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March 8, 2016

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NMED
Hazardous Waste Bureau

Holloman Air Force Base
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

Attn: 49 CES/CEIE Adam Kusmack

Subject: Final SS-17 (AOC-Q) Long Term Monitoring Annual Report 2015

Mr. Kusmack:

NationView is pleased to provide the enclosed *Final SS-17 Long Term Monitoring Annual Report, Quarters 5-8*. We greatly appreciate this opportunity. Please feel free to contact me if you have any questions, my direct number is (205) 930-9494.

Best,

David D. Martin

David D. Martin
President

Enclosure

Attachments

Distribution List

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TECHNICAL REVIEW COMMENTS
SS-17 (AOC-Q) DRAFT ANNUAL REPORT 2015
HOLLOMAN AFB, NEW MEXICO

Reviewer	Organization	Item	Section	Page	Para, sentence	Comment	A, D, E, or NFD	Response	A or D
Thomason	USACE, Omaha	1	3.2.1	3-2		Comparison to the 2012 RSLs is noted if an NMED SSL is not available. Recommend comparison to the most recent version of the RSLs.		To ensure continuity of the document with the workplan and 2014 Annual LTM Report, the text has been chhanged to "consistent with the SACM Workplan (NationView, 2013), in absence of a NMED SSL, the constituent will be compared to the USEPA RSLs (USEPA, 2012) current at the time of document production."	Verified, Complete
Thomason	USACE, Omaha	2	3.1	3-1 and 3-2	All	Each reference to the USEPA MCLs cites the 2009 version. Recommend using the most recent version of the MCLs for comparison. If the 2009 version is required to be used by the permit, clarify this information.		The 2009 USEPA National Primary Drinking Water Regulations (USEPA, 2009) Maximum Contaminant Levels (MCLs) remain the most current drinking water standards.	Verified Complete (Footnote)
Thomason	USACE, Omaha	3	4.3.1	4-3	Last sentence of the section	Please clarify the reference to “following paragraphs”. Is this intended to reference paragraphs in Appendix F containing a synopsis of each analyte group? I could not locate this information in Appendix F or in the paragraphs that follow Section 4.3.1.		Appendix G shows the Laboratory Data Validation Reports for the water and soil. The last sentence of Section 4.3.1 was changed to read, "Information regarding the precision, accuracy, representativeness, and completeness is provided in the Data Validation Reports (Appendix G)".	Verified Complete
Thomason	USACE, Omaha	4	4.3.2	4-3	General	Section 4.3.1 provides general statements regarding data validation for the groundwater analyses. If data validation was performed for the soil samples, please provide similar information in Section 4.3.2.		Section 4.3.2 was changed to include, "All of the laboratory data generated during these quarterly events were validated by the project chemist. Field QA/QC samples, including trip blanks and duplicates were collected to document field and laboratory QA/QC. Analytical data packages are provided as Appendix F and the Data Validation Reports are included in Appendix G. 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 G)".	Verified Complete
Thomason	USACE, Omaha	5	Appendix G			Provide titles and footnotes for the tables at the front of Appendix G or delete the tables if they do not belong.		Tables in Appendix H have been adjusted to ensure titles and footnotes.	Verified Complete
Thomason	USACE, Omaha	6	5.1.1	5-1 thru 5-3	General	Check all text in this section, which consistently indicates that the concentrations of VOCs exceeded the Secondary MCL. Per Section 3.1, these concentrations should be compared to the NMWQCC values and Primary MCLs.		Section 5.1.1 has been updated to include. "The following subsections provide a summary of results for VOCs as compared to the lowest value identified by NMWQCC groundwater standard and/or USEPA Primary and Secondary MCL for groundwater". Data located in the bulleted sections have been corrected to state the appropriate MCL (Primary or Secondary) exceeded, as required.	Verified Complete
Thomason	USACE, Omaha	7	Figure 5-1D		General	I found it awkward to review this information broken up into four different drawings. Consider finding another way to depict this information, or at least put the VOC/SVOC information on a separate drawing.		Figures have been seperated. VOCs above action levels are identified in Figure 5-1D, SVOCs above action levels are identified in Figure 5-1E and MNAs above MCLs are identified in Figure 5-1F.	Verified Complete

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SS-17 (AOC-Q) DRAFT ANNUAL REPORT 2015
HOLLOMAN AFB, NEW MEXICO

Reviewer	Organization	Item	Section	Page	Para, sentence	Comment	A, D, E, or NFD	Response	A or D
Thomason	USACE, Omaha	8	Section 3.1.4 and Sections 5.1.3 and 5.1.5			Section 3.1.4 Monitored Natural Attenuation Parameters identifies nitrate, sulfate, iron, and manganese. Clarify if all are considered MNA parameters. Sections 5.1.3 and 5.1.5 identify metals and Nitrate in separate sections. I could not locate a discussion of sulfate. Discuss sulfate in Section 5. Recommend consistency in the way you categorize and discuss these constituents between Sections 3 and 5.			Verified Complete
Geibel	USACE, Omaha	9	1	1-1	1st, 2nd	It is stated that "…remediation of the inaccessible area of petroleum…" I am not sure it is appropriate to state some of the area is inaccessible with current technology. May want to restate "of the difficult area" or something along these lines or even delete.		Sentenced has been changed to read, "and the continued remediation of the difficult to access areas of petroleum contaminated soils (PCS) located beneath First Street ".	Verified Complete
Geibel	USACE, Omaha	10	4	4-1	Bullet list	It would be very helpful for understanding the use of the data if rationale for each is generally discussed in the bullets. (More concise rational for each data point or groups of data points could be discussed in results section or other.)		Rationale for the quarterly, annual and soil samples have been added to the bulleted sections, and read as follows: • Groundwater level measurements, sampling, and laboratory analysis (VOCs, SVOCs, and TPH) for three quarters (August 2014, November 2014, and February 2015) were conducted at the 6 monitoring well locations included in the quarterly monitoring program (Figure 2-5A). Groundwater analysis was used to evaluate the AESIB system effectiveness in the six downgradient wells closest to Injection Zones A and B. • Groundwater level measurements, sampling, and laboratory analysis for one quarter (May 2015) was performed at the 23 monitoring well locations included in the annual monitoring program (Figure 2-5B). Data was used to identify the current extent of the plume in groundwater. • Soil boring advancement, sampling, and laboratory analysis (VOCs, SVOCs, and TPH-GRO, DRO, and ORO) was performed at the 6 locations included in the annual monitoring program (May 2015) (Figure 4-1). Soil borings were located in close proximity to prior excavation sidewall sample locations associated with October 2012 excavation sampling. Samples were collected to assess current soil contaminant levels and associated degradation of chemicals of concern at the prior excavation sidewall locations.	Verified Complete

TECHNICAL REVIEW COMMENTS
SS-17 (AOC-Q) DRAFT ANNUAL REPORT 2015
HOLLOMAN AFB, NEW MEXICO

Reviewer	Organization	Item	Section	Page	Para, sentence	Comment	A, D, E, or NFD	Response	A or D
Geibel	USACE, Omaha	11	4.4	4-3	General	Were the 6 soil boring locations surveyed? If so may want to mention in this section or explain why not and how they were located.		Section 4.4 was changed to read, "The six (6) annual soil boring locations were surveyed by NationView personnel utilizing a hand held Trimble® global positioning system device (TSC1 Datalogger). The location of the 2014 annual borings had been collected and recorded, and northing-easting data utilized in the placement of the 2015 annual soil borings. Soil borings were placed approximately six inches apart, in order to compare the soil boring results from 2014 to 2015. 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 +/- 1.00 meter. A qualified surveyor was not utilized, due to limited requirement for vertical control as associated with NAVD. No wells were constructed at soil boring sites, depth to groundwater was measured from the top of the soil boring. ".	Verified Complete
Geibel	USACE, Omaha	12	4.4	4-4	2nd, last	Would measuring the groundwater levels while the system is operating, in addition to when it is shut down, provide data on the area the system is directly influencing (just a though for the future)?		Groundwater levels at the SS-17 site were collected with the system off, allowing for groundwater equilibraiton and maintenance and repair to the AISEB system. Trinity will recommend that the groundwater levels be collected both while the system is running and after the system has been turned off. This recomendation will be included in the corrective measures report.	Verified Complete
Geibel	USACE, Omaha	13	6.2	6-11	1st bullet/general	In this bullet it is stated that the soil sample was collected at 7-ft bgs. For the current and baseline/past soil samples should include a statement about the relation to groundwater (was it taken from the vadose, smear, or saturated zone).		All soil samples were collected from the saturated zone, and the text for soil sample discussion has been adjusted with the inclusion of "All samples from the SS17-SB301 (or representative sample number) location were collected from the Saturated Zone".	Verified Complete
Geibel	USACE, Omaha	14	7.2.2	7-2	General	To indicate the influence of the AISEB system could a figure be presented that shows the extent the system is influencing the groundwater via MNA parameters and other parameters? This will help evaluate the remedial impact of the area and future optimization plans.		"Comparisons of the quarterly MNA data to the baseline (June 2013) results are summarized in analytical graphs included in Appendix A, Figures 6-1 (Total Iron), 6-2 (Dissolved Manganese), 6-3 (Nitrates) and 6-4 (Sulfates). These figures show the extent the system is influencing groundwater via MNA parameters.", has been added to Section 7.2.2. Graphic tables showing the changes in MNA parameters at the six quarterly wells have been added to the figures.	Verified Complete

TECHNICAL REVIEW COMMENTS
SS-17 (AOC-Q) DRAFT ANNUAL REPORT 2015
HOLLOMAN AFB, NEW MEXICO

Reviewer	Organization	Item	Section	Page	Para, sentence	Comment	A, D, E, or NFD	Response	A or D
Geibel	USACE, Omaha	15	7.2.2	7-2	2n/last	In addition to the oxygen injected into the aquifer, would injection of other nutrients provide for a more efficient remedial system? May want to assess.		The LTM Report will identify the current effects that the AISEB system has had on the petroleum plume. The Corrective Measures Report and Risk Assessment will address and make recommendations for other remedies.	Verified Complete
Geibel	USACE, Omaha	16	7.3	7-3	General	For increasing or decreasing concentration discussion, would the location of the soil sample with respect to groundwater influence soil results (groundwater transporting in more or less contaminant mass thereby changing concentrations, or groundwater impacting soil that was previously sampled when dry)? May want to add to discussion.		"Based upon soil sample collection depth, all soil samples were collected from the Saturated Zone. Due to the depths of sample collection, groundwater movement may influence the reduction or increase of contaminant levels due to movement of the residual contaminant mass through the soils. ", has been added to Section 7.3.	Verified Complete
Geibel	USACE, Omaha	17	7		General	Based on the 8 quarters of data are there any recommendations that can be made for monitoring or system operation at this time. If so, please add into a RECOMMENDATIONS section.		Recommendations for monitoring and system operation have been added to the document.	Verified Complete
Geibel	USACE, Omaha	18	Figure 2-3			Is the red line the actual site boundary or a boundary where some sort of soil/groundwater treatment has occurred. (It seems squiggly for a site boundary.)		The identified SS-17 site boundaries west of First Street are the extents of the soils excavations that have a occurred at the site (2004 - 2012). Excavations did not extend under or beyond First Street. The site boundaries to the east of First Street have been extended to include the AISEB injection location.	Verified Complete
Geibel	USACE, Omaha	19	Figure 5-2A		General	It would be good for determining the effectiveness of the remedial system and MNA if a baseline figure could be included for qualitative comparison to current conditions.		MNA baseline data (based upon date of installtion) for groundwater is identified in analytical graphs included in Appendix A, Figures 6-1 (Total Iron), 6-2 (Dissolved Manganese), 6-3 (Nitrates) and 6-4 (Sulfates). These figures show the extent the system is influencing groundwater via MNA parameters.	Verified Complete
Geibel	USACE, Omaha	20	Figure 5-4A			Please note that "Long" is misspelled in the title block. Also in other figures. Please check all figures for spelling.		Figures have been updated, to ensure corect spelling.	Verified Complete
Geibel	USACE, Omaha	21	Appendix D			Please provide the signature of the inspector in block 23 of the drill logs.		Signature of the inspector has been added to all boring logs.	Verified Complete
Renaghan	AFCEC	2				Is it possible to have a long term trend analyses shown on a graph showing hydrocarbons (soil & water) from past years including this year?		A long term groundwater trend anlaysis graph (Hydrocarbons), for the six quarterly wells has been added to the document (Figure 6-3 Total Petroleum Hydrocarbon Concentration Trends in SS-17 Monitoring Wells). A soils graph would only have three points, with the 2011 data collected from points on the excavtion sidewall. Therefore a trend graph for soils has not been included in the document.	Verified Complete

TECHNICAL REVIEW COMMENTS
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Reviewer	Organization	Item	Section	Page	Para, sentence	Comment	A, D, E, or NFD	Response	A or D
Renaghan	AFCEC	23				Are the metals a concern, or do we think they are natural? We should note high metals up gradient so they are probably natural.		Section changed to read, "Manganese was detected in the groundwater samples collected from seventeen monitoring wells at concentrations above the USEPA Secondary MCL and the NMWQCC. Concentrations were reported as 0.200 mg/L at SS17-MW05 and 8.16 mg/L at MW-BX-02). The presence of elevated 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".	Veriefied Complete
Renaghan	AFCEC	24				Sec 2.3 any data on the system including down time? We need to show some sort of maintenance logs or inspection logs to get a full understanding of the run times.		Appendix C, SS-17 Operations and Maintenance Logs, has been added to the document. Logs identify run time, down time and maintenance requiremnts for the AESIB treartment system.	Verified Complete
Renaghan	AFCEC	25				In sec 3.1.3 we say EPA MCL are the action level for TDS- What exactly does that mean, to the public it means we have to clean up to 500 ppm		Text has been changed to, "There are also two applicable standards for TDS, the NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103) and the USEPA's National Secondary Drinking Water Regulations (NSDWRs) MCLs (USEPA, 2009). The lower of the two standards, is the USEPA Secondary MCL (SMCL) of 500 mg/L. The USEPA has established NSDWRs that set non-mandatory water quality standards. The USEPA does not enforce the SMCLs, since they are established only as guidelines to assist public water systems in managing drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at the SMCL. "	Verified Complete
Renaghan	AFCEC	26				5.1.6 I would like to delete the last sentence		Sentence has been deletd.	Verified Complete
Renaghan	AFCEC	27				of Sec 5.1.6. - no other section has a discussion on exposure pathways, and the plume does not reach a drinking/irrigation water supply well. So while the water < 10,000ppm is potentially drinkable there is no complete exposure pathway.		Section has been deleted, entirely.	Verified Complete

* Response to comments have been reviewed and accepted by representatives of USACE [N. Geibels (Geologist), P. Thomason (Scientist) and M. Mercier (PM)], AFCEC (B. Renaghan) and HAFB ERP Manager (Chuck Schick).

- FINAL -
SS-17 (AOC - Q)
LONG TERM MONITORING
ANNUAL REPORT - 2015
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared For:

49 CES/CEIE
Holloman Air Force Base
New Mexico

Under Contract to:

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

Contract No. W9128F-09-D-0055
Delivery Order 004

March 2016

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- FINAL -
SS-17 (AOC – Q)
LONG TERM MONITORING
ANNUAL REPORT - 2015
HOLLOMAN AIR FORCE BASE, NEW MEXICO

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Appendix H – Tables

ACRONYMS

Accutest	Accutest Laboratories
amsl	above mean sea level
AOC	Area of Concern
AISEB	Aerobic In Situ Enhanced Bioremediation
b	Laboratory Qualifier denoting Results reported from Run #2
bgs	below ground surface
Bhate	Bhate Environmental Associates Inc.
BX	Base Exchange
COC	contaminant of concern
1,2-DCA	1,2 dichlorethane
°C	Degrees Celsius
ERP	Environmental Restoration Program
ft	feet or foot
FWENC	Foster Wheeler Environmental Corporation
HAFB	Holloman Air Force Base
HHMSSL	Human Health Medium Specific Screening Level
IDW	investigative derived waste
J	Laboratory Qualifier denoting an estimated result
LTM	Long Term Monitoring
MCL	Maximum Contaminant Level
MDL	method detection limit
mg/L	milligram per liter
MNA	Monitored Natural Attenuation
mV	millivolts
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&M	Operations and Maintenance
%D	Percent Difference
PCS	petroleum contaminated soil
PID	photoionization detector
PRG	Preliminary Remediation Goal
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RBC	Risk Based Concentration
RPD	relative percent difference
RSL	Regional Screening Level
SACM	Supplemental Accelerated Corrective Measures
SOP	Standard Operating Procedure

SVOC	semi-volatile organic compound
TAL	Target Analyte List
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRINITY	Trinity Analysis & Development Corp.
U	Laboratory Qualifier denoting the chemical Below the Detection Limit
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
WHA	Walk, Haydel & Associates
WWTP	Wastewater Treatment Plant

1 INTRODUCTION

NationView, LLC (NationView), has been retained by the United States Army Corps of Engineers (USACE), under contract W9128F-09-D-0055, Task Order No. 0006, to perform Long Term Monitoring (LTM) at Environmental Restoration Program (ERP) Site SS-17 (Area of Concern [AOC]-Q) at Holloman Air Force Base (HAFB), New Mexico. This LTM Annual Report documents groundwater monitoring events for Quarters 5 through 8 (August 2014, November 2014, February 2015, and May 2015), subsurface soil sampling (May 2015), remediation system operations and maintenance (O&M), and the continued remediation of the difficult to access areas of petroleum contaminated soils (PCS) located beneath First Street using Aerobic In-Situ Enhanced Bioremediation (AISEB) at ERP Site SS-17 at Holloman AFB, New Mexico. NationView has subcontracted Trinity Analysis and Development Corp., (TRINITY), under Consultant Services Agreement No. 0415-7006-001, to assist in O&M activities, field activities, and report preparation.

The primary objectives of this annual progress report are to discuss remediation system O&M, the most recent monitoring events, and related findings as they pertain to the corrective measures and their effects on site restoration. This LTM Annual Report will be utilized to aid in the creation of a site specific risk assessment that will be included in the SS-17 Supplemental Accelerated Corrective Measures (SACM) Report; to be produced at the completion of eight quarters of sampling events (2013–2015). The ACM 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 SACM Report will incorporate a Risk Based Evaluation to address any residual contaminant impact apparent in the groundwater.

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 – Field Activities
- Section 5 – Analytical Results
- Section 6 – Comparison of Annual Sample Results to SS-17 Baseline Results
- Section 7 – Conclusions and Recommendations
- 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

Holloman AFB 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).

Current facilities adjacent to the SS-17 site 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 located 200 ft to the southwest. 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 (*Walk, Haydel & Associates [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 BX 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 (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 Environmental Associates Inc. [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)*
- *SS-17 (AOC - Q) Long Term Monitoring Annual Report – 2014, Holloman Air Force Base, New Mexico (NationView, 2014)*

The Basewide LTM program was designed as a 10-year program with monitoring performed once every two years at multiple sites across HAFB. 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, groundwater samples collected from monitoring wells at SS-17 were analyzed for volatile organic compounds (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, MW-BX-01, MW-BX-02, and W-4. Of the three monitoring wells sampled during the 2005 LTM, only groundwater from one well (MW-BX-02) had contaminant concentrations (benzene and 1,2-dichlorethane [1,2-DCA]) above applicable action levels. 1,2-DCA was historically utilized as an anti-knock additive in leaded fuels (spill occurred during 1970's – 1980's).

Excavations of petroleum contaminated soils were conducted between August 2003 and December 2012. PCS excavation operations were conducted in a series of annual removal actions which were initiated in 2003 and have continued to the present day. To determine the effectiveness of the PCS removal actions, confirmation samples were collected from the sidewalls and bottom of the excavations and analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC) and TPH in accordance with the Revised Final Letter Work Plan for Petroleum Contaminated Soil Excavation at SS-17, FT-31, and West POL Yard, Holloman Air Force Base, New Mexico (FWENC, 2003). PCS contaminated soils were transported offsite to either, the NMED permitted FT-31 Landfarm, or the Rhino Environmental Landfarm, located in Otero County, New Mexico.

