.567**		**0.187**		**0.247**		**5.300**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	9.01		0.393		15.9		**256**		0.928	
TPH-DRO (C10-C22)	32	NV	NV	3.13		0.636		9.50		10.4		0.404	
TPH-ORO (>C22-C36)	32	NV	NV	0.96	U	0.097	U	0.95	U	0.95	U	0.225	J
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	1.50		0.059	U	0.092	J	1.2		0.33	U
Iron, Ferrous	NV	0.3	0.3	0.23		0.52		0.030	U	0.21		6.4	
Nitrogen, Ammonia	NV	NV	NV	0.5		0.15		0.43		0.46		0.13	
Nitrogen, Nitrate	10	10	NV	1.30	U	1.5		1.3	U	1.3	U	5.0	U
Nitrogen, Total Kjeldahl	NV	NV	NV	1.5		0.56		1.4		1.8		1.2	
Solids, Total Dissolved	1,000	500[4]	NV	**3,640**		**2,750**		**4,040**		**3,540**		**8,440**	
Sulfate	NV	250	17,419	2,010		1,640		1,890		1,840		4,050	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-1B
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 2 Monitoring (November 2013)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22-A		SS17-MW23	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA9938-4		FA9938-5	
Date Sampled:				11/12/2013		11/12/2013	
Analyte				Result [3]	Q	Result [3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L	
Benzene	0.010	0.005	NV	**0.2320**	C	**0.0600**	
n-Butylbenzene	NV	NV	NV	0.0010	U	0.0002	U
sec-Butylbenzene	NV	NV	NV	0.0011	U	0.0002	U
Ethylbenzene	0.70	0.70	NV	0.0404	C	0.0112	
Isopropylbenzene	NV	NV	NV	0.0010	U	0.0004	J
Naphthalene	30.00	0.10	NV	0.0050	U	0.0014	J
n-Propylbenzene	NV	NV	NV	0.0027	J	0.0010	J
Toluene	0.75	1.00	NV	0.3070	C	0.0866	
m,p-Xylene	0.62	10.00	NV	0.0934	C	0.0309	
o-Xylene	0.62	10.00	NV	0.0421	C	0.0136	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.0007	U	0.0007	U
2,6-Dinitrotoluene	NV	NV	NV	0.0008	U	0.0008	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.0011	U	0.0011	U
1-Methylnaphthalene	NV	NV	NV	0.0024	J	0.0013	J
2-Methylnaphthalene	NV	NV	NV	0.0040	J	0.0023	J
Naphthalene	0.030	NV	NV	0.0144		0.0064	
Phenol	0.005	NV	NV	0.0005	U	0.0005	U
Metals	mg/L	mg/L	mg/L	mg/L		mg/L	
Iron (Total)	1.00	0.30	3	**4.260**		**0.846**	
Manganese (Total)	0.2	0.05	0.05	**5.270**		**2.970**	
Manganese (Dissolved)	0.2	0.05	0.05	**5.280**		**3.040**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	1.34		0.343	
TPH-DRO (C10-C22)	32	NV	NV	0.446		1.74	
TPH-ORO (>C22-C36)	32	NV	NV	0.278		0.879	
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	1.9		0.85	
Iron, Ferrous	NV	0.3	0.3	2.4		0.030	U
Nitrogen, Ammonia	NV	NV	NV	0.19		0.53	
Nitrogen, Nitrate	10	10	NV	5.0	U	9.3	J
Nitrogen, Total Kjeldahl	NV	NV	NV	1.4		3.0	
Solids, Total Dissolved	1,000	500 [4]	NV	**8,230**		**7,200**	
Sulfate	NV	250	17,419	3,990		2,930	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-1C
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 3 Monitoring (February 2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05		SS17-MW05A		SS17-MW07	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA12333-5		FA12333-6		FA12333-1	
Date Sampled:				2/7/2014		2/7/2014		2/7/2014	
Analyte				Result [3]	Q	Result [3]	Q	Result [3]	Q
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**	
Benzene	0.010	0.005	NV	**0.0119**	J	0.00079	J	0.00024	U
n-Butylbenzene	NV	NV	NV	0.0131	J	0.01230	U	0.00030	U
sec-Butylbenzene	NV	NV	NV	0.0125	J	0.01210		0.00350	
Ethylbenzene	0.70	0.70	NV	**3.1300**		**1.95000**	B	0.00028	
Isopropylbenzene	NV	NV	NV	0.0866		0.08570		0.00020	
Naphthalene	30.00	0.10	NV	**0.5040**		**0.32200**	C	0.00110	J
n-Propylbenzene	NV	NV	NV	0.2600		0.22200	C	0.00024	U
Toluene	0.75	1.00	NV	0.0258	U	0.00320		0.00020	U
m,p-Xylene	0.62	10.00	NV	0.4170		0.33000	C	0.00048	U
o-Xylene	0.62	10.00	NV	0.0086	J	0.00350		0.00020	U
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**	
2,4-Dimethylphenol	NV	NV	NV	0.00047	U	0.00047	U	0.00047	U
2,6-Dinitrotoluene	NV	NV	NV	0.00059	U	0.00063	J	0.00059	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.00150	U	0.00250	J	0.00150	U
1-Methylnaphthalene	NV	NV	NV	0.05560		0.06520		0.00047	U
2-Methylnaphthalene	NV	NV	NV	0.03130		0.03810		0.00050	U
Naphthalene	0.030	NV	NV	**0.22800**	A	**0.29600**	A	0.00047	U
Phenol	0.005	NV	NV	0.00047	U	0.00047	U	0.00047	U
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**	
Iron (Total)	1.00	0.30	3	**0.972**		0.900		0.295	J
Manganese (Total)	0.2	0.05	0.05	**0.219**		**0.183**		**0.529**	
Manganese (Dissolved)	0.2	0.05	0.05	**0.191**		**0.163**		**0.501**	
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**	
TPH-GRO (C6-C10)	32	NV	NV	9.30		0.359		0.427	
TPH-DRO (C10-C22)	32	NV	NV	2.92		3.83		0.724	
TPH-ORO (>C22-C36)	32	NV	NV	0.38	U	0.447	J	0.121	J
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**		**mg/L**		**mg/L**	
Iron, Ferric	NV	0.3	0.3	0.20	J	0.17	U	0.047	U
Iron, Ferrous	NV	0.3	0.3	0.77		1.3		0.28	
Nitrogen, Ammonia	NV	NV	NV	0.39		0.46		0.086	J
Nitrogen, Nitrate	10	10	NV	0.50	U	0.50	U	0.74	J
Nitrogen, Total Kjeldahl	NV	NV	NV	1.8		1.8		1.1	
Solids, Total Dissolved	1,000	500 [4]	NV	**3,230**		**3,180**		**2,500**	
Sulfate	NV	250	17,419	1,860		1,870		1,540	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NM