Due to an insufficient number of monitoring wells (3) comprising 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 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).

In June 2012, the 22 wells were sampled for analysis of VOCs, semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), Target Analyte List (TAL) metals, TDS, and monitored natural attenuation (MNA) parameters. The primary contaminants of concern (COCs) detected in the 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.

PCS removal actions (2012) were completed subsequent to the demolition of the former Thrift Shop (Figure 2-4). During demolition of the former Thrift Shop (Bldg. 19) SS17-MW12 was destroyed (August 24-26, 2012). NMED, in correspondence dated October 5, 2012 (NMED, 2012b) requested soil samples be 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.

An AISEB treatment system was installed at the SS-17 Site and began operation in May 2013 (The AISEB system is described in greater detail in Section 2.3). NationView installed monitoring wells at the northern and southern extents of the AISEB treatment zones (SS17-MW21 and SS17-MW23) and SS17-MW22 northwest of the former Thrift Shop (Bldg 19) location, in order to replace SS17-MW12, which was destroyed during the demolition of the former. SS17-MW21 through SS17-MW23 were installed in May 2013.

In accordance with the Supplemental Accelerated Corrective Measures Work Plan, SS-17 (NationView, 2013), six wells (MW-05, MW-07, MW-08, MW-21, MW-22 and MW-23; shown on Figure 2-5A) were sampled quarterly (August 2013, November 2013, February 2014, and May/June 2014) for VOCs, SVOCs, TPH, TAL metals, TDS, and MNA parameters. These events constituted Quarters 1 through 4. Based on the results of prior sampling activities (August 2011 through May 2012 [Refer to Appendix B, SACM 2013 Tables 2-8 through 2-10 for historic groundwater and soils data]), the primary COCs 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 quarterly monitoring events identified that the distribution of groundwater contamination remained centered within the

northeastern portions of the SS-17 site, along First Street. Figure 2-5B (Appendix A) depicts the current SS-17 monitoring well network (23 wells[1]).

In May 2014, NationView conducted annual soil sample collection #1, at six soil boring locations in the northeast portions of the SS-17 site, along the walkway that borders First Street. The analytical results support the findings that the contamination is centered along First Street, in the northeastern portions of the SS-17 site. 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.

2.3 Treatment System and Injection Wells

NationView prepared the SACM Work Plan (USACE Contract Number W9128F-09-D-0055, Task Order 0004), to perform remedial actions at ERP Site SS-17. The selected SS-17 remedy in place included 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 February 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 soils in the difficult to access areas (beneath First Street and utility corridors) 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 cubic yards) 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.

[1] MW-12 was destroyed during the demolition of the former BX, August 2012. MW-15 was destroyed during electrical construction activities, May 2015. MW-15 was not included in the Annual sampling event.

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.

Operations and Maintenances records and inspection logs for the SS-17 site and AESIB treatment system and trailer are located in Appendix C (SS-17 System Operations and Maintenance Logs).

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3 APPLICABLE SCREENING CRITERIA

The analytical data collected during the quarter 5 through 8 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 5 – QTR 8) conducted August 2014 through May 2015.

3.1 Groundwater Screening Criteria

3.1.1 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 USEPA National Primary Drinking Water Regulations (USEPA, 2009[2]) 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.

3.1.2 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 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.

3.1.3 Total Dissolved Solids

There are also two applicable standards for TDS, the NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103) and the USEPA's National Secondary Drinking Water Regulations (NSDWRs) MCLs (USEPA, 2009). The lower of the two standards, is the USEPA Secondary MCL (SMCL) of 500 mg/L. The EPA has established NSDWRs

[2] The 2009 USEPA National Primary Drinking Water Regulations Maximum Contaminant Levels remain the most current drinking water standards.

that set non-mandatory water quality standards. The EPA does not enforce the SMCLs, since they are established only as guidelines to assist public water systems in managing drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at the SMCL.

3.1.4 Monitored Natural Attenuation Parameters

Several MNA analyses will be compared to applicable groundwater standards. Detections of nitrate, sulfate, and iron 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 these standards will be used as action levels.

Unfiltered (total) manganese will be compared to the USEPA Secondary Drinking Water Regulation MCLs (USEPA, 2009 and the NMED Approved Background Levels for Unfiltered (Total) Constituents in Groundwater (Table 2, NMED 2011b).

Filtered (dissolved manganese) will be compared to the USEPA Secondary Drinking Water Regulation MCLs (USEPA, 2009) and NMED Approved Background Levels for Filtered (Dissolved) Constituents in Groundwater (Table 3, NMED 2011b).

3.2 Soil Screening Criteria

3.2.1 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[3]. 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). To ensure consistency with the SACM Workplan (NationView, 2013) and SS-17 Annual LTM Report (2014), constituents with no identified NMED SSL will be compared to the USEPA RSLs (USEPA, 2012); which were current at the time of SACM production.

[3] NMED issued new Risk Assessment Guidance for Site Investigations and Remediation (December 2014). However, due to inception date of ongoing project, Soil Screening Levels and primary action levels for VOCs and SVOCs in groundwater will be assessed against 2012 NMED guidance, as identified in the SACM Workplan.

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 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]).

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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.

Therefore, in order to accomplish the objectives of the SS-17 LTM program, in accordance with the Supplemental Accelerated Corrective Measures Work Plan, the following field activities were performed from August 2014 through May 2015 constituting Quarters 5 through 8:

- Groundwater level measurements, sampling, and laboratory analysis (VOCs, SVOCs, and TPH) for three quarters (August 2014, November 2014, and February 2015) were conducted at the 6 monitoring well locations included in the quarterly monitoring program (Figure 2-5A). Groundwater analysis was used to evaluate the AESIB system effectiveness in the six downgradient wells closest to Injection Zones A and B.
- Groundwater level measurements, sampling, and laboratory analysis for one quarter (May 2015) was performed at the 23 monitoring well locations included in the annual monitoring program (Figure 2-5B). Data was used to identify the current extent of the plume in groundwater.
- Soil boring advancement, sampling, and laboratory analysis (VOCs, SVOCs, and TPH-GRO, DRO, and ORO) was performed at the 6 locations included in the annual monitoring program (May 2015) (Figure 4-1). Soil borings were located in close proximity to prior excavation sidewall sample locations associated with October 2012 excavation sampling. Samples were collected to assess current soil contaminant levels and associated degradation of chemicals of concern at the prior excavation sidewall locations.

4.1 Groundwater Sampling

Groundwater samples were collected on August 26-27, 2014 (Quarter #5, Summer 2014), November 20-24, 2014 (Quarter #6, Fall 2014), February 3-5, 2015 (Quarter #7, Winter 2015) from the wells included in the quarterly monitoring program, and May 18-21, 2015 (Quarter #8, Spring 2015) from the wells included in the annual monitoring program. Monitoring well locations are illustrated on Figures 2-5A (quarterly wells) and 2-5B (annual wells).

Prior to sampling, depth to static water was measured in each well included in the sampling event; Tables 4-1A, 4-1B, 4-1C, and 4-2D provide depth to water measurements and calculated groundwater elevations for Quarters 5 through 8, respectively. 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 and the potentiometric flow.

Monitoring well purging was completed using 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 D contains groundwater sampling forms for Quarters 5 through 8.

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 turbidity 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. Field filtering was not conducted on the groundwater samples. Groundwater Sample Collection Forms are included as Appendix D.

Groundwater samples were collected and submitted to Accutest Laboratories (Accutest) in Orlando, Florida for analysis of VOCs (Method 8260B); SVOCs (Method 8270D); TPH-GRO, DRO, and ORO (Method 8015C); Biological Oxygen Demand (BOD) (Method SM5210 B-11); Chemical Oxygen Demand (Method SM5220 C-11); ferric and ferrous iron (Method SM3500FE B-11); ammonia (Method 350.1); Total Kjeldahl nitrogen (Method 351.2); nitrate and sulfate (Method 300); and TDS (Method SM2540 C-11). Samples selected for laboratory analysis were labeled, handled, and prepared for shipment in accordance with NationView SOP No. 1.

4.2 Soil Sampling

A total of six (6) soil borings (SS17-SB301 to SS17-SB306) were advanced to a maximum depth of 18 ft bgs (approximately 10-12 ft below groundwater surface) 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]).

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. Appendix E contains the soil boring logs associated with Quarter 8.

Soil samples were collected and submitted to Accutest for analysis of VOCs (Method 8260B); SVOCs (Method 8270D); and TPH-GRO, DRO, and ORO (Method 8015C). Samples selected for laboratory analysis were labeled, handled, and prepared for shipment in accordance with HAFB SOP No. 1.

4.3 Laboratory Analysis and Data Validation

4.3.1 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 8270D (groundwater)
- Total Metals (Iron and Manganese) by Method 6010C (groundwater)
- Dissolved Metals (Manganese) by Method 6010C (groundwater)
- TPH-GRO, -DRO, -ORO by Method 8015C (groundwater)
- MNA Parameters: Iron (ferrous and ferric) by Method SM3500FE; ammonia by Method 350.1; nitrate and sulfate by Method 300; Total Kjeldahl nitrogen by Method 352.1
- 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 as Appendix F and the Data Validation Reports are included as Appendix G. 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 G).

4.3.2 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 sample collected from each boring location being analyzed for the following:

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

All of the laboratory data generated during the sampling event was validated by the project chemist. Field QA/QC samples, including trip blanks and duplicates were collected to document field and laboratory QA/QC. Analytical data packages are provided as Appendix F and the Data Validation Reports are included in Appendix G. Accutest in Orlando, Florida performed the analysis of all soil samples collected.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the Data Validation Reports (Appendix G).

4.4 Surveying and Groundwater Elevations

Monitoring wells used for the potentiometric surface map were initially surveyed by a qualified surveyor using a Trimble® global positioning system device 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 sampling events are included in Appendix H, Table 4-1D.

To determine the quarterly groundwater flow direction at Site SS-17, depth to water was measured in the 6 wells included in the quarterly monitoring program on August 27, 2014, November 20, 2014 and February 3, 2015 (Quarters 5 through 7, respectively). Annual groundwater flow direction was determined based on depth to water measurements collected in the 23 wells included in the annual monitoring program on May 19, 2015 (Quarter 8). To avoid inaccurate measurements, the AESIB system was turned off and groundwater allowed to equilibrate prior to measurement of depth to groundwater. The system was restarted once water level measurements had been collected.

Static water elevations, calculated based on depths to water measured from the top of casings, ranged from 4064.648 ft above mean sea level (amsl) at monitoring well SS17-MW22 to 4066.552 ft amsl at SS17-MW08 during Quarter 5; from 4065.308 ft amsl at monitoring well SS17-MW22 to 4066.793 ft amsl at SS17-MW05 during Quarter 6; from 4065.178 ft amsl at monitoring well SS17-MW22 to 4067.013 ft amsl at SS17-MW05, during Quarter 7; and from 4063.030 ft amsl at monitoring well SS17-MW20 to 4067.947 ft amsl at W-4 during Quarter 8. Groundwater elevation data for Quarters 5 through 8 is provided on Tables 4-1A through 4-1D, respectively. Potentiometric surface maps of SS-17 for each quarter are presented as Figures 4-2A through 4-2D. For each quarter, the groundwater flow direction at SS-17 is primarily to the southwest towards the single-family housing, as has been consistent with Quarters 1-4.

The six (6) annual soil boring locations were surveyed by NationView personnel utilizing a hand held Trimble® global positioning system device (TSC1 Datalogger). The location of the 2014 annual borings had been collected and recorded, and northing-easting data utilized in the placement of the 2015 annual soil borings. Soil borings were placed six inches apart, in order to compare the soils boring results from 2014 to 2015. 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 +/- 1.00 meter. A qualified surveyor was not utilized, due to limited requirement for vertical control as associated with NAVD. No wells were constructed at soil boring sites, depth to groundwater was measured from the top of the soil boring.

4.5 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).

4.6 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 and the Basewide QAPP (Bhate, 2003).

Decontamination and purge waters from groundwater sampling were locally contained in 55-gallon steel drums and conveyed to a 300-gallon storage tank located on the installation. The 300-gallon storage tank is maintained by NationView, pending laboratory analysis, until disposal through the HAFB Wastewater Treatment Plant (WWTP) is permitted. All purge water has now been disposed at the WWTP.

Spoils associated with soil boring activities (annual soil sample collection) were containerized and shipped to the FT-38 Landfarm. Approximately 0.50 cubic feet of soils were spread onsite and aerated.

4.7 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 *Final Supplemental Accelerated Corrective Measure Work Plan SS-17 BX Gas Station Fuel Leak, Holloman Air Force Base, New Mexico* (NationView, 2013).

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5 ANALYTICAL RESULTS

5.1 Groundwater Analytical Results

Seven (7) groundwater samples (including one duplicate) were collected from the 6 monitoring wells during each of the three annual LTM events (Quarters 5-7), while twenty-five (25) groundwater samples (including two duplicates) were collected from the 23 monitoring wells during the Quarter 8 sampling event. 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 each of the quarterly sampling events (Quarters 5 through 8).

The following subsections provide a summary of results for VOCs as compared to the lowest value identified by NMWQCC groundwater standard and/or USEPA Primary and Secondary MCL for groundwater.

- **Quarter 5 (August 2014)** Benzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.005 mg/L). Concentrations were reported as 0.0061 U mg/L SS17-MW05, 0.012 U mg/L at SS17-MW07, and 31.30 mg/L at SS17-MW21.

  Ethylbenzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.70 mg/L). Concentrations were reported as 1.860 mg/L SS17-MW05, 4.200 mg/L at SS17-MW08, and 3.80 mg/L at SS17-MW21.

  Naphthalene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.10 mg/L). Concentrations were reported as 0.333 mg/L SS17-MW05, 0.401 mg/L at SS17-MW07, and 0.50 U mg/L at SS17-MW21.

  Toluene was detected in SS17-MW21 at concentrations above the USEPA Primary MCL (1.00 mg/L) as 26.00 mg/L.

  M,p-xylene was detected in the groundwater samples collected from two monitoring wells SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (10 mg/L) or NMWQCC groundwater standard (0.62 mg/L).

Concentrations were reported as 4.170 mg/L at SS17-MW08 and 10.40 mg/L at SS17-MW21.

O-xylene was detected with concentrations that exceed the NMWQCC (0.62 mg/L) in monitoring well SS17-MW21 as 3.45 mg/L.

- **Quarter 6 (November 2014)** Benzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.005 mg/L). Concentrations were reported as 0.0062 J mg/L SS17-MW05, 0.012 U mg/L at SS17-MW07, and 56.90 mg/L at SS17-MW21.

  Ethylbenzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.70 mg/L). Concentrations were reported as 1.750 mg/L SS17-MW05, 3.400 mg/L at SS17-MW08, and 4.59 mg/L at SS17-MW21.

  Naphthalene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.10 mg/L). Concentrations were reported as 0.419 mg/L SS17-MW05, 0.283 mg/L at SS17-MW07, and 0.50 U mg/L at SS17-MW21.

  Toluene was detected in SS17-MW21 at concentrations above the USEPA Primary MCL (1.00 mg/L) as 33.50 mg/L.

  M,p-xylene was detected in the groundwater samples collected from two monitoring wells SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (10 mg/L) or NMWQCC groundwater standard (0.62 mg/L). Concentrations were reported as 2.850 mg/L at SS17-MW08, and 13.00 mg/L at SS17-MW21.

  O-xylene was detected with concentrations that exceed the NMWQCC (0.62 mg/L) in monitoring well SS17-MW21 as 4.20 mg/L.

- **Quarter 7 (February 2015)** Benzene was detected in the groundwater samples collected from four monitoring wells SS17-MW05, SS17-MW07, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.005 mg/L). Concentrations were reported as 0.163 mg/L SS17-MW05, 0.0320 J mg/L SS17-MW07, 0.0071 mg/L at SS17-MW08, and 61.90 mg/L at SS17-MW21.

  Ethylbenzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.70 mg/L). Concentrations were reported as 1.700 mg/L SS17-MW05, 3.890 mg/L at SS17-MW08, and 5.220 mg/L at SS17-MW21.

  Naphthalene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations

above the USEPA Primary MCL (0.10 mg/L). Concentrations were reported as 0.183 mg/L SS17-MW05, 0.3820 mg/L at SS17-MW08, and 0.3987 J mg/L at SS17-MW21.

Toluene was detected in SS17-MW21 at concentrations above the USEPA Primary MCL (1.00 mg/L) as 50.50 mg/L.

M,p-xylene was detected in the groundwater samples collected from two monitoring wells SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (10 mg/L) or NMWQCC groundwater standard (0.62 mg/L). Concentrations were reported as 3.920 mg/L at SS17-MW08, and 14.00 mg/L at SS17-MW21.

O-xylene was detected with concentrations that exceed the NMWQCC (0.62 mg/L) in monitoring well SS17-MW21 as 6.220 mg/L.

- **Quarter 8 (May 2015)** Benzene was detected in the groundwater samples collected from five monitoring wells SS17-MW03, SS17-W4, SS17-MW06, SS17-MW21 and MW-BX-01 at concentrations above the USEPA Primary MCL (0.005 mg/L). Concentrations were reported as 1.37 mg/L SS17-MW03, 0.124 mg/L at SS17-MW04, 0.281 mg/L at SS17-MW06, 57.00 mg/L at SS17-MW21 and 0.185 mg/L at MW BX-01.

  Ethylbenzene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.70 mg/L). Concentrations were reported as 2.330 mg/L SS17-MW05, 4.580 mg/L at SS17-MW08, and 4.67 mg/L at SS17-MW21.

  Naphthalene was detected in the groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (0.10 mg/L). Concentrations were reported as 0.179 mg/L SS17-MW05, 0.317 mg/L at SS17-MW07, and 0.408 U mg/L at SS17-MW21.

  Toluene was detected in SS17-MW21 at concentrations above the USEPA Primary MCL (1.00 mg/L) as 50.40 mg/L.

  M,p-xylene was detected in the groundwater samples collected from two monitoring wells SS17-MW08 and SS17-MW21 at concentrations above the USEPA Primary MCL (10 mg/L) or NMWQCC groundwater standard (0.62 mg/L). Concentrations were reported as 4.720 mg/L at SS17-MW08, and 11.80 mg/L at SS17-MW21.

  O-xylene was detected with concentrations that exceed the NMWQCC standard (0.62 mg/L) in monitoring well SS17-MW21 as 5.31mg/L.

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. 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 quarterly sampling events (Quarters 5-8) at the SS-17 Site.

Four additional VOCs (n-butylbenzene, sec-butylbenzene, isopropylbenzene, and n-propylbenzene) were detected at concentrations above their respective MDLs. 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, fluorene, benzoic acid, dibenzofuran, 2,4-dimethylphenol, 2-methylphenol, 3&4-methylphenol, 2,6-dinitrotoluene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, bis(2-ethylhexyl)phthalate, phenanthrene, and phenol) were detected above the MDL in groundwater samples collected during the quarterly sampling events (Quarters 5 through 8).

It should be noted that the NMWQCC and USEPA have not established standards for acenaphthene, fluorene, benzoic acid, dibenzofuran, 2,4-dimethylphenol, 2-methylphenol, 3&4-methylphenol, 2,6-dinitrotoluene, 1-methylnaphthalene, 2-methylnaphthalene, bis(2-ethylhexyl)phthalate or phenanthrene. Only naphthalene and phenol are discussed in regards to values over NMWQCC standards of 0.03 mg/L and 0.005 mg/L, respectively.

- **Quarter 5 (August 2014)** Naphthalene was detected in groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the NMWQCC standard (0.03 mg/L). Concentrations were reported as 0.235 mg/L SS17-MW05, 0.275 mg/L at SS17-MW08 and 0.311 mg/L at SS17-MW21.

  Phenol was detected in groundwater samples collected from monitoring well SS17-MW21 at concentrations above the NMWQCC standard (0.005 mg/L). Concentrations were reported as 1.34 mg/L at SS17-MW21.

- **Quarter 6 (November 2014)** Naphthalene was detected in groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the NMWQCC standard (0.03 mg/L). Concentrations were reported as 0.284 mg/L SS17-MW05, 0.1650 mg/L at SS17-MW08 and 0.297 mg/L at SS17-MW21.