TABLE 5-1C
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 3 Monitoring (February 2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW08		SS17-MW21		SS17-MW22		SS17-MW23	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Basewide Background Levels	FA12286-1		FA12333-2		FA12256-1		FA12256-2	
Date Sampled:				2/6/2014		2/6/2014		2/5/2014		2/5/2014	
Analyte				Result[3]	Q	Result[3]	Q	Result[3]	Q	Result[3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	0.0049	U	**53.600**	C	0.00052	J	0.00088	J
n-Butylbenzene	NV	NV	NV	0.0076	J	0.060	U	0.00	U	0.00030	U
sec-Butylbenzene	NV	NV	NV	0.0168	J	0.054	U	0.00027	U	0.00027	U
Ethylbenzene	0.70	0.70	NV	**3.5800**	A	**6.700**		0.00	J	0.00230	
Isopropylbenzene	NV	NV	NV	0.1390		0.200	U	0.00	J	0.00020	U
Naphthalene	30.00	0.10	NV	**0.6080**		**0.148**	J	0.0	U	0.00100	U
n-Propylbenzene	NV	NV	NV	0.4600		0.574		0.00024	U	0.00024	U
Toluene	0.75	1.00	NV	0.0155	J	**53.100**	C	0.00	U	0.00020	U
m,p-Xylene	0.62	10.00	NV	**4.3200**	A	**17.900**		0.00	U	0.00048	U
o-Xylene	0.62	10.00	NV	0.0177	J	**8.450**		0.00	U	0.00020	U
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.0019	U	0.0139	J	0.00047	U	0.00047	U
2,6-Dinitrotoluene	NV	NV	NV	0.0023	U	0.0059	U	0.00059	U	0.00059	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.0059	U	0.0150	U	0.00150	U	0.00150	U
1-Methylnaphthalene	NV	NV	NV	0.0337		0.0240	J	0.00047	U	0.00047	U
2-Methylnaphthalene	NV	NV	NV	0.0223		0.0419	J	0.00050	U	0.00050	U
Naphthalene	0.030	NV	NV	**0.1990**		**0.2740**		0.00047	U	0.00047	U
Phenol	0.005	NV	NV	0.0019	U	**0.2710**		0.00047	U	0.00047	U
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	0.0455	J	**0.386**		**17.900**		**29.000**	
Manganese (Total)	0.2	0.05	0.05	**0.102**		**0.062**		**17.300**		**3.160**	
Manganese (Dissolved)	0.2	0.05	0.05	**0.115**		**0.066**		**5.400**		**2.650**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	32.1		**267**		0.0628		0.0752	J
TPH-DRO (C10-C22)	32	NV	NV	3.97		6.38		0.190	J	1.30	
TPH-ORO (>C22-C36)	32	NV	NV	0.95	U	0.96	U	0.289		1.16	
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	0.047	U	0.16	J	15.6		28.9	
Iron, Ferrous	NV	0.3	0.3	0.030	U	0.23		2.3		0.062	J
Nitrogen, Ammonia	NV	NV	NV	0.11		0.43		0.030	U	0.069	J
Nitrogen, Nitrate	10	10	NV	1.3	U	0.50	U	5.0	U	5.0	U
Nitrogen, Total Kjeldahl	NV	NV	NV	1.0		2.6		0.51	J	2.7	
Solids, Total Dissolved	1,000	500[4]	NV	**3,340**		**3,510**		**7,830**		**7,600**	
Sulfate	NV	250	17,419	1,690		1,650		4,130		3,000	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
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MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

6.2.3103

MED TPH Screening Guidelines

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NI

TABLE 5-1D
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 4 Monitoring (May 2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05		SS17-MW07		SS17-MW08		SS17-MW21	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA15429-2		FA15429-3		FA15429-4		FA-15429-1	
Date Sampled:				5/30/2014		5/30/2014		5/30/2014		5/29/2014	
Analyte				Result [3]	Q	Result [3]	Q	Result [3]	Q	Result [3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	**0.1240**		**0.0284**		**0.0213**	J	**45.7000**	
n-Butylbenzene	NV	NV	NV	0.0150	U	0.0006	U	0.0150		0.1500	U
sec-Butylbenzene	NV	NV	NV	0.0140	U	0.0024		0.0140		0.1400	U
Ethylbenzene	0.70	0.70	NV	**2.6800**		0.0573		**2.8800**		**3.7800**	
Isopropylbenzene	NV	NV	NV	0.0758		0.0023		0.0698		0.1000	U
Naphthalene	30.00	0.10	NV	**0.2140**	J	0.0097	J	**0.2420**	J	**0.5000**	U
n-Propylbenzene	NV	NV	NV	0.2210		0.0075		0.2180		0.1870	J
Toluene	0.75	1.00	NV	0.3610		0.1080		0.0876		**28.7000**	
m,p-Xylene	0.62	10.00	NV	0.6800		0.1260	J	**3.5800**		**92.9000**	
o-Xylene	0.62	10.00	NV	0.0778		0.0492	J	0.0496	J	**29.6000**	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.00048	U	0.00049	U	0.00050	J	0.0275	
2,6-Dinitrotoluene	NV	NV	NV	0.00060	U	0.00061	U	0.00060	U	0.0006	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.00150	U	0.00150	U	0.00061	U	0.0015	U
1-Methylnaphthalene	NV	NV	NV	0.06370		0.00160	J	0.04240		0.0247	
2-Methylnaphthalene	NV	NV	NV	0.02220		0.00052	U	0.03110		0.0351	
Naphthalene	0.030	NV	NV	**0.21500**	B	0.00620		**0.19600**	B	**0.2270**	A
Phenol	0.005	NV	NV	0.00048	U	0.00049	U	0.00048	U	**1.2200**	B
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	0.025	J	0.0911	J	0.0954	J	0.1540	J
Manganese (Total)	0.2	0.05	0.05	**0.176**		**0.5970**		**0.1560**		0.0279	
Manganese (Dissolved)	0.2	0.05	0.05	**0.172**		**0.5810**		**0.1670**		0.0339	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	8.42		1.09		16.1		**185**	
TPH-DRO (C10-C22)	32	NV	NV	3.96		0.635		3.90		10.5	
TPH-ORO (>C22-C36)	32	NV	NV	0.334	J	0.0549		0.308	J	0.775	J
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	0.047	U	0.091	J	0.095	J	0.15	J
Iron, Ferrous	NV	0.3	0.3	0.037	J	0.030	U	0.030	U	0.030	U
Nitrogen, Ammonia	NV	NV	NV	0.69		0.082	J	0.35		0.82	
Nitrogen, Nitrate	10	10	NV	0.50	U	0.75	J	0.50	U	0.50	U
Nitrogen, Total Kjeldahl	NV	NV	NV	1.5		0.65		1.2		3.5	