  Phenol was detected in groundwater samples collected from monitoring well SS17-MW21 at concentrations above the NMWQCC standard (0.005 mg/L). Concentrations were reported as 1.42 mg/L at SS17-MW21.

- **Quarter 7 (February 2015)** Naphthalene was detected in groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the NMWQCC standard (0.03 mg/L). Concentrations were reported as 0.274 mg/L SS17-MW05, 0.2100 mg/L at SS17-MW08 and 0.2980 mg/L at SS17-MW21.

Phenol was detected in groundwater samples collected from monitoring well SS17-MW21 at concentrations above the NMWQCC standard (0.005 mg/L). Concentrations were reported as 0.7480mg/L at SS17-MW21.

- **Quarter 8 (May 2015)** Naphthalene was detected in groundwater samples collected from three monitoring wells SS17-MW05, SS17-MW08 and SS17-MW21 at concentrations above the NMWQCC standard (0.03 mg/L). Concentrations were reported as 0.0774 mg/L SS17-MW05, 0.216 mg/L at SS17-MW08 and 0.393 mg/L at SS17-MW21.

  Phenol was detected in groundwater samples collected from monitoring well SS17-MW21 at concentrations above the NMWQCC standard (0.005 mg/L). Concentrations were reported as 0.807 mg/L at SS17-MW21.

5.1.3 Total Petroleum Hydrocarbons

The following subsections provide a summary of results for TPH compared to the NMWQCC Diesel #2/crankcase oil action level of 32 mg/L for groundwater.

- **Quarter 5 (August 2014)** Total TPH concentrations for SS17-MW21 were above the NMED TPH screening level and reported as 176.19 mg/L. Results from groundwater samples collected from the other 5 monitoring wells were below the action level.
- **Quarter 6 (November 2014)** Total TPH concentrations for SS17-MW21 were above the NMED TPH screening level and reported as 264.23 mg/L. Results from groundwater samples collected from the other 5 monitoring wells were below the action level.
- **Quarter 7 (February 2015)** Total TPH concentrations for SS17-MW21 were above the NMED TPH screening levels and reported as 247.47 mg/L. Results from groundwater samples collected from the other 5 monitoring wells were below the action level.
- **Quarter 8 (May 2015)** Total TPH concentrations for SS17-MW21 were above the NMED TPH screening levels and reported as 224.53 mg/L. Although the 8th quarter values were reduced from Quarters 6 and 7, Total TPH continues to be above the above the NMED screening levels for groundwater. Results from groundwater samples collected from the other 22 monitoring wells were below the action level.

5.1.4 Total Dissolved Solids

The following subsections provide a summary of results for TDS compared to the USEPA Secondary MCL of 500 mg/L for groundwater.

- **Quarter 5 (August 2014)** TDS was reported at concentrations ranging from 2,640 mg/L at SS17-MW08 to 7,640 mg/L at SS17-MW22 and exceeded screening criteria in all 6 wells sampled.

- **Quarter 6 (November 2014)** TDS was reported at concentrations ranging from 2,510 mg/L at SS17-MW08 to 8,250 mg/L at SS17-MW23 and exceeded screening criteria in all 6 wells sampled.
- **Quarter 7 (February 2015)** TDS was reported at concentrations ranging from 2,490 mg/L at SS17-MW08 to 7,650 mg/L at SS17-MW22 and exceeded screening criteria in all 6 wells sampled.
- **Quarter 8 (May 2015)** TDS was reported at concentrations ranging from 2,410 mg/L at SS17-MW08 to 11,400 mg/L at MW-BX-02 and exceeded screening criteria in all 23 wells sampled.

TDS concentrations are below 10,000 mg/L for all wells sampled during the Quarters 5, 6 and 7 sampling events. Twenty-one (21) of the twenty-three wells sampled during the Quarter 8 sampling event are identified as below 10,000 mg/L, however MW-BX-02 (11,400 mg/L) and SS17-MW13 (11,000 mg/L) exceed TDS concentrations of 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.

5.1.5 Monitored Natural Attenuation Parameters

5.1.5.1 Metals

Groundwater samples were analyzed for total (unfiltered) iron and total and dissolved (filtered) manganese. Total and dissolved manganese and total iron were detected at concentrations above their respective MDLs and 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 total metals which were detected above their applicable actions levels and NMED Approved Basewide Background levels.

- **Quarter 5 (August 2014)** Iron was detected in the groundwater samples collected from two monitoring wells at concentrations above the USEPA Secondary MCL (0.3 mg/L) and NMED Approved Basewide Background Level (0.30 mg/L). Concentrations were reported as 0.375 mg/L at SS17-MW21, and 6.06 mg/L at SS17-MW22. The iron concentration in monitoring well SS17-MW07 also exceeds the NMWQCC standard of 1 mg/L.

  Manganese was detected in groundwater samples collected from five of the six sampled monitoring wells at concentrations above the USEPA Secondary MCL (0.05 mg/L), NMED Approved Basewide Background Level (0.05 mg/L), and the NMWQCC standard (0.2 mg/L). Concentrations were reported as 0.253 mg/L at SS17-MW05, 0.374 mg/L at SS17-MW07, 5.04 mg/L at SS17-MW22, and 2.13 mg/L at SS17-MW23.

- **Quarter 6 (November 2014)** Iron was detected in the groundwater samples collected from two monitoring wells at concentrations above the USEPA Secondary MCL, NMED Approved Basewide Background Level, and the NMWQCC standard. Concentrations were reported as 6.74 mg/L at SS17-MW22 and 12.50 mg/L at SS17-MW23.

  Manganese was detected in groundwater samples collected from five of the six monitoring wells at concentrations above the USEPA Secondary MCL, the NMED Approved Basewide Background Level, and the NMWQCC standard. Concentrations were reported as 0.267 mg/L at SS17-MW05, 0.504 mg/L at SS17-MW07, 0.231 mg/L at SS17-MW08, 5.10 mg/L at SS17-MW22, and 3.73 mg/L at SS17-MW23.

- **Quarter 7 (February 2015)** Iron was detected in the groundwater samples collected from three monitoring wells at concentrations above the USEPA Secondary MCL and NMED Approved Levels. Concentrations were reported as 0.339 mg/L at SS17-MW07, 6.03 mg/L at SS17-MW22, and 10.90 mg/L at SS17-MW23. The iron concentrations in monitoring wells SS17-MW22 and SS17-MW23 also exceed the NMWQCC standard.

  Manganese was detected in groundwater samples collected from four of the six monitoring wells at concentrations above the USEPA Secondary MCL and NMWQCC standard. Concentrations were reported as 0.314 mg/L (SS17-MW05), 0.372 mg/L (SS17-MW07), 4.82 mg/L (SS17-MW22), and 2.36 mg/L (SS17-MW23).

- **Quarter 8 (May 2015)** Iron was detected in the groundwater samples collected from seven monitoring wells at concentrations above the USEPA Secondary MCL and NMED Approved Basewide Background Level. Concentrations were reported as 0.588 mg/L at SS17-MW03, 5.18 mg/L at SS17-MW06, 2.14 mg/L at SS17-MW10, 3.31 mg/L at SS17-MW11, 1.12 mg/L at SS17-MW14, 5.19 mg/L at SS17-MW22, 5.68 mg/L at SS17-MW23, and 0.987 mg/L at MW-BX-02. The iron concentrations in monitoring wells SS17-MW06, SS17-MW10, SS17-MW11, SS17-MW14, SS17-MW22, and SS17-MW 23 also exceed the NMWQCC standard.

Manganese was detected in the groundwater samples collected from seventeen monitoring wells at concentrations above the USEPA Secondary MCL and the NMWQCC. Concentrations were reported as 0.200 mg/L at SS17-MW05 and 8.16 mg/L at MW-BX-02).

The presence of elevated 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.

5.1.5.2 Nitrate

The following subsections provide a summary of results for nitrate compared to the USEPA Secondary MCL and NMWQCC standards of 10 mg/L for groundwater.

- **Quarter 5 (August 2014)** Nitrate was detected at concentrations above the MDL in samples collected from SS17-MW07 at 1.2 mg/L and SS17-MW23 at 13.00 mg/L. Of these, only the sample collected from SS17-MW-23 exceeded the screening criteria.
- **Quarter 6 (November 2014)** Nitrate was detected above the MDL in the sample collected from SS17-MW07 at an estimated concentration of 0.780 mg/L. No results exceeded the screening criteria.
- **Quarter 7 (February 2015)** Nitrate was detected above the MDL at in the sample collected from SS17-MW07 at a concentration of 2.80 mg/L. No results exceeded the screening criteria.
- **Quarter 8 (May 2015)** Nitrate was detected in ten monitoring wells at concentrations above the MDL. Nitrate concentrations did exceed the USEPA Secondary MCL (10 mg/L) in the following wells: 14.0 J mg/L (SS17-MW09), 10.0 U mg/L (SS17-MW10), 18.4 mg/L (SS17-MW16), 11.2 U mg/L (SS17-MW20), and 10.0 U mg/L (SS17-MW23). The laboratory qualifier "U" denotes the chemical was below the detection limit (due to dilution).

5.1.5.3 Sulfate

The following subsections provide a summary of results for sulfate compared to the USEPA Primary MCL (250 mg/L) and the NMED Approved Basewide Background Level of 17,419 mg/L for groundwater.

- **Quarter 5 (August 2014)** Sulfate was detected at concentrations above the USEPA Primary MCL in all samples collected from the SS17 quarterly monitoring wells (SS17-MW05, SS17-MW07, SS-17-MW08, SS-17-MW-21, SS17-MW22, and SS17-MW23) during Quarter 5. None of the samples collected from SS17 exceeded the NMED Approved Basewide Background Level during this quarter.
- **Quarter 6 (November 2014)** Sulfate was detected at concentrations above the USEPA Primary MCL in all samples collected from the SS17 quarterly monitoring wells (SS17-MW05, SS17-MW07, SS-17-MW08, SS-17-MW-21, SS17-MW22, and SS17-MW23) during Quarter 6. None of the samples collected from SS17 exceeded the NMED Approved Basewide Background Level during this quarter.
- **Quarter 7 (February 2015)** Sulfate was detected at concentrations above the USEPA Primary MCL in all samples collected from the SS17 quarterly monitoring wells (SS17-MW05, SS17-MW07, SS-17-MW08, SS-17-MW-21, SS17-MW22, and SS17-MW23) during Quarter 7. None of the samples collected from SS17 exceeded the NMED Approved Basewide Background Level during this quarter.
- **Quarter 8 (May 2015)** Sulfate was detected at concentrations above the USEPA Primary MCL in all samples collected from the SS17 monitoring well network (SS17-MW01, SS17-MW02, SS17-MW3, W-4, SS17-MW05, SS17-MW06, SS17-MW07, SS-17-MW08, SS17-MW09, SS17-MW10, SS17-MW11, SS17-MW13, SS17-MW14, SS17-MW16, SS17-MW17, SS17-MW18, SS17-MW19,

SS17-MW20, SS-17-MW-21, SS17-MW22, SS17-MW23, MW-BX-01, and MW-BX-02) during Quarter 8. None of the samples collected from SS17 exceeded the NMED Approved Basewide Background Level during this quarter.

5.2 Soil Analytical Results

Seven (7) soil samples (including one duplicate) were collected from the 6 borings advanced in May 2015 (Quarter 8), Figure 4-1 (Appendix A). Soil samples were analyzed for VOCs, SVOCs, and TPH-GRO, DRO, and 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 at concentrations above the MDL in soil samples collected during the annual soil sampling event. Constituents above the NMED Residential levels are identified below, by boring (NMED Residential levels are listed after contaminant concentration).

- **SS17-SB301:** ethylbenzene 73 mg/kg (69.6 mg/kg) and 1,2,4-trimethylbenzene 75.8 mg/kg (62 mg/kg);
- **SS17-SB302:** benzene 303 mg/kg (15.4 mg/kg), ethylbenzene 482 mg/kg (69.6), naphthalene 30 mg/kg (45 mg/kg), and 1,2,4-trimethylbenzene 582 mg/kg (62 mg/kg);
- **SS17-SB303:** No reported exceedances;
- **SS17-SB304:** No reported exceedances;
- **SS17-SB305:** 1,2,4-trimethylbenzene 89.5 mg/kg (62 mg/kg); and,
- **SS17-SB306:** No recorded exceedances.

5.2.2 Semi-Volatile Organic Compounds

Ten (10) SVOCs (acenaphthene, benzo(a)anthracene, chrysene, fluoranthene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene) were detected above the MDL in soil samples collected during the annual soil sampling event. No constituents were reported as exceeding the NMED Residential levels for any of the borings during this annual event.

5.2.3 Total Petroleum Hydrocarbons

The following subsections provide a summary of results for TPH compared to the NMED Diesel #2/crankcase oil action level of 1,000 mg/kg for soil.

- **SS17-SB301:** Total TPH 4,538 mg/kg;
- **SS17-SB302:** Total TPH 20,008 mg/kg;

- **SS17-SB303:** Total TPH 425 mg/kg (does not exceed the NMED total value);
- **SS17-SB304:** Total TPH 104 mg/kg (does not exceed the NMED total value);
- **SS17-SB305:** Total TPH 4,387 mg/kg; and,
- **SS17-SB306:** Total TPH 368 mg/kg (does not exceed the NMED total value).

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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 to the results of the baseline events (Appendix B, June 2011 [groundwater] and October/November 2012 [soil]) for the most frequently detected contaminants of concern (VOCs, SVOCs, Metals, Nitrates, TDS, and TPH). Monitoring wells SS17-MW21, SS17-MW22, and SS17-MW23 were added during the Quarter 1 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 during all 8 quarters of monitoring. 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 (benzene), 5-3E (ethylbenzene), 5-4E (m,p-xylene), and 5-5E (naphthalene). Groundwater analytical results which exceed action levels during Quarters 5-8 are identified below.

- **SS17-MW03:** The concentration of benzene has decreased from 2.200 mg/L (June 2011) to 1.37 mg/L during Quarter 8, but still exceeds USEPA MCL and NMWQCC standards.

  Naphthalene concentration has decreased from 0.0376 J mg/L (June 2011) to 0.0002 U mg/L during Quarter 8, and no longer exceeds the USEPA MCL and NMWQCC standards.

- **W-4:** The concentration of benzene has increased from 0.000049 U mg/L (June 2011) to 0.124 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.

  The ethylbenzene concentration increased from 0.00018 U mg/L (June 2011) to 0.0948 mg/L for Quarter 8, below remained below the USEPA MCL and NMWQCC standards.

  Naphthalene concentration decreased from 0.0376 J mg/L (June 2011) to 0.010 U mg/L in Quarter 8, and remains below the USEPA MCL and NMWQCC standards.

  The m,p-xylene concentration increased from 0.000099 U mg/L (June 2011) to 0.272 mg/L in Quarter 8, and remains below the USEPA MCL and NMWQCC standards

- **SS17-MW05:** The June 2011 benzene concentration is reported as 0.00098 U mg/L (June 2011). Benzene concentrations for Quarters 5-8 are reported as 0.0061 U mg/L, 0.0062 J mg/L, 0.163 mg/L, and 0.0002 U mg/L, respectively. Only quarter 7 exceeded the USEPA MCL and NMWQCC standards.

  The June 2011 ethylbenzene concentration is reported as 3.330 mg/L. Ethylbenzene concentrations for Quarters 5-8 are reported as 1.860 mg/L, 1.750 mg/L, 1.700 mg/L, and 2.330 b mg/L, respectively, with all four quarters exceeding the USEPA MCL and NMWQCC standards. The laboratory qualifier "b" denotes the result is from Run #2.

  Naphthalene concentration decreased from 0.475 mg/L (June 2011) to 0.333 mg/L, 0.419 mg/L, and 0.183 mg/L, and 0.149 mg/L during quarters 5-8. All samples exceed USEPA MCL and NMWQCC standards.

- **SS17-MW06:** The concentration of benzene increased from 0.0252 mg/L (June 2011) to 0.281 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.

  The ethylbenzene concentration decreased from 0.375 mg/L (June 2011) to 0.0783 mg/L for Quarter 8, remaining below the USEPA MCL and NMWQCC standards.

  Naphthalene concentration decreased from 0.0234 mg/L (June 2011) to 0.0065 J mg/L in Quarter 8, and remains below the USEPA MCL and NMWQCC standards.

  The m,p-xylene concentration increased from 0.0944 mg/L (June 2011) to 0.2070 mg/L in Quarter 8, and remains below the USEPA MCL and NMWQCC standards.

- **SS17-MW07:** The June 2011 benzene concentration is reported as 0.000049 U mg/L. Benzene concentrations for Quarters 5-8 are reported as 0.00024 U mg/L, 0.00024 U mg/L, 0.0320 mg/L, and 0.00020 U mg/L, respectively. Only quarter 7 exceeded the USEPA MCL and NMWQCC standards.

  The June 2011 ethylbenzene concentration is reported as 0.00018 U mg/L. Ethylbenzene concentrations for Quarters 5-8 are reported as 0.00028 U mg/L, 0.0046 mg/L, 0.0744 mg/L, and 0.0061 mg/L. Ethylbenzene concentrations are below the USEPA MCL and NMWQCC standards.

  Naphthalene concentration increased from 0.000175 U mg/L (June 2011) to 0.001 U mg/L, 0.0027 J mg/L, 0.0076 mg/L, and 0.0013 J mg/L during Quarters 5-8, which are below the USEPA MCL and NMWQCC standards.

- **SS17-MW08:** The concentration of benzene increased from 0.0049 mg/L (June 2011) to 0.012 U mg/L, 0.012 U mg/L, and 0.0071 mg/L during Quarters 5-7, and decreased to 0.0001 U mg/L during Quarter 8. Quarters 5, 6 and 8 show a "U" identifier, indicating that the compound was "non-detect" and reported at the MDL. Quarter 7 results show a value exceeding the USEPA MCL.

The ethylbenzene concentration decreased from 6.290 mg/L (June 2011) to 4.200 mg/L, 3.400 mg/L, 3.890 mg/L, and 4.580 b mg/L for quarters 5-8 respectively. Ethylbenzene concentrations continue to exceed the USEPA MCL and NMWQCC standards.

The naphthalene concentration decreased from 0.470 J mg/L (June 2011) to 0.401 mg/L, 0.283 mg/L, 0.382 mg/L, and 0.317 mg/L in Quarters 5-8, with all quarters exceeding the USEPA MCL and NMWQCC standards.

The m,p-xylene concentration (4.980 mg/L, June 2011) decreased in Quarters 5-8 to 4.170 mg/L, 2.850 mg/L, 3.920 mg/L, and 4.720 mg/L. All of the quarterly concentrations exceed the NMWQCC standards.

- **SS17-MW11:** The concentration of 1,2-DCA decreased from 0.0201 mg/L (June 2011) to 0.0082 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.
- **SS17-MW-21:** The concentration of benzene decreased from 49.800 mg/L (August 2013) to 31.300 mg/L during Quarter 5, then increased to 56.900 A mg/L, 61.900 b mg/L, and 57.000 b mg/L during Quarters 6-8. All quarters exceed USEPA MCL and NMWQCC standards.

  The ethylbenzene concentration decreased from 7.720 mg/L (August 2013) to 3.800 mg/L, 4.590 mg/L, 5.220 mg/L, and 4.670 b mg/L during quarters 5-8. All quarters exceed the USEPA MCL and NMWQCC standards.

  Naphthalene concentrations increased from 0.277 mg/L (August 2013) to 0.500 U mg/L, 0.500 U mg/L, 0.397 J mg/L and 0.408 mg/L in Quarters 5-8. All quarters exceed the USEPA MCL and NMWQCC standards, with Quarters 5 and 6 flagged as “non-detect” values.

  Toluene concentration decreased from 67.800 mg/L (August 2013) to 26.000 mg/L, 33.500 mg/L, 50.500 b mg/L, and 50.400 b mg/L during Quarters 5-8. All quarters exceed the USEPA MCL and NMWQCC standards.

  The m,p-xylene concentration decreased from 21.400 mg/L (August 2013) to 10.400 mg/L, 13.000 mg/L, 14.000 mg/L, and 11.800 b mg/L during Quarters 5-8. All quarters exceed the USEPA MCL and NMWQCC standards.