Solids, Total Dissolved	1,000	500 [4]	NV	**3,120**		**2,460**		**3,170**		**3,290**	
Sulfate	NV	250	17,419	1,910		1,660		1,870		1,820	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-1D
Summary of Groundwater Analytical Results
SS-17 Hits Only
Quarter 4 Monitoring (May 2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22		SS17-MW22-A		SS17-MW23	
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA15479-2		FA15479-3		FA15479-1	
Date Sampled:				6/2/2014		6/2/2014		6/2/2014	
Analyte				Result [3]	Q	Result [3]	Q	Result [3]	Q
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Benzene	0.010	0.005	NV	0.0004	J	0.0004	J	0.0008	J
n-Butylbenzene	NV	NV	NV	0.0003	U	0.0003	U	0.0003	U
sec-Butylbenzene	NV	NV	NV	0.0003	U	0.0003	U	0.0003	U
Ethylbenzene	0.70	0.70	NV	0.0012		0.0012		0.0105	
Isopropylbenzene	NV	NV	NV	0.0002	U	0.0002	U	0.0002	U
Naphthalene	30.00	0.10	NV	0.0010	U	0.0010	U	0.0010	U
n-Propylbenzene	NV	NV	NV	0.0003	J	0.0002	U	0.0003	J
Toluene	0.75	1.00	NV	0.0009	J	0.0008	J	0.0009	J
m,p-Xylene	0.62	10.00	NV	0.0021		0.0024		0.0024	
o-Xylene	0.62	10.00	NV	0.0010		0.0009	J	0.0012	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
2,4-Dimethylphenol	NV	NV	NV	0.00048	U	0.00048	U	0.00048	U
2,6-Dinitrotoluene	NV	NV	NV	0.00060	U	0.00060	U	0.00060	U
bis(2-Ethylhexyl) phthalate	NV	NV	NV	0.00150	U	0.00150	U	0.00150	U
1-Methylnaphthalene	NV	NV	NV	0.00048	U	0.00048	U	0.00048	U
2-Methylnaphthalene	NV	NV	NV	0.00051	U	0.00051	U	0.00051	U
Naphthalene	0.030	NV	NV	0.00061	J	0.00051	J	0.00066	J
Phenol	0.005	NV	NV	0.00048	U	0.00048	U	0.00048	U
Metals	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Iron (Total)	1.00	0.30	3	**5.060**		**5.000**		**0.555**	
Manganese (Total)	0.2	0.05	0.05	**5.090**		**5.100**		**1.780**	
Manganese (Dissolved)	0.2	0.05	0.05	**5.090**		**5.050**		**1.740**	
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
TPH-GRO (C6-C10)	32	NV	NV	0.0769	J	0.0775	J	0.142	
TPH-DRO (C10-C22)	32	NV	NV	0.257		0.241		1.32	
TPH-ORO (>C22-C36)	32	NV	NV	0.192		0.189		0.438	
General Chemistry	mg/L	mg/L	mg/L	mg/L		mg/L		mg/L	
Iron, Ferric	NV	0.3	0.3	0.33	U	0.047	U	0.48	
Iron, Ferrous	NV	0.3	0.3	5.7		5.2		0.072	J
Nitrogen, Ammonia	NV	NV	NV	0.23		0.47		0.40	
Nitrogen, Nitrate	10	10	NV	2.5	U	5.0	U	1.3	U
Nitrogen, Total Kjeldahl	NV	NV	NV	2.0		1.7		2.1	
Solids, Total Dissolved	1,000	500 [4]	NV	**7,240**		**7,280**		**4,630**	
Sulfate	NV	250	17,419	3,830		3,900		2,900	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected

[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] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Secondary Drinking Water Standard
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines

TABLE 5-2
Summary of Soil Analytical Results
SS-17 Hits Only
Annual Monitoring (2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	SS17-SB301-8			SS17-SB301-8A			SS17-SB302-8			SS17-SB303-8		
Lab Sample Identification:	NMED Residential Levels[1]	FA17017-1			FA17017-2			FA17017-3			FA17017-4		
Date Sampled:		7/29/2014			7/29/2014			7/29/2014			7/29/2014		
Analyte		Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	mg/kg	mg/kg			mg/kg			mg/kg			mg/kg		
Benzene	15.4	0.839	J		1.180			**176.000**			0.001	J	
n-Butylbenzene	3,400	8.610			8.130			15.000	b		0.001	U	
sec-Butylbenzene	NV[4]	4.640			4.880			6.720	b		0.001	U	
Ethylbenzene	69.6	**163.000**	A		**127.000**	A		**329.000**			0.001	U	
Isopropylbenzene	3,210	17.300			14.300	A		19.800	b		0.001	U	
Naphthalene	45	**49.100**			34.600	A		**67.400**			0.003	U	
n-Propylbenzene	NV[4]	62.900			49.100	A		95.400			0.001	U	
1,2,4-Trimethylbenzene	62	**237.000**	A		**171.000**	A		**406.000**			0.001	U	
1,3,5-Trimethylbenzene	780	64.300			54.600	A		133.000			0.001	U	
Toluene	5,270	23.600			25.100	A		1000.000			0.002	J	
m,p-Xylene	NV[4]	115.000			97.700	A		956.000			0.002	U	
o-Xylene	898	107.000			86.600	A		368.000			0.001	U	
Semi-volatile Organic Compounds	mg/kg	mg/kg			mg/kg			mg/kg			mg/kg		
bis(2-Ethylhexyl) phthalate	347	0.044	U		0.045			0.045	U		0.039	U	
1-Methylnaphthalene	160	1.410			1.250			3.000			0.020	U	
2-Methylnaphthalene	230	0.167	J	J	1.300		J	6.650	A		0.020	U	
Naphthalene	43	0.316		J	1.070		J	8.540	A		0.020	U	
Phenol	18,300	0.022	U		0.022	U		0.425			0.020	U	
Total Petroleum Hydrocarbons	mg/kg	mg/kg			mg/kg			mg/kg			mg/kg		
TPH-GRO (C6-C10)	1000	**4,650**		J	**4,100**		J	**14,500**		J	3.98	J	J
TPH-DRO (C10-C22)	1000	436			290			951			4.58		
TPH-ORO (>C22-C36)	1000	25	U		25	U		98	U		4.4	U	

Notes:

NMED = New Mexico Environmental Department
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No value
Q = Qualifier
U = Not detected
J = Estimated value

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (June, 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] No Value established for NMED Residential SSL (August, 2009) and USEPA RSL (April, 2009)
Bold - indicates analytes above the NMED SSLs
A = Result is from Run #2
b = Result is from Run #2