  The o-xylene concentration decreased from 9.490 mg/L (August 2013) to 3.450 mg/L, 4.200 mg/L, 6.220 mg/L, and 5.310 b mg/L during Quarters 5-8. All quarters exceed the NMWQCC standard.

  Due to the construction date of the well, no baseline data (June 2011) is available. Quarter 1 (August 2013) groundwater analytical results were considered baseline for this well, with comparison occurring during the following quarters.
- **SS17-MW22:** The concentration of benzene remained relatively unchanged from August 2013 through Quarters 5-8. All four quarters were below the USEPA MCL and NMWQCC standards, while Quarters 5 and 6 are estimated values.

The ethylbenzene concentration decreased from 0.00029 U mg/L (August 2013) to 0.00028 U mg/L, 0.00028 mg/L, 0.00020 J mg/L, and 0.00020 U mg/L during Quarters 5-8, while Quarter 7 is an estimated value.

Due to the construction date of the well, no baseline data (June 2011) is available. Quarter 1 (August 2013) groundwater analytical results were considered baseline for this well, with comparison occurring during the following quarters. All remaining VOCs had baseline and subsequent data that was reported as non-detects.

- **SS17-MW23:** The concentration of benzene decreased from 0.351 mg/L (August 2013) to 0.00059 J mg/L, 0.00063 J mg/L, 0.00020 U mg/L, and 0.00020 U mg/L during Quarters 5-8, while Quarters 5 and 6 are estimated values. All quarters were below the USEPA MCL and NMWQCC standards.

  The ethylbenzene concentration decreased from 0.0018 J mg/L (August 2013) to 0.00028 J mg/L, 0.00064 J mg/L, 0.00020 U mg/L, and 0.00024 J mg/L during Quarters 5-8 (concentrations do not exceed USEPA MCL and NMWQCC standards).

  Naphthalene concentrations were reported as 0.0050 U mg/L (August 2013) and at 0.0010 U mg/L for Quarters 5-8.

  The m,p-xylene concentrations ranged from 0.0015 U mg/L (August 2013) to 0.00048 U mg/L, 0.00180 J mg/L, 0.00031 U mg/L, and 0.00031 U mg/L during Quarters 5-8 (concentrations do not exceed the NMWQCC standards).

  Due to the construction date of the well, no baseline data (June 2011) is available. Quarter 1 (August 2013) groundwater analytical results were considered baseline for this well, with comparison occurring during the following quarters.

- **MW-BX-01:** The concentration of benzene increased from 0.000049 U mg/L (June 2011) to 0.185 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.

- **MW-BX-02:** The concentration of 1,2-DCA increased from 0.0327mg/L (June 2011) to 0.0376 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.

6.1.2 Semi-Volatile Organic Compounds

Table 6-1 presents the current LTM results for SVOCs from groundwater samples collected from the SS-17 monitoring well network. Groundwater analytical results which exceed action levels during Quarters 5-8 are identified below. Comparisons of the quarterly data to the baseline (June 2011) results are summarized in Table 5-1 (A-D) included in Appendix A.

- **SS17-MW-05:** Naphthalene increased from 0.202 mg/L (June 2011) in SS17-MW05 to 0.235 mg/L, 0.284 mg/L, and 0.274 mg/L during Quarters 5-7

respectively, and decreased during Quarter 8 (0.0774 mg/L). The naphthalene concentration remains above the NMWQCC standard.

- **SS17-MW08:** Naphthalene increased from 0.202 mg/L (June 2011) in SS17-MW05 to 0.275 A mg/L and 0.216 J mg/L during Quarters 5 and 8, and decreased during Quarters 6-7 (0.165 mg/L and 0.004 J mg/L). The naphthalene concentration was above the NMWQCC standard (0.03 mg/L) during Quarters 5-7.
- **SS17-MW21:** Naphthalene remained above NMWQCC standards at SS17-MW21, ranging from base levels of 0.277 mg/L (August 2013) to 0.0311 mg/L, 0.297 mg/L, 0.298 mg/L, and 0.393 mg/L, for Quarters 5-8 respectively. Phenol concentrations were also recorded above the NMWQCC standards of 0.030 mg/L and a baseline level of 0.0509 mg/L (August 2013) to 1.34 B mg/L, 1.42 b mg/L, 0.748 mg/L, and 0.807 mg/L, for Quarters 5-8 respectively. Phenol concentrations were recorded above the NMWQCC standards of 0.005 mg/L.
- **MW-BX-01:** The concentration of benzene increased from 0.000049 U mg/L (June 2011) to 0.185 mg/L during Quarter 8, which exceeds the USEPA MCL and NMWQCC standards.

6.1.3 Metals

Table 6-1 shows current results for the most frequently detected dissolved (filtered) manganese and total iron 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 (Appendix A, Figure 6-1 [Total Iron], Figure 6-2 [Dissolved Manganese]) and as identified below:

- **SS17-MW03:** The dissolved manganese concentration decreased from 1.140 mg/L (June 2011) to 0.476 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW-05:** The dissolved manganese concentration decreased from 0.430mg/L (June 2011) to 0.231 mg/L, 0.253 mg/L, 0.289 mg/L, and 0.229 mg/L for Quarters 5-8 respectively, with all four quarters above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW06:** The dissolved manganese concentration decreased from 2.56 mg/L (June 2011) to 1.84 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW07:** Total iron decreased from 0.22 mg/L (June 2011) during Quarters 5 (0.132 J mg/L) and 8 (0.116 J mg/L), and increased during Quarters 6 (0.261 J mg/L) and 7 (0.339 mg/L), with Quarter 7 above the USEPA MCL, NMWQCC standard, and NMED Approved Basewide Background Levels.

  The dissolved manganese concentration decreased from 0.84 mg/L (June 2011) to 0.368 mg/L, 0.498 mg/L, 0.367 mg/L, and 0.584 mg/L, which remain above the

USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.

- **SS17-MW08:** The dissolved manganese concentration decreased from 0.37 mg/L (June 2011) to 0.078 mg/L, 0.232 mg/L, 0.0587 mg/L, and 0.0537 mg/L during Quarters 5-8 respectively. Quarters 5, 7, and 8 are above the USEPA MCL and NMED Approved Basewide Background Levels, while Quarter 6 is above the NMWQCC standard, USEPA MCL and NMED Approved Basewide Background Levels.
- **SS17-MW09:** The dissolved manganese concentration decreased from 0.26 mg/L (June 2011) to 0.203 during Quarter 8, which remains above the NMWQCC standard.
- **SS17-MW10:** The concentration of total iron increased from 0.51 mg/L to 2.14 mg/L during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels. The dissolved manganese concentration decreased from 2.34 mg/L (June 2011) to 2.10 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW11:** The concentration of total iron increased from 1.16 mg/L to 3.31 mg/L during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels. The dissolved manganese concentration decreased from 3.26 mg/L (June 2011) to 2.68 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW13:** The dissolved manganese concentration decreased from 0.630 mg/L (June 2011) to 0.538 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW14:** The concentration of total iron increased from 0.26 mg/L to 1.12 mg/L during Quarter 8, and is above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW17:** The dissolved manganese concentration decreased from 1.34 mg/L (June 2011) to 1.12 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW18:** The dissolved manganese concentration increased from 2.78 mg/L (June 2011) to 4.95 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW19:** The dissolved manganese concentration increased from 1.09 mg/L (June 2011) to 1.24 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.

- **SS17-MW20:** The dissolved manganese concentration increased from 0.46 mg/L (June 2011) to 0.999 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW-21:** The concentration of total iron increased from 0.882 mg/L (August 2013) to 0.375 mg/L, 0.107 J mg/L, 0.0688 J mg/L, and 0.0621 during Quarters 5-8. Total iron in Quarter 5 is above the USEPA MCL and NMED Approved Basewide Background Levels.
- **SS17-MW22:** The concentration of total iron increased from 1.74 mg/L (August 2013) to 6.06 mg/L, 6.74 mg/L, 6.03 mg/L, and 5.19 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 5.07 mg/L and 4.97 mg/L during Quarters 6 and 8, and decreased to 4.68 mg/L and 4.79 mg/L during Quarters 5 and 7. All four quarters are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **SS17-MW23:** The concentration of total iron decreased from 15.60 mg/L (August 2013) to 0.108 J mg/L, 12.50 mg/L, 10.90 mg/L, and 5.68 mg/L during Quarters 5-8. Quarter 5 is below all groundwater screening levels, while Quarters 6-8 are above the NMWQCC standard, USEPA MCL, and NMED Approved Basewide Background Levels.

  The dissolved manganese concentration decreased from 2.88 mg/L (August 2013) to 2.04 mg/L, 2.34 mg/L, and 2.08 mg/L during Quarters 5, 7, and 8 respectively and increased to 3.50 mg/L during Quarter 6. All four quarters are above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **MW-BX-01:** The dissolved manganese concentration increased from 0.93 mg/L (June 2011) to 0.988 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.
- **MW-BX-02:** The dissolved manganese concentration increased from 5.37 mg/L (June 2011) to 7.60 during Quarter 8, and remains above the USEPA MCL, NMWQCC standards, and NMED Approved Basewide Background Levels.

6.1.4 Total Petroleum Hydrocarbons

The NMWQCC TPH screening guideline of 32 mg/L is the action level that total TPH concentrations detected in groundwater are gauged upon. Groundwater analytical results which exceed action levels during Quarters 5-8 are identified below. Comparisons of the quarterly data to the baseline (June 2011) results are summarized in Table 5-1 (A-D) included in Appendix H.

- **SS17-MW08:** The concentration of total TPH decreased from 53.64 mg/L (June 2011) to 25.71 mg/L, 27.21 mg/L, 22.61 mg/L, and 21.78 mg/L during Quarters 5 through 8 respectively.
- **SS17-MW21:** Due to the installation date of SS17-MW21, Quarter 1 data (299.32 mg/L) is utilized as the background level. Total TPH concentrations for SS17-MW21 were recorded as, 176.19 mg/L, 264.23 mg/L, 247.47 mg/L, and 224.53 mg/L during Quarters 5-8 respectively. Total TPH concentrations did exceed the NMWQCC standards for Quarters 5-8.

Comparisons of the quarterly TPH data to the baseline (June 2011) results are summarized in an analytical graph, Appendix A, Figure 6-3.

6.1.5 Nitrate

The USEPA Secondary Drinking Water Standard MCL of 10 mg/L is the action level that nitrate concentrations detected in groundwater are gauged upon. Comparisons of the quarterly data to the baseline (June 2011) results are summarized in analytical graphs (Appendix A, Figure 6-4 [Nitrates]) and as identified below. Quarterly data results are summarized in Table 5-1 (A-D) included in Appendix H.

- **SS17-MW07:** The Nitrate concentration increased from 0.791 J mg/L (June 2011) to 1.200 mg/L, 0.780 J mg/L, 2.800 U mg/L, and 1.200 mg/L during Quarters 5-8 respectively. Nitrate concentrations did not exceed the USEPA MCL and/or NMWQCC standards.
- **SS17-MW09:** The Nitrate concentration increased from 1.76 B mg/L (June 2011) to 14.000 J mg/L during Quarter 8. The Nitrate concentration did exceed the USEPA MCL and/or NMWQCC standards.
- **SS17-MW10:** The Nitrate concentration increased from 0.9 J mg/L (June 2011) to 10.000 mg/L during Quarter 8. The Nitrate concentration did exceed the USEPA MCL and/or NMWQCC standards.
- **SS17-MW16:** The Nitrate concentration increased from 1.45 mg/L (June 2011) to 18.400 mg/L during Quarter 8. The Nitrate concentration did exceed the USEPA MCL and/or NMWQCC standards.
- **SS17-MW20:** The Nitrate concentration increased from 0.8 B mg/L (June 2011) to 11.200 U mg/L during Quarter 8. The Nitrate concentration did exceed the USEPA MCL and/or NMWQCC standards.
- **SS17-MW23:** The Nitrate concentration increased from 5.00 U mg/L (August 2013) to 13.00 mg/L, 5.00 U mg/L, 5.00 U mg/L, and 10.00 mg/L during Quarters 5-8 respectively. Nitrate exceeded the USEPA MCL and/or NMWQCC standards for Quarters 5 and 8.

6.1.6 Sulfate

The USEPA Primary Drinking Water Standard MCL for Sulfates is 250 mg/L, however the NMED Approved Basewide Background Level of 17,419 mg/L is the action level that sulfate concentrations detected in groundwater are gauged upon. Based upon the NMED background levels, no hits above the background levels for Sulfate were identified in Quarters 5 through 8. Comparisons of the quarterly Sulfate data to the baseline (June 2011) results are summarized in analytical graphs in Appendix A, Figure 6-5 (Sulfates).

6.1.7 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 SS-17 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 A (Figure 6-6) and as identified below:

- **SS17-MW01:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,040 mg/L. The current TDS concentration for Quarter 8 is 2,940 mg/L. The TDS concentration for SS17-MW01 has remained relatively constant since the background data was collected.
- **SS17-MW02:** TDS was identified during the June 2011 background data sampling event at a concentration of 4,950 mg/L. The current TDS concentration for Quarter 8 is 4,780 mg/L. The TDS concentration for SS17-MW02 has remained relatively constant since the background data was collected.
- **SS17-MW03:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,690 mg/L. The current TDS concentration for Quarter 8 is 3,490 mg/L. The TDS concentration for SS17-MW03 has remained relatively constant since the background data was collected.
- **W-4:** TDS was identified during the June 2011 background data sampling event at a concentration of 2,560 mg/L. The current TDS concentration for Quarter 8 is 2,450 mg/L. The TDS concentration for W-4 has remained relatively constant since the background data was collected.
- **SS17-MW05:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,540 mg/L. Current TDS concentrations for Quarters 5-8 are 3,240 mg/L, 3,070 mg/L, 3,350 mg/L, and 3,260 mg/L respectively. The TDS concentration for SS17-MW05 has remained relatively constant over the last four quarters of sampling.

- **SS17-MW06:** TDS was identified during the June 2011 background data sampling event at a concentration of 6,770 mg/L. The current TDS concentration for Quarter 8 is 5,640 mg/L. The TDS concentration for SS17-MW06 has decreased since the background data was collected.
- **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 Quarters 5-8 are 3,240 mg/L, 2,630 mg/L, 2,930 mg/L, and 2,730 mg/L respectively. The TDS concentration for SS17-MW07 has remained relatively constant over the last 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 Quarters 5-8 are 2,640 mg/L, 2,510 mg/L, 2,490 mg/L, and 2,410 mg/L respectively. The TDS concentration for SS17-MW08 has remained relatively constant over the last four quarters of sampling.
- **SS17-MW09:** TDS was identified during the June 2011 background data sampling event at a concentration of 7,340 mg/L. The current TDS concentration for Quarter 8 is 7,060 mg/L. The TDS concentration for SS17-MW09 has remained relatively constant since the background data was collected.
- **SS17-MW10:** TDS was identified during the June 2011 background data sampling event at a concentration of 8,570 mg/L. The current TDS concentration for Quarter 8 is 8,900 mg/L. The TDS concentration for SS17-MW10 has remained relatively constant since the background data was collected.
- **SS17-MW11:** TDS was identified during the June 2011 background data sampling event at a concentration of 7,080 mg/L. The current TDS concentration for Quarter 8 is 6,550 mg/L. The TDS concentration for SS17-MW11 has increased since the background data was collected.
- **SS17-MW13:** TDS was identified during the June 2011 background data sampling event at a concentration of 13,500 mg/L. The current TDS concentration for Quarter 8 is 11,000 mg/L. The TDS concentration for SS17-MW13 has decreased since the background data was collected.
- **SS17-MW14:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,690 mg/L. The current TDS concentration for Quarter 8 is 5,060 mg/L. The TDS concentration for SS17-MW14 has increased since the background data was collected.
- **SS17-MW16:** TDS was identified during the June 2011 background data sampling event at a concentration of 2,970 mg/L. The current TDS concentration for Quarter 8 is 3,890 mg/L. The TDS concentration for SS17-MW16 has increased since the background data was collected.
- **SS17-MW17:** TDS was identified during the June 2011 background data sampling event at a concentration of 5,300 mg/L. The current TDS concentration

for Quarter 8 is 3,990 mg/L. The TDS concentration for SS17-MW17 has decreased since the background data was collected.

- **SS17-MW18:** TDS was identified during the June 2011 background data sampling event at a concentration of 5,950 mg/L. The current TDS concentration for Quarter 8 is 6,060 mg/L. The TDS concentration for SS17-MW18 has remained relatively constant since the background data was collected.
- **SS17-MW19:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,450 mg/L. The current TDS concentration for Quarter 8 is 3,790 mg/L. The TDS concentration for SS17-MW19 has remained relatively constant since the background data was collected.
- **SS17-MW20:** TDS was identified during the June 2011 background data sampling event at a concentration of 8,680 mg/L. The current TDS concentration for Quarter 8 is 9,760 mg/L. The TDS concentration for SS17-MW20 has increased since the background data was collected.
- **SS17-MW21:** TDS was identified during the August 2013 background data sampling event at a concentration of 3,740 mg/L. Current TDS concentrations for Quarters 5-8 are 3,680 mg/L, 3,560 mg/L, 3,940 mg/L, and 4,400 mg/L respectively. The TDS concentration for SS17-MW21 has remained relatively constant over the last four quarters of sampling.
- **SS17-MW22:** TDS was identified during the August 2013 background data sampling event at a concentration of 7,520 mg/L. Current TDS concentrations for Quarters 5-8 are 7,640 mg/L, 7,020 mg/L, 7,650 mg/L, and 7,290 mg/L respectively. The TDS concentration for SS17-MW22 has remained relatively constant over the last four quarters of sampling.
- **SS17-MW23:** TDS was identified during the August 2013 background data sampling event at a concentration of 6,520 mg/L. Current TDS concentrations for Quarters 5-8 are 6,730 mg/L, 8,250 mg/L, 6,960 mg/L, and 6,850 mg/L respectively. The TDS concentration for SS17-MW23 has remained relatively constant over the last four quarters of sampling.
- **MW-BX-01:** TDS was identified during the June 2011 background data sampling event at a concentration of 3,370 mg/L. The current TDS concentration for Quarter 8 is 4,390 mg/L. The TDS concentration for MW-BX-01 has increased since the background data was collected.
- **MW-BX-02:** TDS was identified during the June 2011 background data sampling event at a concentration of 8,210 mg/L. The current TDS concentration for Quarter 8 is 11,400 mg/L. The TDS concentration for MW-BX-02 has increased since the background data was collected.

6.2 Soil

Table 5-2 presents the current results for the COCs which exceed action levels in the 2015 Annual Soil Samples (#2), collected from the SS-17 site (SS17-SB301 through SS17-SB306). On a location by location basis, comparisons of the data to the baseline (October-November 2012 and 2014 Annual Soil Samples [#1]) results are summarized below:

- **SS17-SB301:** SS17-SB301 (7 ft bgs) is compared to SS17-SB202 (November 2012) and the 2014 Annual Soil Samples #1 (8 ft bgs). All samples from the SS17-SB301 location were collected from the Saturated Zone. The concentration of TPH-GRO increased from 4,230 mg/kg (November 2012) to 4,650 mg/kg (July 2014); and decreased to 2,770 mg/kg in the May 2015 sampling event. May 2015 analytical results exceed the NMED Residential Levels. The concentration of TPH-DRO increased from 65.8 mg/kg (November 2012) and 290 mg/kg (July 2014) to 1,740 mg/kg in the May 2015 sampling event, which exceeds the NMED Residential Levels.

  Ethylbenzene concentrations decreased from 258 mg/kg (November 2012) to 163 mg/kg (July 2014) and 73 A mg/kg during the May 2015 event, which continues to exceed the NMED Residential Levels. The A qualifier denotes the sample was outside control limits due to dilution.