TABLE 5-2
Summary of Soil Analytical Results
SS-17 Hits Only
Annual Monitoring (2014)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	SS17-SB304-10			SS17-SB305-8			SS17-SB306-10		
Lab Sample Identification:	NMED Residential Levels[1]	FA17017-5			FA17017-6			FA17017-7		
Date Sampled:		7/29/2014			7/29/2014			7/29/2014		
Analyte		Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**		
Benzene	15.4	0.060	U		0.064	U		0.055	U	
n-Butylbenzene	3,400	1.260			13.300	A		0.350		
sec-Butylbenzene	NV[4]	0.823			5.840			1.250		
Ethylbenzene	69.6	22.900	A		**110.000**	B		0.322		
Isopropylbenzene	3,210	2.150			12.300			0.055	U	
Naphthalene	45	0.343			**61.700**	B		4.400		
n-Propylbenzene	NV[4]	7.280			79.200	B		0.055	U	
1,2,4-Trimethylbenzene	62	0.374			**384.000**	B		0.058	J	
1,3,5-Trimethylbenzene	780	0.060	U		132.000	B		65.500	A	
Toluene	5,270	0.060	U		0.064	U		0.055	U	
m,p-Xylene	NV[4]	0.473	J		331.000	B		0.087	U	
o-Xylene	898	0.079	J		0.975			0.059	U	
Semi-volatile Organic Compounds	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**		
bis(2-Ethylhexyl) phthalate	347	0.043	U		0.044	U		0.042	U	
1-Methylnaphthalene	160	1.730			3.680			0.253		
2-Methylnaphthalene	230	0.021	U		7.710	A		0.021	U	
Naphthalene	43	1.570			6.850	A		0.059	J	
Phenol	18,300	0.021	U		0.022	U		0.021	U	
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**		
TPH-GRO (C6-C10)	1000	474		J	**6,430**			**1,330**		J
TPH-DRO (C10-C22)	1000	957			946			293		
TPH-ORO (>C22-C36)	1000	95	U		98	U		23	U	

Notes:
NMED = New Mexico Environmental Department
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No value
Q = Qualifier
U = Not detected
J = Estimated value

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (June, 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] No Value established for NMED Residential SSL (August, 2009) and USEPA RSL (April, 2009)
Bold - indicates analytes above the NMED SSLs
A = Result is from Run #2
b = Result is from Run #2

Table 6-1
Summary of Groundwater Analytical Results Above Action Levels
SS-17 Quarters 1 through 4
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