  Naphthalene concentration decreased from 45.1 mg/kg (November 2012) to 45 mg/kg (July 2014) and 15.7 mg/kg during the May 2015 event, below the NMED Residential Levels. The concentration of 1,2,4-trimethylbenzene rise from 95.2 mg/kg (November 2012) to 171 mg/kg (July 2014) and decreased to 75.8 mg/kg (May 2015). Current values for 1,2,4-trimethylbenzene continue to exceed 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 (8 ft bgs) is compared to SS17-SB202 (November 2012) and 2014 Annual Soil Samples #1 (8 ft bgs). All samples from the SS17-SB302 location were collected from the Saturated Zone. TPH-GRO increased from 9,920 mg/kg (November 2012) to 14,500 mg/kg (July 2014) and 19,600 mg/kg (May 2015), which exceeds the NMED Residential Levels. TPH-DRO

increased from 795 mg/kg (November 2012) to 951 mg/kg (July 2014) and 2,310 mg/kg (May 2015), exceeding the NMED Residential Levels.

Benzene concentration fluctuated from 185 mg/kg (November 2012) to 176 mg/kg (July 2014) and 303 mg/kg (May 2015). Concentrations continue to exceed the NMED Residential Levels.

Ethylbenzene concentration decreased from 451 mg/kg (November 2012) to 329 mg/kg (July 2014), rising to 482 A mg/kg (May 2015). Concentrations exceed the NMED Residential Levels.

Naphthalene concentration increased from 60.5 mg/kg (November 2012) to 67.4 mg/kg (July 2014) and 130.0 J mg/kg (May 2015). Concentrations continue 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), rising to 582 A mg/kg (May 2015), which exceeds the NMED Residential Levels.

- **SS17-SB303:** SS17-SB303 (9 ft bgs) is compared to SS17-SB211 from November 2012 and the 2014 Annual Soil Samples #1 (8 ft bgs). All samples from the SS17-SB303 location were collected from the Saturated Zone. TPH-GRO decreased from 4,900 mg/kg (November 2012) to 3.98 mg/kg (July 2014), rising to 226 mg/kg (May 2015). Concentrations do not exceed the NMED Residential Levels.

  Benzene concentrations decreased from 68.3 mg/kg (November 2012) to 0.001 J mg/kg (July 2014) and 0.053 U mg/kg (May 2015), which does not exceed the NMED Residential Levels.

  Ethylbenzene decreased from 106 mg/kg (November 2012) to 0.001 U mg/kg (July 2014) and 3.73 mg/kg (May 2015). Concentrations do not exceed the NMED Residential Levels.

  The concentration of 1,2,4-Trimethylbenzene decreased from 124 mg/kg (November 2012) to 0.001 U mg/kg (July 2014) and 9.76 mg/kg (May 2015), which does not exceed the NMED Residential Levels.

- **SS17-SB304:** SS17-SB304 (10 ft bgs) is compared to SS17-SB216 (November 2012) and the 2014 Annual Soil Samples #1 (10 ft bgs). All samples from the SS17-SB304 location were collected from the Saturated Zone. TPH-GRO decreased from 8,270 mg/kg (November 2012) to 474 mg/kg (July 2014) and 86.8 mg/kg (May 2015). Concentrations do not exceed the NMED Residential Levels.

  Ethylbenzene concentration decreased from 378 mg/kg (November 2012) to 22.90 mg/kg (July 2014) and 4.18 mg/kg during (May 2015), which does not exceed the NMED Residential Levels.

Naphthalene concentrations decreased from 107 mg/kg (November 2012) to 0.343 mg/kg (July 2014) and 0.368 mg/kg (May 2015), 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) and 1.85 mg/kg (May 2015). Concentrations do not exceed the NMED Residential Levels.

- **SS17-SB305:** SS17-SB305 (9 ft bgs) is compared to SS17-SW121 (October 2012) and the 2014 Annual Soil Samples #1 (8 ft bgs). All samples from the SS17-SB305 location were collected from the Saturated Zone. TPH-GRO increased from 5,970 mg/kg (October 2012) to 6,430 mg/kg (July 2014), decreasing to 3,930 mg/kg (May 2015). Concentrations continue to exceed the NMED Residential Levels.

  Ethylbenzene concentration decreased from 253 mg/kg (October 2012) to 110 mg/kg (July 2014) and 9.84 mg/kg (May 2015), which does not exceed the NMED Residential Levels.

  Naphthalene concentration increased from 47.5 mg/kg (October 2012) to 61.7 mg/kg (July 2014), decreasing to 17.2 C mg/kg (May 2015), which does not exceed the NMED Residential Levels. The C qualifier denotes the sample result is from Run #2.

  The concentration of 1,2,4-trimethylbenzene decreased from 385 mg/kg (October 2012) to 384 mg/kg (July 2014) and 89.5 C mg/kg (May 2015), which exceeds the NMED Residential Levels.

- **SS17-SB306:** SS17-SB306 (9 ft bgs) is compared to SS17-SW128 (October 2012) and 2014 Annual Soil Samples #1 (10 ft bgs). All samples from the SS17-SB306 location were collected from the Saturated Zone. TPH-GRO increased from 586 mg/kg (October 2012) to 1,330 mg/kg (July 2014), decreasing to 326 mg/kg (May 2015). The 2015 concentrations do not exceed the NMED Residential Levels.

  The concentration of 1,2,4-trimethylbenzene decreased from 49.80 mg/kg (October 2012) to 0.058 J mg/kg (July 2014) and 0.063 U mg/kg (May 2015). Concentration s do not exceed the NMED Residential Levels.

7 CONCLUSIONS AND RECOMMENDATIONS

7.1 Treatment System

Overall, the AISEB system operated in accordance with its target design. No major modifications to the AISEB treatment system were necessary during this operating period. The only modifications required were in association with the AISEB system creating surface bubbling during seasonal rainfall events. The AISEB pressure was monitored and adjusted, ranging between 5 and 7 lbs of pressure at the start of the seasonal rainfall events in order to achieve stabilization with the subsurface environment.

Historically, dissolved oxygen and oxidation reduction potential (ORP) have been very low at SS17-MW05, SS17-MW07, SS17-MW08, SS17-MW21, and SS17-MW22 with ORP well into the negative values. Although SS17-MW23 shows low dissolved oxygen values, ORP is a positive number, remaining normally below 50 millivolts (mV). The remedial action is an AISEB process, relying on these parameters to be enhanced and greater in value than seen. Seasonal adjustments of Zone A and Zone B pressure ratings were attempted to increase dissolved oxygen and ORP values to within target treatment range to allow biodegradation to continue in the outlying areas. Impacts of the AISEB system on SS-17 monitoring well network was minimal.

The SS-17 (AOC -Q) site is associated with the Performance Base Remediation (PBR) contract for HAFB, and will be transferred from NationView to FPM Remediation, Inc., and AECOM upon completion of the Annual Long Term Monitoring Report (2015) and the Supplemental Accelerated Corrective Measures Report and Risk Base Evaluation. After review of the final 2014 data and the draft 2015 data, the decision was made by the PBR contractor to remove the AISEB air system from the SS-17 site, in favor of an enhanced remediation program. Therefore, the air compressor, gauges and control trailer were removed from the SS-17 site, subsequent to the final sampling period. Air lines were cut below grade, capped, sealed and left in place and the trailer, compressor and control equipment was transferred to HAFB as Air Force property.

7.2 Groundwater

7.2.3Groundwater COCs

The SS-17 LTM Annual groundwater sampling program was developed to address the identified COCs and MNA Parameters. Analytical results obtained during Quarters 5 through 8 of sampling were evaluated and compared with the results of the baseline sampling event for groundwater (June 2011) and August 2013 for SS17-MW21 through SS17-MW23.

Benzene had moderate decreases in concentration in SS17-MW05 and SS17-MW07, during Quarters 5, 6, and 8 and significant increases for Quarter 7. Concentrations in SS17-MW08 remained consistent through Quarters 5 and 6, with a slight rise in concentration during Quarter 7, then a decrease during Quarter 8. Benzene

concentrations in SS17-MW21 fluctuate, but remain well above the MCL. Benzene was detected in SS17-MW03 and SS17-MW06 during the Quarter 8 sampling event; these wells are located southwest of SS17-MW21.

Benzene concentrations in SS17-MW22 and SS17-MW23 remained consistently below the MCLs in concentration value for Quarters 5 through 8. During the Quarter 8 sampling event, monitoring wells SS17-MW01, SS17-MW02, SS17-MW09 through SS17MW11, SS17-MW13, SS17-MW14, SS17-MW16 through SS17-MW20, MX-BX-01, and MW-BX-02 reported concentrations below the MCL.

Overall, there appears to be a slight increase in ethylbenzene and naphthalene concentrations, while toluene, m,p-xylene and o-xylene experience a slight decrease during the SS-17 Quarters 5 through 8 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 ethylbenzene, m,p-xylene and naphthalene throughout the Quarters 5 through 8 events.

Based upon the comparison of baseline data (June 2011) and the annual SS-17 sampling events, analytical results show an overall slight increase of groundwater concentrations in benzene and naphthalene. Highest concentrations for constituents appear at SS17-MW21. SS17-MW05 and SS17-MW08 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.

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 show 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 the Quarters 5 through 8 sampling events. The increases are minimal, however due to the distance of the SS-17 wells to the Zone B injection well, the results are as expected. Concentrations for total 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 no measurable influence to date, due to the concentration of contaminants. The air pressure for the AISEB system is adjusted seasonally to allow for a maximum air flow and impact on the contaminant plume. Comparisons of the quarterly MNA data to the baseline (June 2011) results are summarized in analytical graphs included in Appendix A, Figures 6-1 (Total Iron), 6-2

(Dissolved Manganese), 6-4 (Nitrates) and 6-5 (Sulfates). These figures show the extent the system is influencing groundwater via MNA parameters.

7.2.3 Groundwater TDS

Total dissolved solids exceed NMWQCC and USEPA MCL action levels throughout the SS-17 monitoring well network. However, TDS was reported in concentrations greater than 10,000 mg/L in only two of the monitoring wells (SS17-MW13 and MW-BX-02) during the Quarter 8 sampling event. 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 (May 2015) were evaluated and compared with the results of the baseline sampling event for soils (October-November 2012).

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

Benzene concentrations increased in SS17-SB301 and SS17-SB302. However, concentrations continue to exceed the NMED Residential Levels in SS17-SB302.

Ethylbenzene concentrations increased in SS17-SB302. Concentrations in SS17-SB301 and SS17-SB302, continue to exceed the NMED Residential Levels.

The naphthalene concentration increased at SS17-SB302 and continues to exceed the NMED Residential Levels. Naphthalene concentrations were below NMED Residential Levels at all other boring locations.

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

Based upon the comparison of baseline data (October-November 2012) and the annual SS-17 soil sampling event, analytical results show that the following borings retain elevated concentrations of the constituents identified:

- SS17-SB301 – TPH-GRO, ethylbenzene, naphthalene and 1,2,4-trimethylbenzene above NMED Residential Levels
- SS17-SB302 – benzene, ethylbenzene, and 1,2,4-trimethylbenzene in exceedance of the NMED Residential Levels.

- SS17-SB305 – TPH-GRO, naphthalene and 1,2,4-trimethylbenzene above NMED Residential Levels

Although concentrations for the aforementioned constituents may have been detected in the other soil three soil borings (SS17-SB303, SS17-SB304 and SS17-SB306) the values for these concentrations are below NMED Residential Levels.

Based upon soil sample collection depth, all soil samples were collected from the Saturated Zone. Due to the depths of sample collection, groundwater movement may influence the reduction or increase of contaminant levels due to movement of the residual contaminant mass through the soils.

7.4 Recommendations

Recommend continued monitoring and quarterly sampling of the existing monitoring well network. This sampling program would allow a comparison of groundwater data from an extended period of natural state versus influence from the AISEB system. This data comparison will allow the PBR contractors an opportunity to evaluate both sets of data and design an enhanced remediation program, specific to reaching difficult to access areas of PCS located beneath First Street.

Due to the impending transfer of the SS-17 site to the current PBR contract holders, all future site activities will be determined by the PBR contractor.

8 REFERENCES

American Society for Testing and Materials (ASTM), 1995. *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.*

ASTM, May 2006a. ASTM D 2487-92 *Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).*

ASTM, November 2006b. ASTM D 2488-90 *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).*

Bhate Environmental Associates, Inc, November 2003. *Final Basewide Quality Assurance Project Plan, Holloman Air Force Base, New Mexico*.

Bhate Environmental Associates, Inc, 2006. *2005 Final Long Term Monitoring Report, Holloman Air Force Base, New Mexico.*

CH2M Hill, 1983. *Installation Restoration Program Phase I Records Search, Holloman Air Force Base, New Mexico.*

Dames & Moore, 1984. *Installation Restoration Program, Phase II Site 17 Field Evaluation Base Exchange Service Station Report, Holloman AFB, New Mexico.*

Ebasco Services Inc., 1995. *Draft Final Work Plan Remediation at Site SS-17 BX Service Station, Holloman Air Force Base, New Mexico Volume I – Field Operations Plan.*

El Paso Testing Laboratories, 1981. *Gasoline Extent Investigation, Exchange Texaco Station, Holloman Air Force Base, New Mexico.*

Foster Wheeler Environmental Corporation (FWENC), January 2003. *Revised Final Letter Work Plan for Petroleum Contaminated Soil Excavation at SS-17, FT-31, and West POL Yard, Holloman Air Force Base, New Mexico*.

FWENC, 1995. *SVE Remediation System BX Service Station, Holloman Air Force Base, New Mexico.*

Geoprobe Systems®, November 2013. *Geoprobe® DT325 Dual Tube Sampling System Standard Operating Procedure Technical Bulletin No. MK3140.*

Hazardous Materials Technical Center (HMTC), June 1987. *Phase IV, Recovery Project NX Gas Station Leak Data, SS-17.*

NationView LLC., December 2009. *NationView Standard Operating Field Procedures Manual.*

NationView LLC., 2011a. *Groundwater Characterization Report Site SS-17, Holloman Air Force Base, New Mexico*.

NationView LLC., 2011b. *Supplemental Accelerated Corrective Measure Work Plan SS-17 BX Gas Station Ful Leak, Holloman Air Force Base, New Mexico.*

NationView LLC., 2013. *Final Supplemental Accelerated Corrective Measures Work Plan SS-17 BX Gas Station Fuel Leak, Holloman Air Force Base, New Mexico.*

NationView LLC., 2014. *Final SS-17 (AOC - Q) Long Term Monitoring Annual Report – 2015, Holloman Air Force Base, New Mexico.*

New Mexico Administrative Code (NMAC), 20.6.2.3103, *New Mexico Water Quality Control Commission Regulations, September 15, 2002.*

New Mexico Environment Department (NMED), February 24, 2004. *Holloman Air Force Base, Hazardous Waste Facility Permit No. NM6572124422.*

NMED, 2011a. *Notice of Approval letter entitled, Request to Perform Eight Quarters of Groundwater Monitoring, Site SS-17.*

NMED, 2011b. *Approved Background Levels for Unfiltered (Total) Constituents in Groundwater.*

NMED, February 2012a. *NMED Soil Screening Levels. Risk Assessment Guidance for Site Investigations and Remediation.*

NMED, June, 2012b. *Risk Assessment Guidance for Site Investigations and Remediation.*

NMED, September, 2012c. *Approved Basewide Background Levels, Holloman Air Force Base, New Mexico.*

Tetra Tech, Inc., March 2009. *Final SS-17 BX Gas Station Fuel Leak Site Accelerated Corrective Measures Work Plan, Holloman Air Force Base, Alamogordo, New Mexico.*

USACE, October 1997. *Chemical Quality Assurance for HTRW Projects Manual EM 200-1-6.*

USACE, November 2008. *Safety: Safety and Health Requirements Manual EM 385-1-1.*

U.S. Environmental Protection Agency (USEPA), November 1986. *Guidelines for Ground-Water Classification, EPA Ground-Water Protection Strategy.*

USEPA, May 2009. *National Primary Drinking Water Regulations. EPA 816-F-09-004.*

USEPA, May 2012. *USEPA Regions 3, 6, and 9 Regional Screening Levels.* http://www.epa.gov/Region6/6pd/rcra_c/pd-n/screen.htm.

Walk, Haydel & Associates [WHA], 1988. *Final Installation Restoration Program Remedial Investigation Site 17 BX Station Technical Report Holloman Air Force Base, New Mexico.*

WHA, 1990. *Final Installation Restoration Program, Remedial Investigation Report, Site 17 BX Service Station Addendum 1, Holloman Air Force Base, New Mexico.*

WHA, 1992. *Final Corrective Action Plan for Site SS-17, BX Service Station, Holloman Air Force Base, Alamogordo, New Mexico.*

APPENDIX A

Figures

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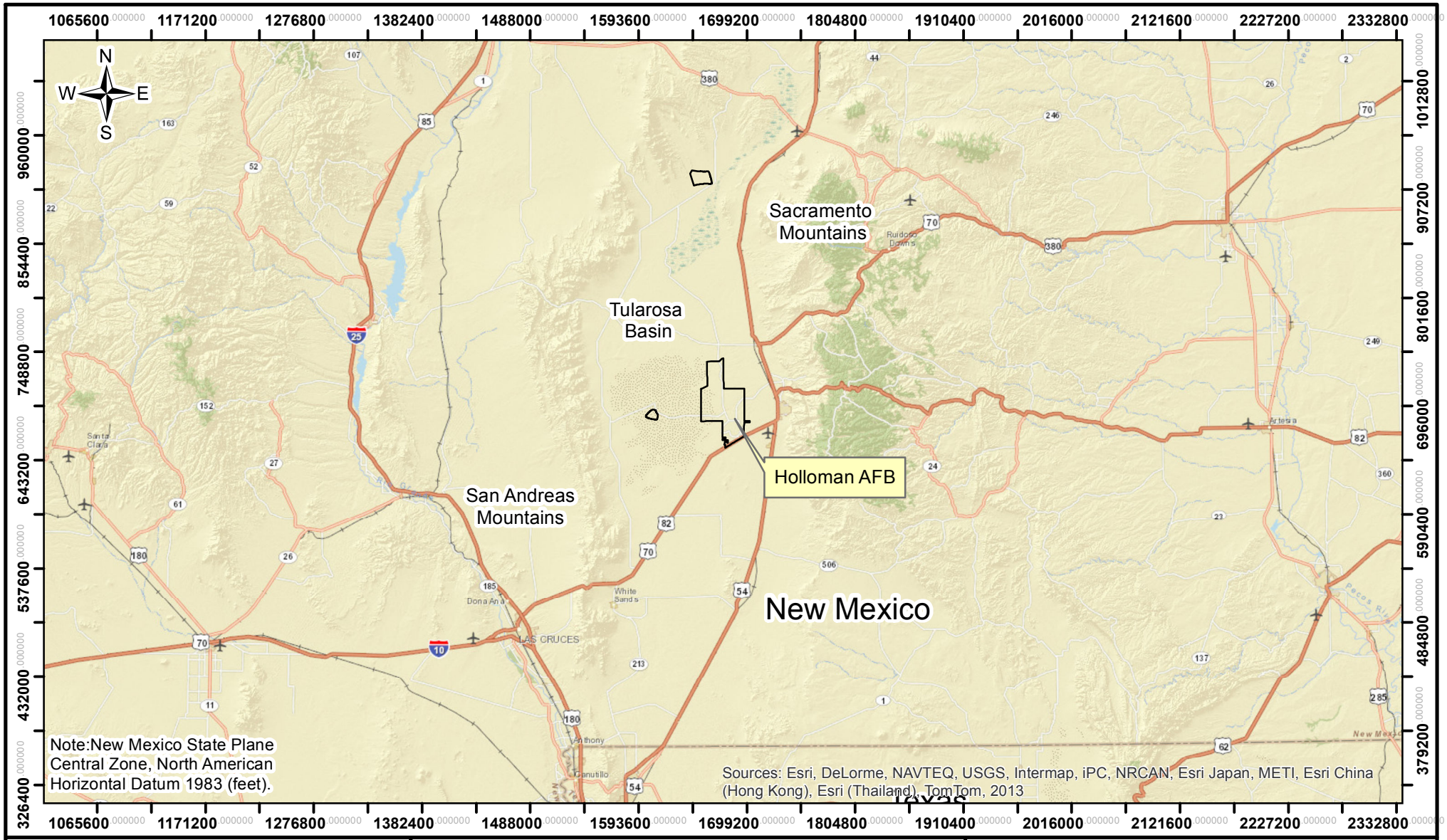