		VOCs (mg/L)						SVOCs (mg/L)		Metals (mg/L)			General Chemistry (mg/L)	
Monitoring Well	**Date Sampled**	**Benzene**	**Ethylbenzene**	**Toluene**	**Naphthalene**	**m,p-xylene**	**o-xylene**	**Napthalene**	**Phenol**	**Iron (total)**	**Manganese (total)**	**Manganese (dissolved)**	**TPH-GRO**	**TDS**
SS17-MW05	8/6/13	**0.011 U**	**2.96**	0.0258	**0.635**	0.00030 U	0.0116 J	**0.383**	0.0021	**1.260**	**0.354**	**0.319**	8.04	**3,470**
	11/11/13	**0.011 U**	**3.45**	0.010 U	**0.732**	0.469	0.010 U	**0.282**	0.0021 U	**1.680**	**0.389**	**0.385**	9.01	**3,640**
	2/7/14	**0.0119**	**3.13**	0.0258	**0.504**	0.417	0.0086 J	**0.228**	0.00047 U	**0.972**	**0.216**	**0.191**	9.30	**3,230**
	5/30/14	**0.124**	**2.68**	0.361	**0.214 J**	0.68	0.0778	**0.215**	0.00048 U	0.0245 J	**0.176**	**0.172**	8.42	**3,120**
SS17-MW07	8/6/13	0.00072	0.0163	0.0015	0.0011 J	0.0015 U	0.00061 J	0000.61 U	0.00053 U	0.215 J	**0.693**	**0.688**	0.592	**2,630**
	11/11/13	0.00021	0.0046	0.00044	0.0027 J	0.0017 J	0.00050 J	0.0023	0.00052	**0.459**	**0.586**	**0.567**	0.393	**2,750**
	2/7/14	0.00024	0.00028	0.00020 U	0.0011 J	0.00048 U	0.00020 U	0.00047 U	0.00047 U	0.295	**0.529**	**0.501**	0.427	**2,500**
	5/30/14	**0.0284**	0.0573	0.108	0.0097 J	0.126 J	0.0492 J	0.0062	0.00049 U	0.0911 J	**0.597**	**0.581**	1.09	**2,460**
SS17-MW08	8/6/13	**0.011 U**	**4.13**	0.0226 J	**0.415**	**4.580**	0.0164 J	**0.274**	0.0021	0.134 J	**0.204**	**0.221**	30.9	**3,340**
	11/11/13	**0.011 U**	**1.37**	0.0121 J	**0.580**	**5.730**	0.0149	**0.227**	0.0021	0.0923 J	**0.203**	**0.187**	15.9	**4,040**
	2/6/14	0.004.9 U	**3.58**	0.0155 J	**0.608**	**4.320**	0.0177 J	**0.199**	0.0019 U	0.0455 J	**0.102**	**0.115**	32.1	**3,340**
	5/30/14	**0.0213**	**2.88**	0.0876	**0.242 J**	**3.580**	0.0496 J	**0.196**	0.00048 U	0.0954 J	**0.156**	**0.167**	16.1	**3,170**
SS17-MW21	8/5/13	**49.80**	**7.72**	**67.80**	**0.277**	**21.400**	**9.49**	**0.277**	**0.0509**	**0.882**	**0.618**	**0.680**	**290**	**3,740**
	11/12/13	**54.40**	**5.86**	**56.10**	**1.000**	**16.300**	**7.55**	**1.090**	**0.013 U**	**1.440**	**0.261**	**0.247**	**256**	**3,540**
	2/7/14	**53.60**	**6.70**	**53.10**	**0.148 J**	**17.900**	**8.45**	**0.274**	**0.271**	**0.386**	**0.0622**	**0.0655**	**267**	**3,510**
	5/29/14	**45.70**	**3.78**	**28.70**	**0.500 U**	**9.290**	**2.96**	**0.227**	**1.220**	**0.154 J**	0.028	**0.0339**	**185**	**3,290**
SS17-MW22	8/5/13	0.00025 J	0.00029 U	0.00020 U	0.0010 U	0.00030 U	0.00020 U	0.00061 U	0.00053 U	**1.74**	**5.22**	**4.84**	0.0535 J	**7,520**
	11/12/13	**0.162**	0.0304	0.199	0.0045 J	0.0801	0.036	0.0118	0.00052	**3.51**	**5.24**	**5.30**	0.928	**8,440**
	2/5/14	0.00052 J	0.00030 J	0.00020 U	0.0010 U	0.00048 U	0.00020 U	0.00047 U	0.00047 U	**17.90**	**17.30**	**5.40**	0.0628 J	**7,830**
	6/2/14	0.00044 J	0.0012	0.00085 J	0.0010 U	0.0021	0.001	0.00061 J	0.00048 U	**5.06**	**5.09**	**5.09**	0.0769 J	**7,240**
SS17-MW23	8/5/13	**0.351**	0.0018 J	0.0022 J	0.0050 U	0.0015 U	0.0010 U	0.0011 J	0.0043 J	**15.6**	**3.22**	**2.88**	0.729	**6,520**
	11/12/13	**0.06**	0.0112	0.0866	0.0014 J	0.0309	0.0136	0.0064	0.00052	**0.846**	**2.97**	**3.04**	0.343	**7,200**
	2/5/14	0.00088 J	0.0023	0.00020 U	0.0010 U	0.00048 U	0.00020 U	0.00047 U	0.00047 U	**29.0**	**3.16**	**2.65**	0.0752 J	**7,600**
	6/2/14	0.00078 J	0.0105	0.00094 J	0.0010 U	0.0024	0.0012	0.00066 J	0.00048 U	**0.555**	**1.78**	**1.74**	0.142	**4,630**

Notes:
mg/L = milligrams per liter
J = Indicates an estimated value
NS = Not Sampled
ND = Not detected
VOC = Volatile Organic Compounds
Table presents metals that are considered contaminants of concern

MCL = Maximum Contaminant Level
NMED = New Mexico Environment Department
USEPA = U.S. Environmental Protection Agency
TDS = Total Dissolved Solids
TPH = Total Petroleum Hydrocarbons
U = Below detection Limit