NATIONVIEW

Location Map
Holloman Air Force Base
New Mexico

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SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-1

NATIONVIEW

SS-17
Site Location Map

PROJECT NO:	SCALE	DATE:	DRAWN BY:
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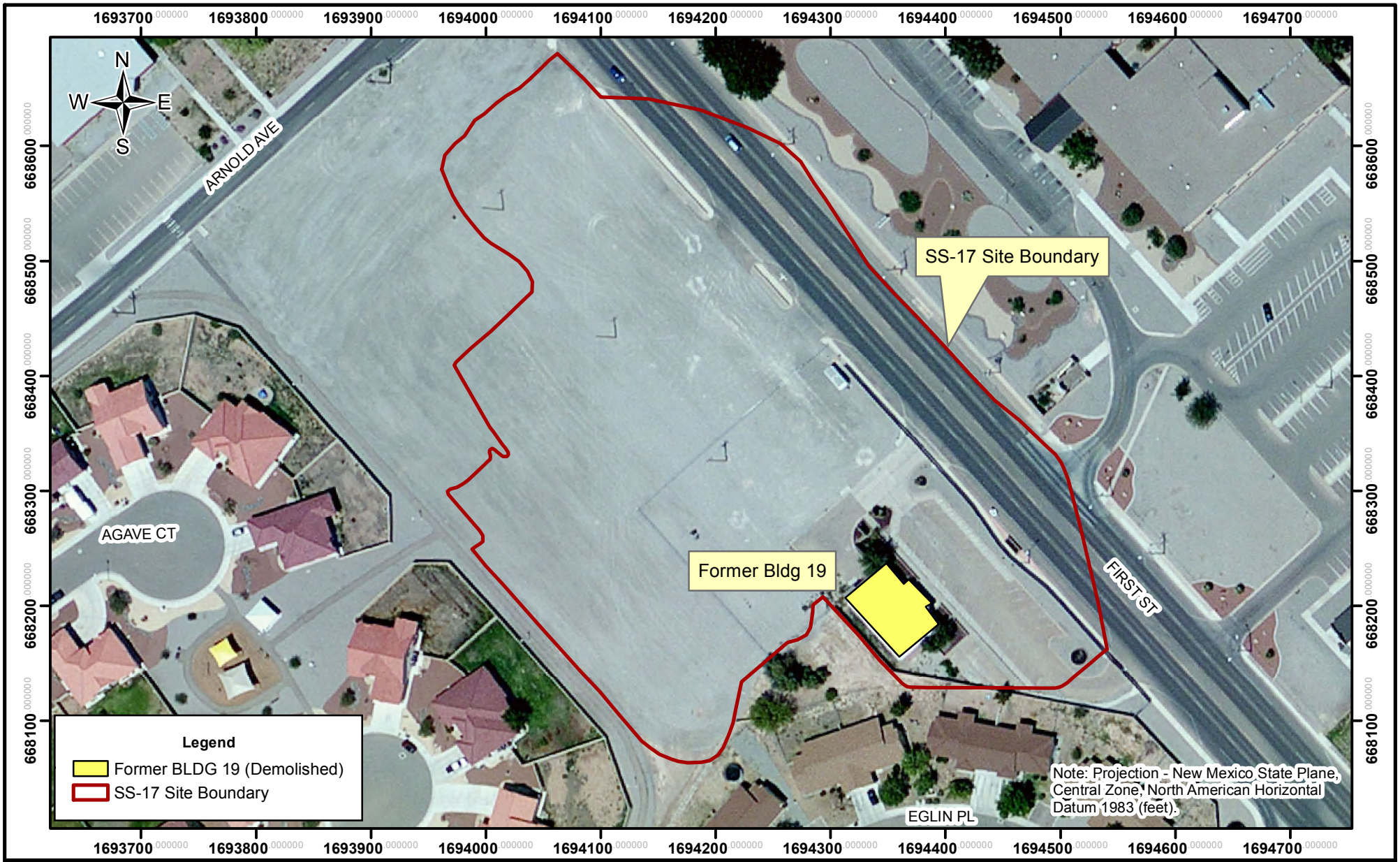
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-2



NATIONVIEW

SS-17
Site Plan Map

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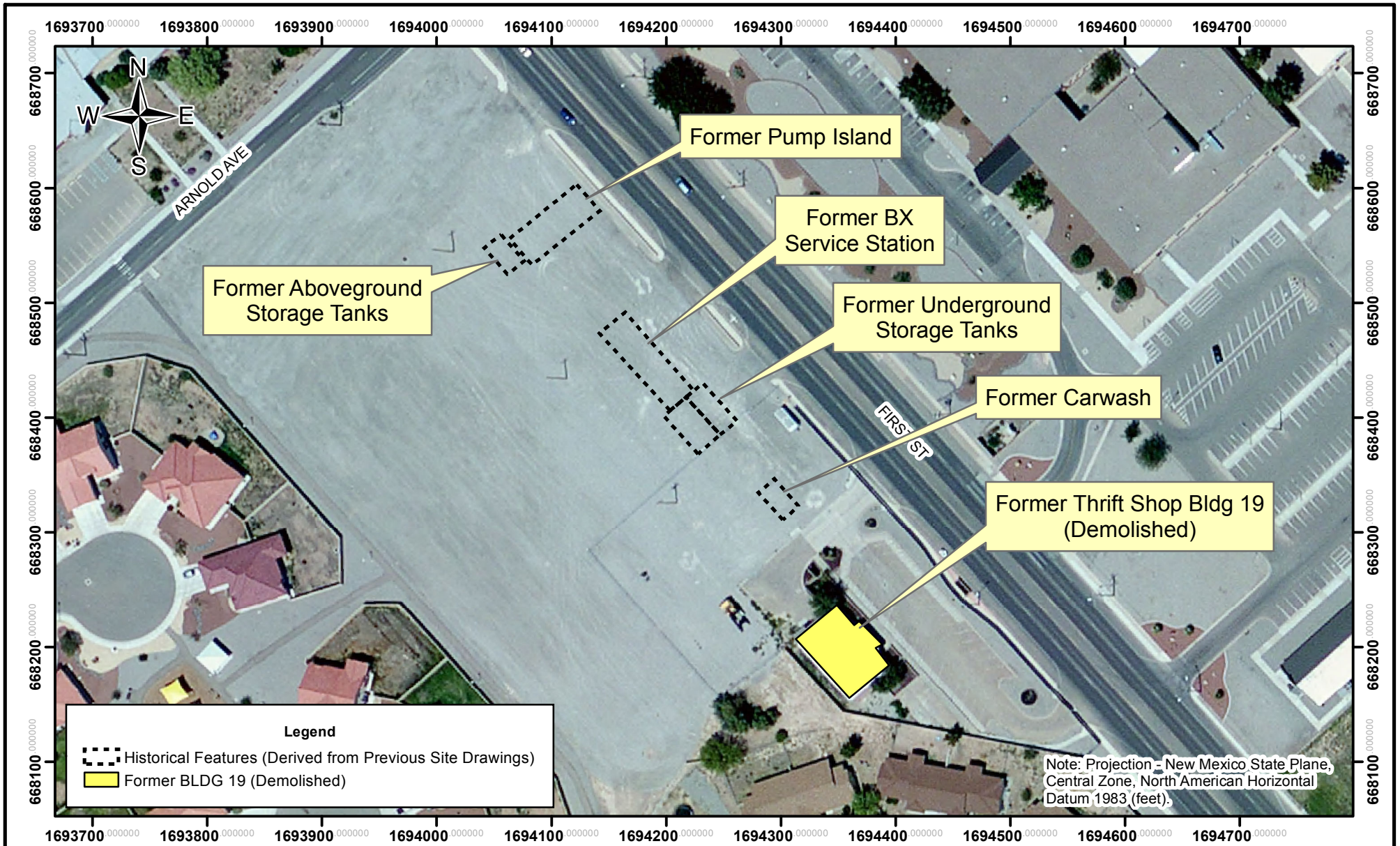
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-3



NATIONVIEW

SS-17
2011 Site Plan Map

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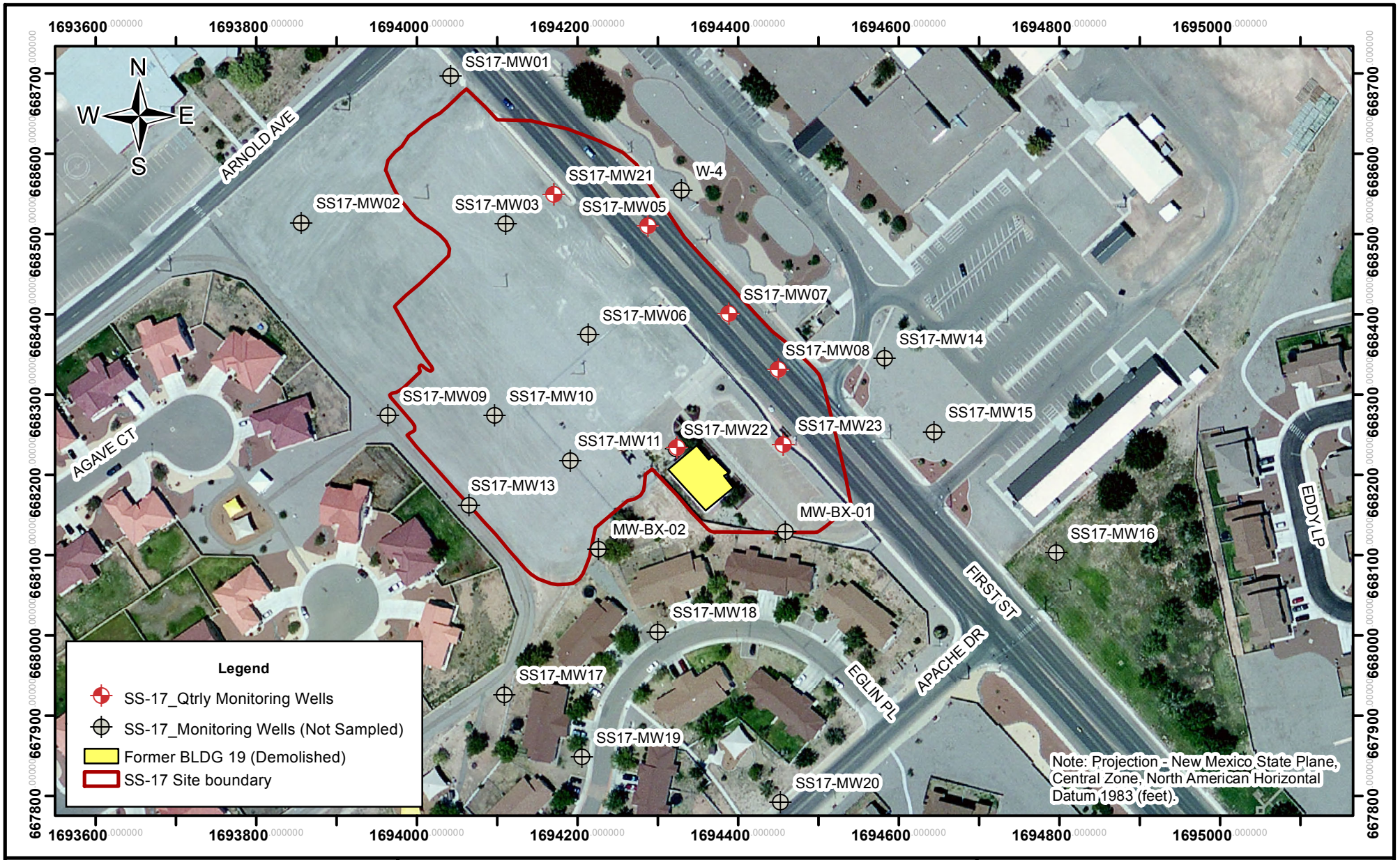
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-4



NATIONVIEW

SS-17
Quarterly Monitoring Well Location Map

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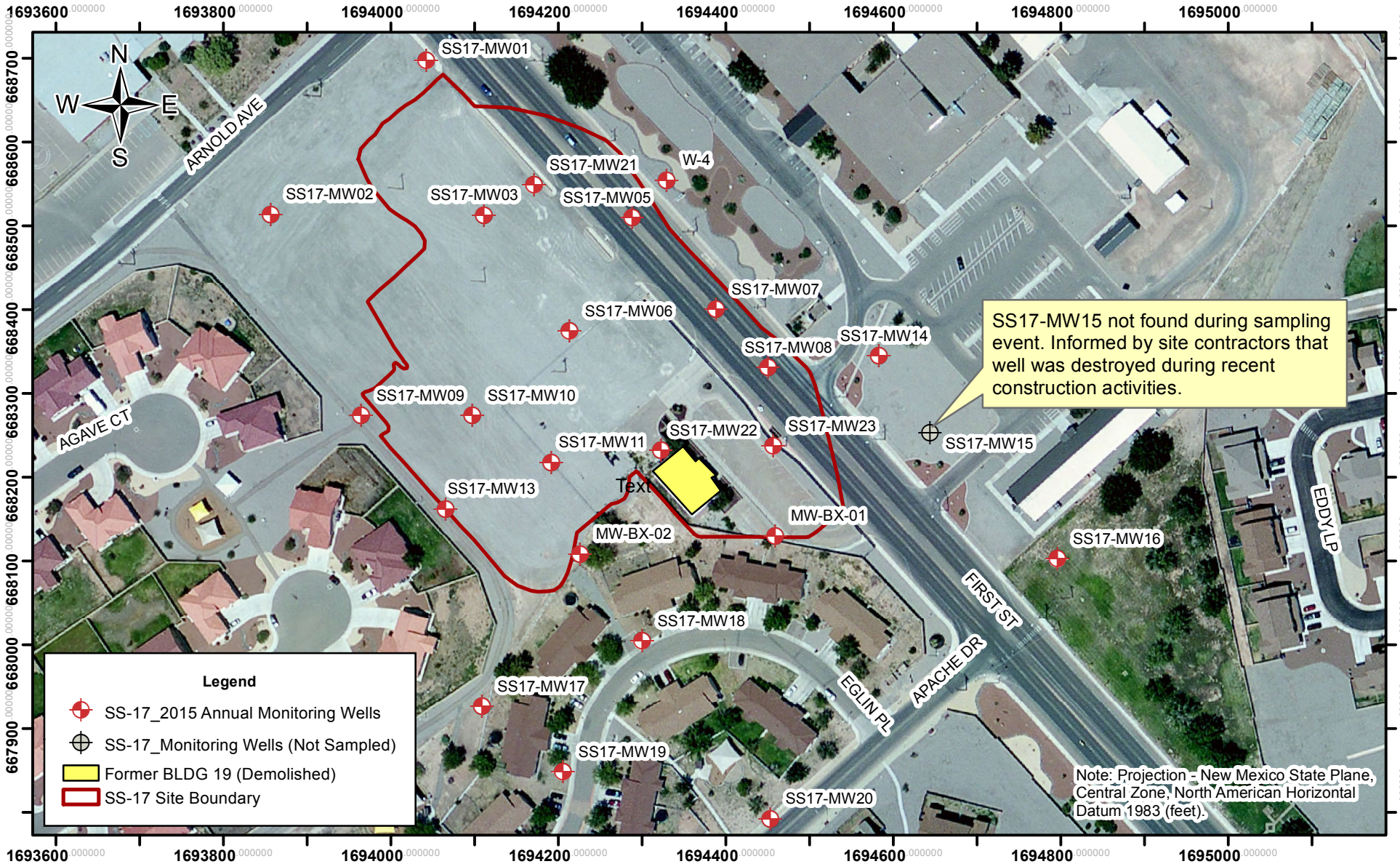
SS-17
Long Term Monitoring
Annual Report - 2014
Holloman Air Force Base, New Mexico

Figure 2-5A



NATIONVIEW

SS-17
Annual Monitoring Well Location Map

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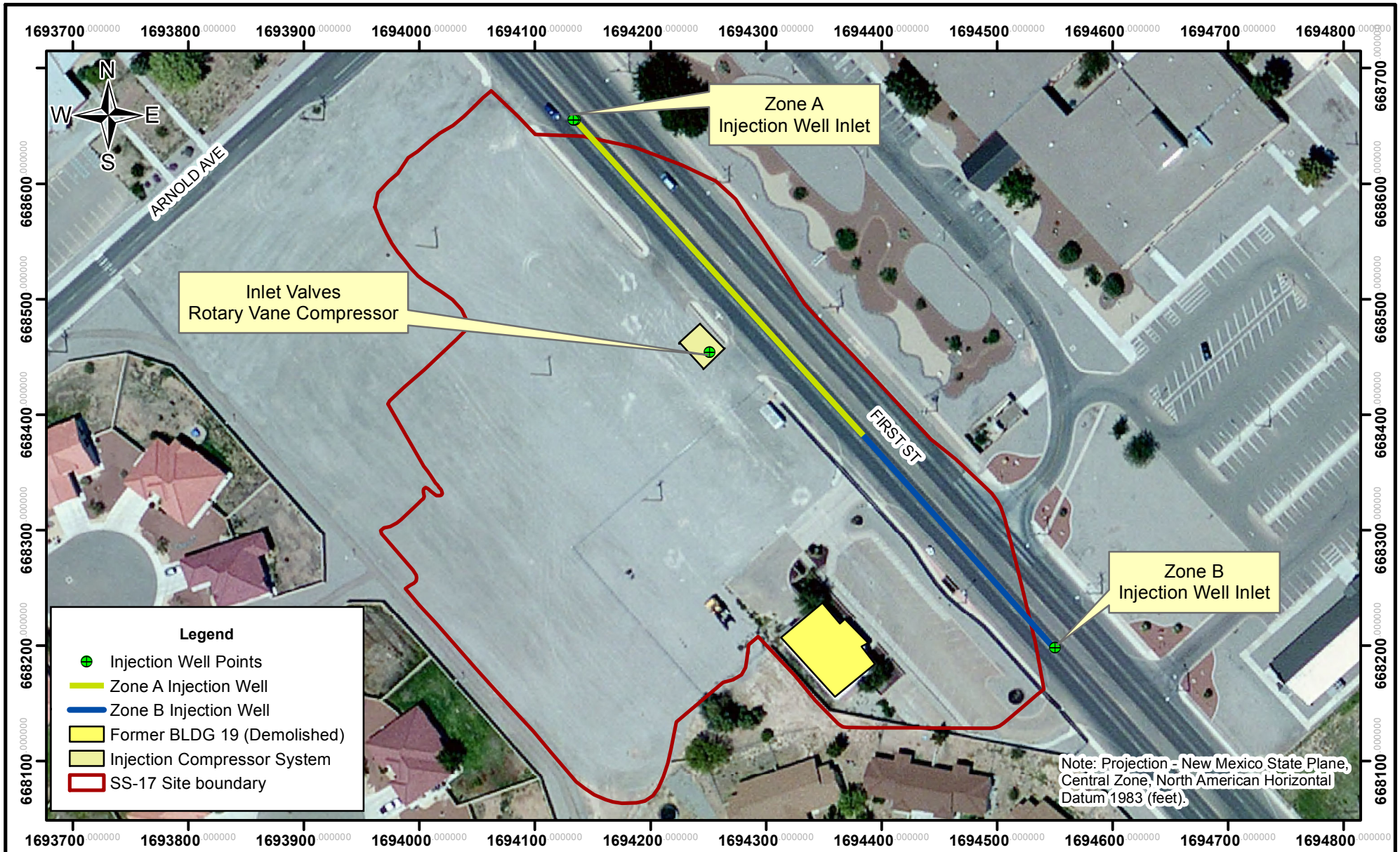
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-5B



NATIONVIEW

SS-17
Injection Well Inlet Map

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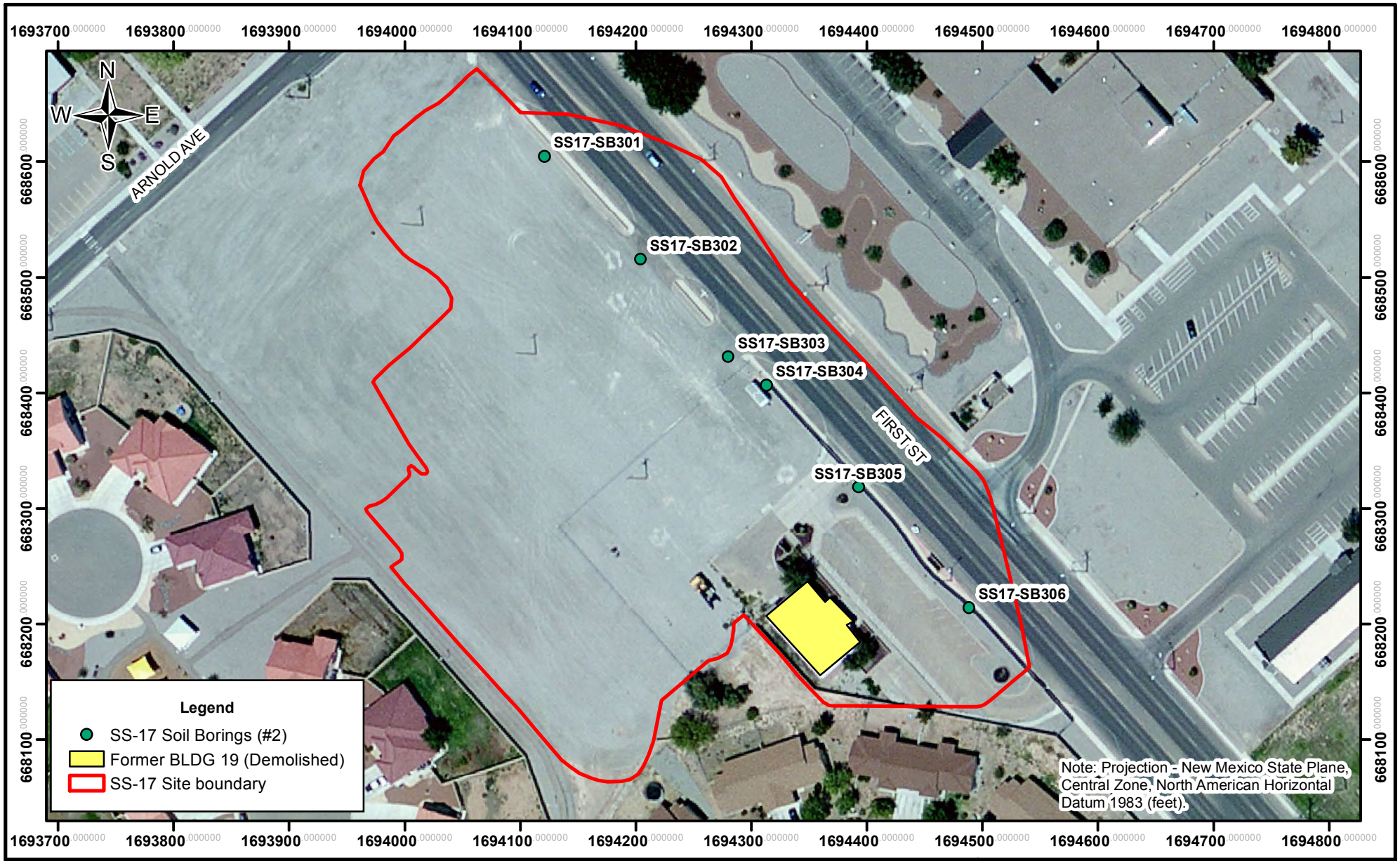
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 2-6



NATIONVIEW

SS-17
Annual Soil Boring Locations (2015)

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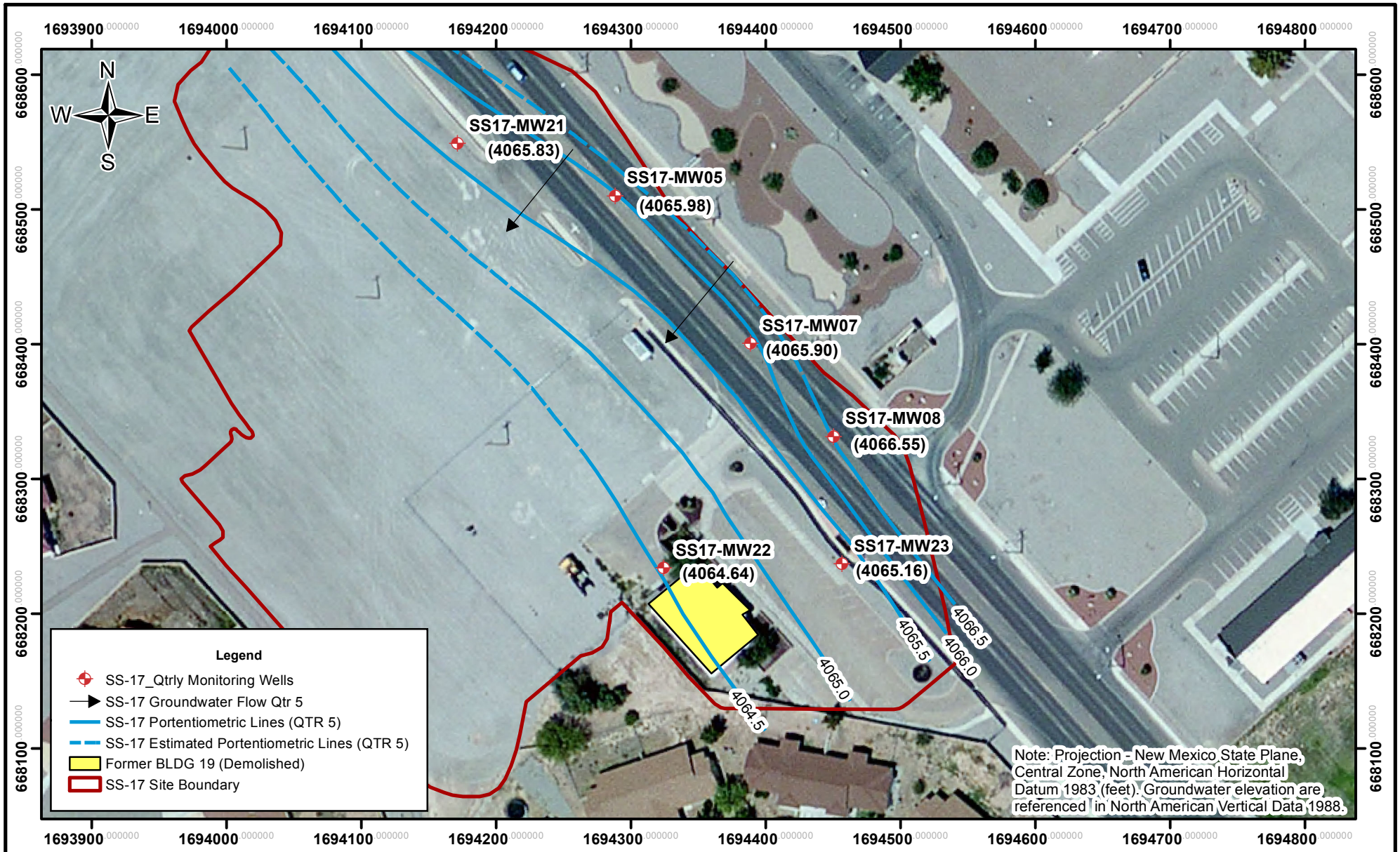
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 4-1



NATIONVIEW

SS-17
Groundwater Potentiometric Map (Qtr 5)

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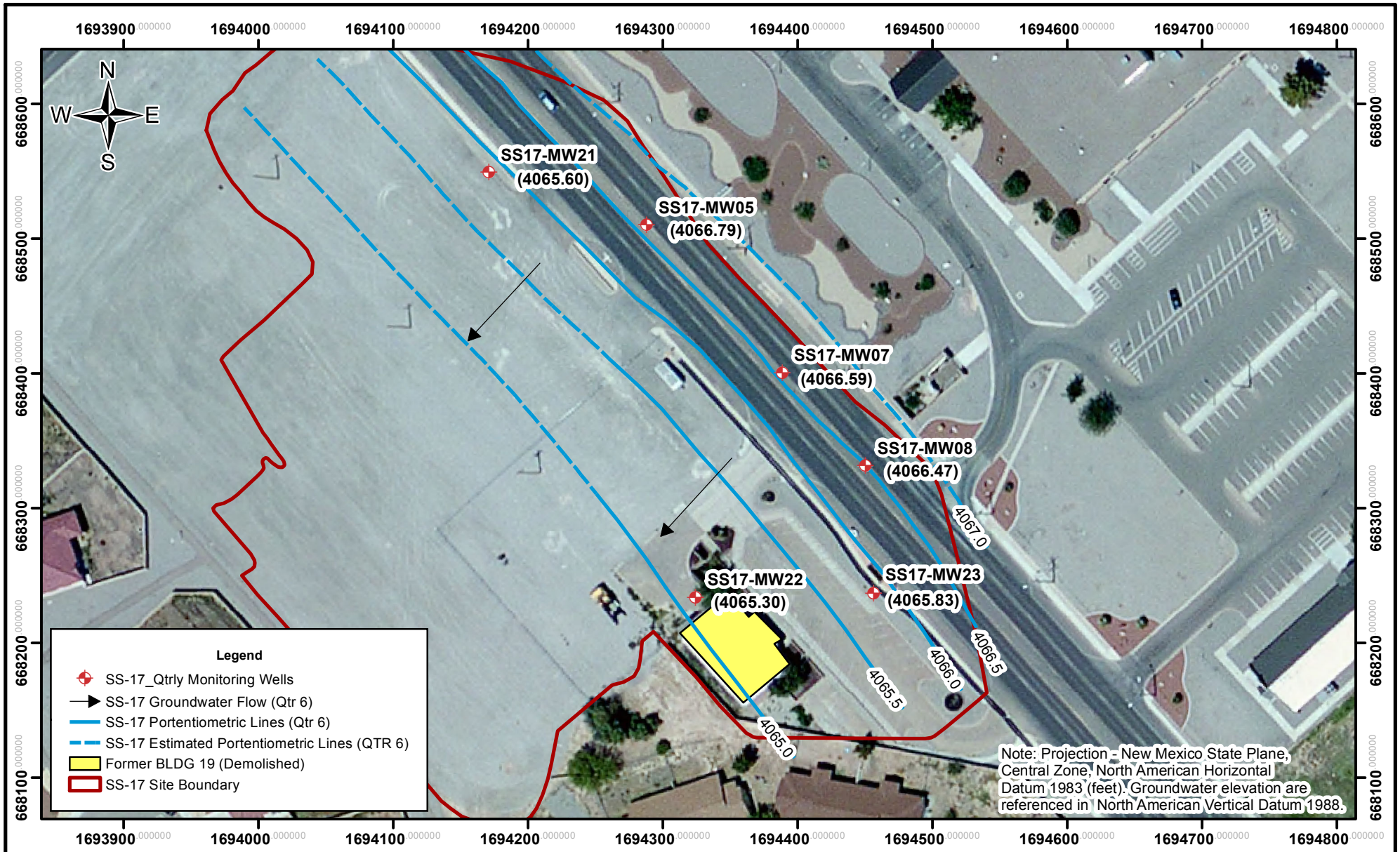
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 4-2A



NATIONVIEW

SS-17
Groundwater Potentiometric Map (Qtr 6)

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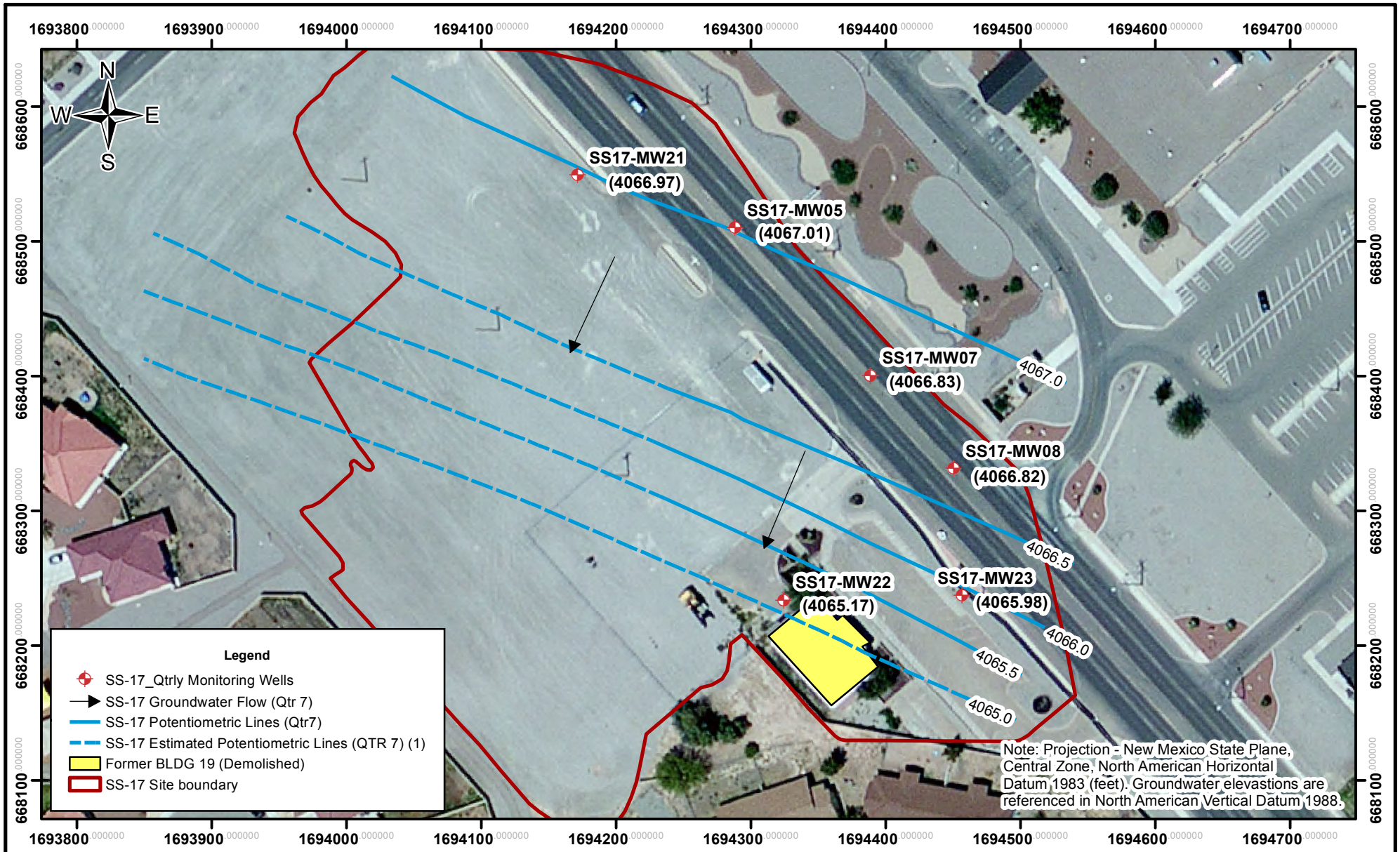
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 4-2B



NATIONVIEW

SS-17
Groundwater Potentiometric Map (Qtr 7)

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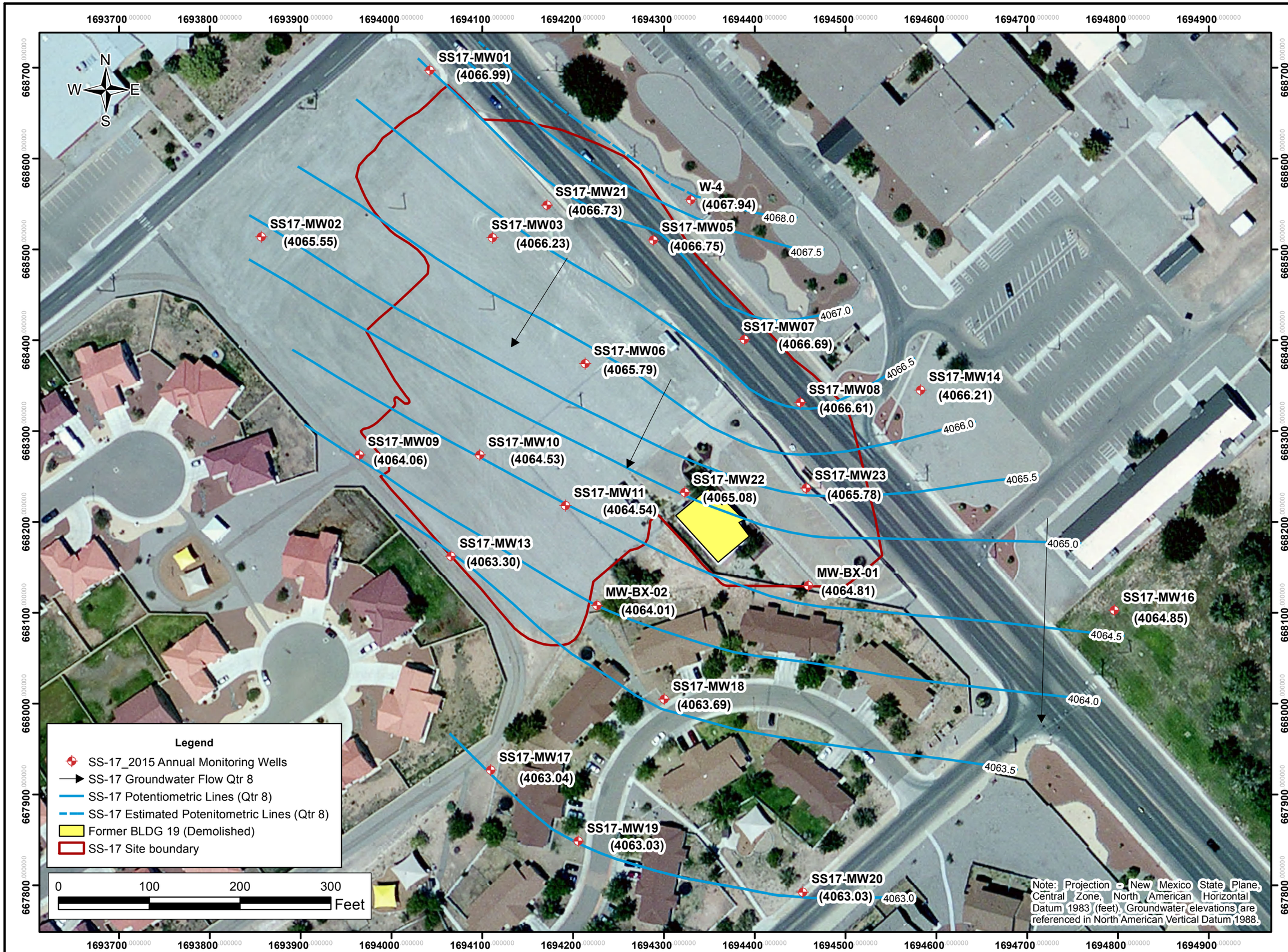
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 4-2C



SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 4-2D

SS-17
Groundwater Potentiometric Map (Qtr 8)

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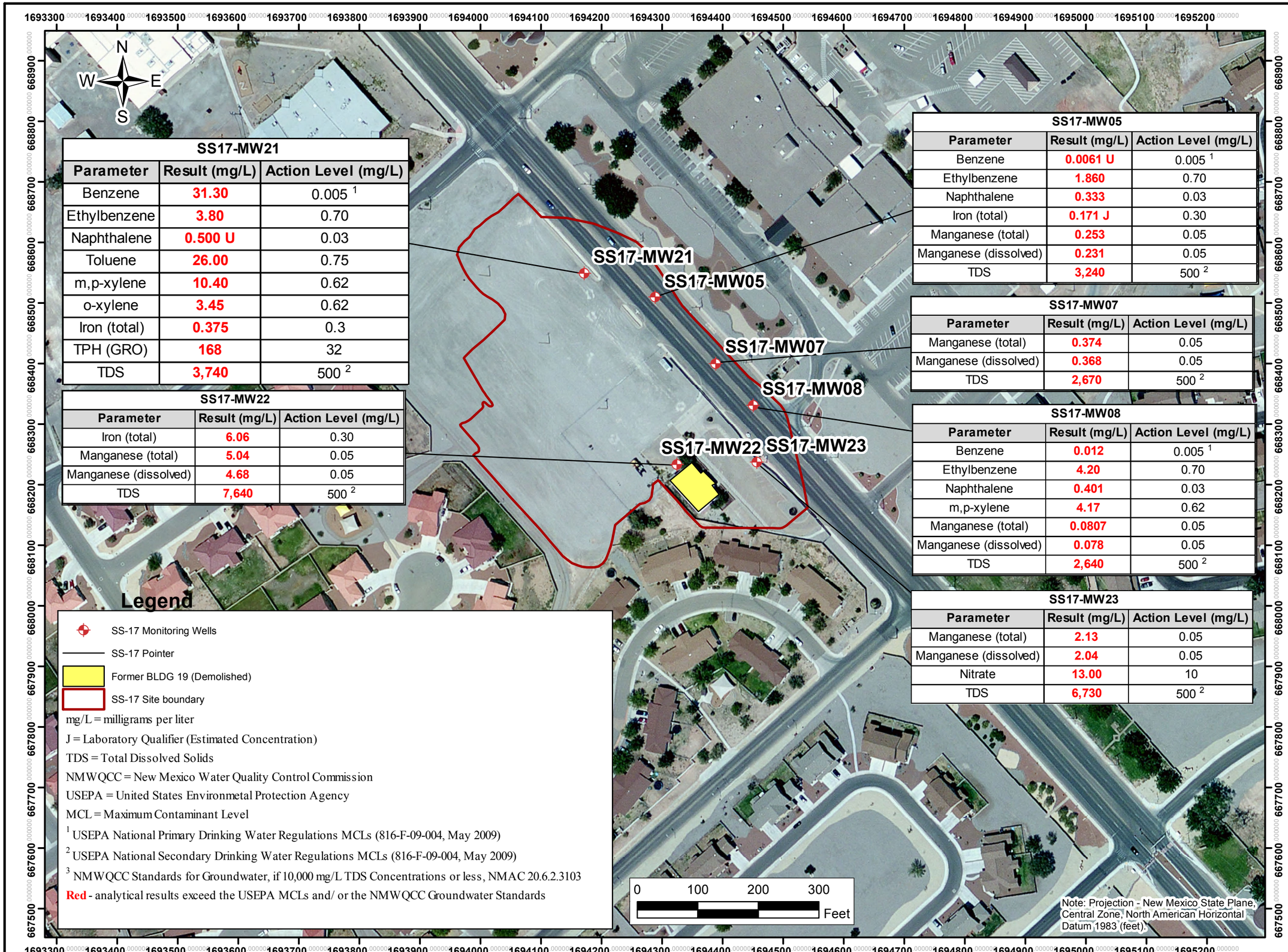
NATIONVIEW



SS17-MW21

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	31.30	0.005 [1]
Ethylbenzene	3.80	0.70
Naphthalene	0.500 U	0.03
Toluene	26.00	0.75
m,p-xylene	10.40	0.62
o-xylene	3.45	0.62
Iron (total)	0.375	0.3
TPH (GRO)	168	32
TDS	3,740	500 [2]

SS17-MW22

Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	6.06	0.30
Manganese (total)	5.04	0.05
Manganese (dissolved)	4.68	0.05
TDS	7,640	500 [2]

SS17-MW05

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.0061 U	0.005 [1]
Ethylbenzene	1.860	0.70
Naphthalene	0.333	0.03
Iron (total)	0.171 J	0.30
Manganese (total)	0.253	0.05
Manganese (dissolved)	0.231	0.05
TDS	3,240	500 [2]

SS17-MW07

Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.374	0.05
Manganese (dissolved)	0.368	0.05
TDS	2,670	500 [2]

SS17-MW08

Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.012	0.005 [1]
Ethylbenzene	4.20	0.70
Naphthalene	0.401	0.03
m,p-xylene	4.17	0.62
Manganese (total)	0.0807	0.05
Manganese (dissolved)	0.078	0.05
TDS	2,640	500 [2]

SS17-MW23

Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	2.13	0.05
Manganese (dissolved)	2.04	0.05
Nitrate	13.00	10
TDS	6,730	500 [2]

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-1A

SS-17
Groundwater Analytical Results
Above Action Levels (Qtr 5)

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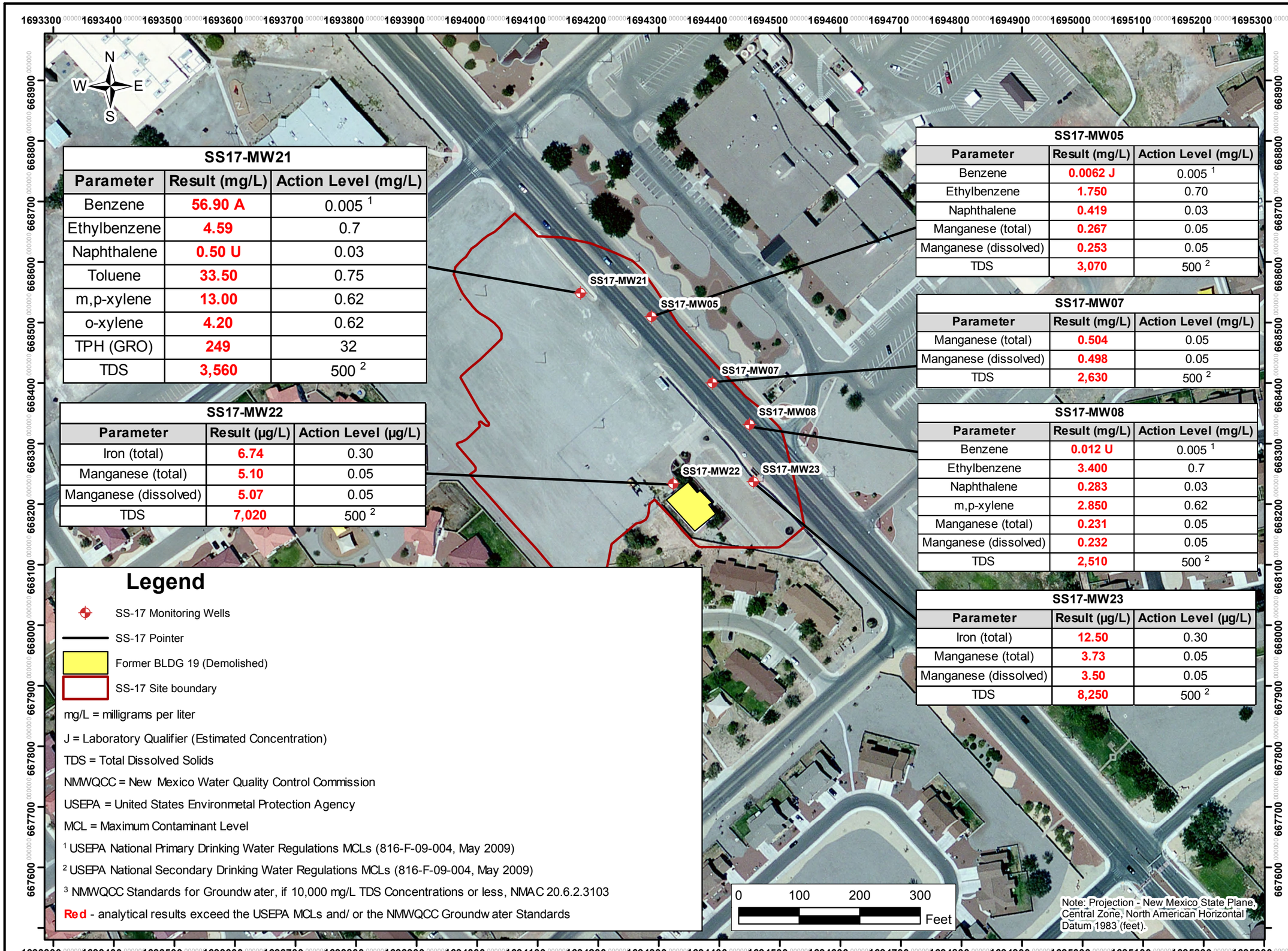
NATIONVIEW



SS17-MW21		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	56.90 A	0.005 [1]
Ethylbenzene	4.59	0.7
Naphthalene	0.50 U	0.03
Toluene	33.50	0.75
m,p-xylene	13.00	0.62
o-xylene	4.20	0.62
TPH (GRO)	249	32
TDS	3,560	500 [2]

SS17-MW05		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.0062 J	0.005 [1]
Ethylbenzene	1.750	0.70
Naphthalene	0.419	0.03
Manganese (total)	0.267	0.05
Manganese (dissolved)	0.253	0.05
TDS	3,070	500 [2]

SS17-MW07		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.504	0.05
Manganese (dissolved)	0.498	0.05
TDS	2,630	500 [2]

SS17-MW08		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.012 U	0.005 [1]
Ethylbenzene	3.400	0.7
Naphthalene	0.283	0.03
m,p-xylene	2.850	0.62
Manganese (total)	0.231	0.05
Manganese (dissolved)	0.232	0.05
TDS	2,510	500 [2]

SS17-MW22		
Parameter	Result (µg/L)	Action Level (µg/L)
Iron (total)	6.74	0.30
Manganese (total)	5.10	0.05
Manganese (dissolved)	5.07	0.05
TDS	7,020	500 [2]

SS17-MW23		
Parameter	Result (µg/L)	Action Level (µg/L)
Iron (total)	12.50	0.30
Manganese (total)	3.73	0.05
Manganese (dissolved)	3.50	0.05
TDS	8,250	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

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Figure 5-1B

SS-17
Groundwater Analytical Results
Above Action Levels (Qtr 6)

DRAWN BY: FRE

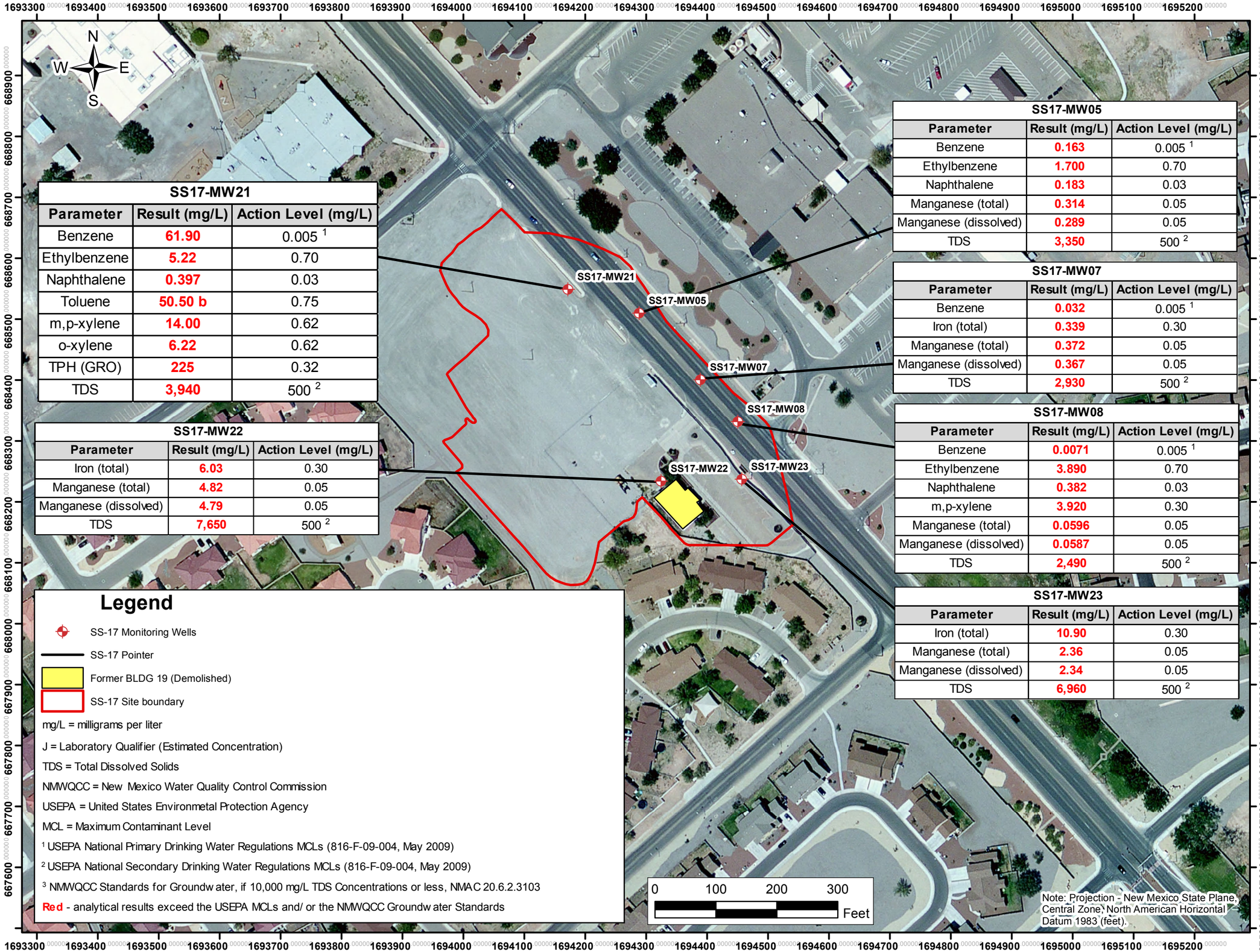
DRAWING NO.: Figure 5-1B

DATE: 6/26/15

SCALE: 1" = 100'

PROJECT NO: 11-0019

NATIONVIEW



SS17-MW21		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	61.90	0.005 [1]
Ethylbenzene	5.22	0.70
Naphthalene	0.397	0.03
Toluene	50.50 b	0.75
m,p-xylene	14.00	0.62
o-xylene	6.22	0.62
TPH (GRO)	225	0.32
TDS	3,940	500 [2]

SS17-MW22		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	6.03	0.30
Manganese (total)	4.82	0.05
Manganese (dissolved)	4.79	0.05
TDS	7,650	500 [2]

SS17-MW05		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.163	0.005 [1]
Ethylbenzene	1.700	0.70
Naphthalene	0.183	0.03
Manganese (total)	0.314	0.05
Manganese (dissolved)	0.289	0.05
TDS	3,350	500 [2]

SS17-MW07		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.032	0.005 [1]
Iron (total)	0.339	0.30
Manganese (total)	0.372	0.05
Manganese (dissolved)	0.367	0.05
TDS	2,930	500 [2]

SS17-MW08		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.0071	0.005 [1]
Ethylbenzene	3.890	0.70
Naphthalene	0.382	0.03
m,p-xylene	3.920	0.30
Manganese (total)	0.0596	0.05
Manganese (dissolved)	0.0587	0.05
TDS	2,490	500 [2]

SS17-MW23		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	10.90	0.30
Manganese (total)	2.36	0.05
Manganese (dissolved)	2.34	0.05
TDS	6,960	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
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Holloman Air Force Base, New Mexico

Figure 5-1C

SS-17
Groundwater Analytical Results
Above Action Levels (Qtr 7)

DRAWN BY: FRE

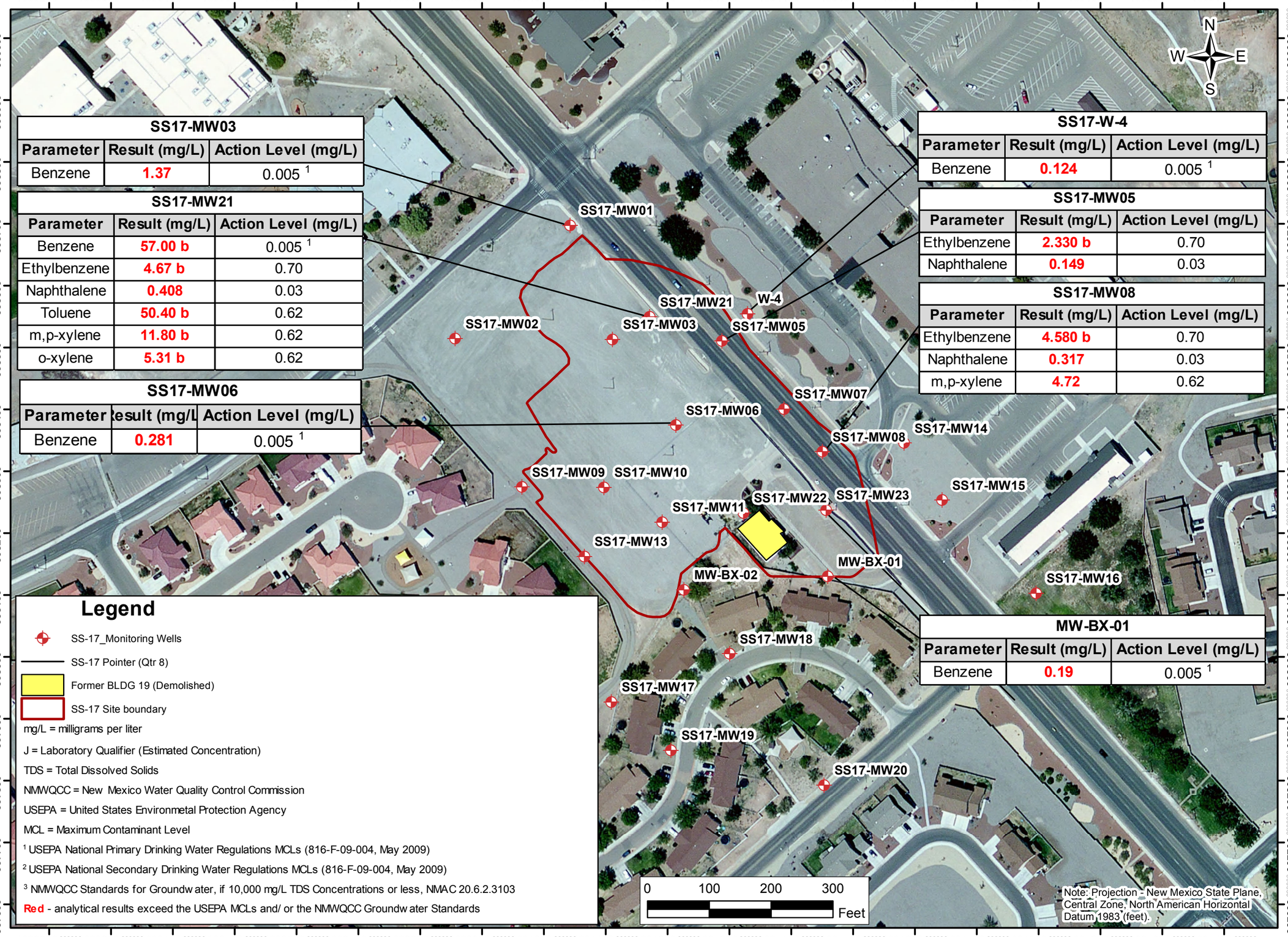
DRAWING NO.: Figure 5-1C

DATE: 6/26/15

SCALE: 1" = 100'

PROJECT NO: 11-0019

NATIONVIEW



SS17-MW03		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	1.37	0.005 [1]

SS17-MW21		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	57.00 b	0.005 [1]
Ethylbenzene	4.67 b	0.70
Naphthalene	0.408	0.03
Toluene	50.40 b	0.62
m,p-xylene	11.80 b	0.62
o-xylene	5.31 b	0.62

SS17-MW06		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.281	0.005 [1]

SS17-W-4		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.124	0.005 [1]

SS17-MW05		
Parameter	Result (mg/L)	Action Level (mg/L)
Ethylbenzene	2.330 b	0.70
Naphthalene	0.149	0.03

SS17-MW08		
Parameter	Result (mg/L)	Action Level (mg/L)
Ethylbenzene	4.580 b	0.70
Naphthalene	0.317	0.03
m,p-xylene	4.72	0.62

MW-BX-01		
Parameter	Result (mg/L)	Action Level (mg/L)
Benzene	0.19	0.005 [1]

Legend

- SS-17_Monitoring Wells
- SS-17 Pointer (Qtr 8)
- 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)

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[3] NMWQCC Standards for Groundw ater, 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 Groundw ater Standards

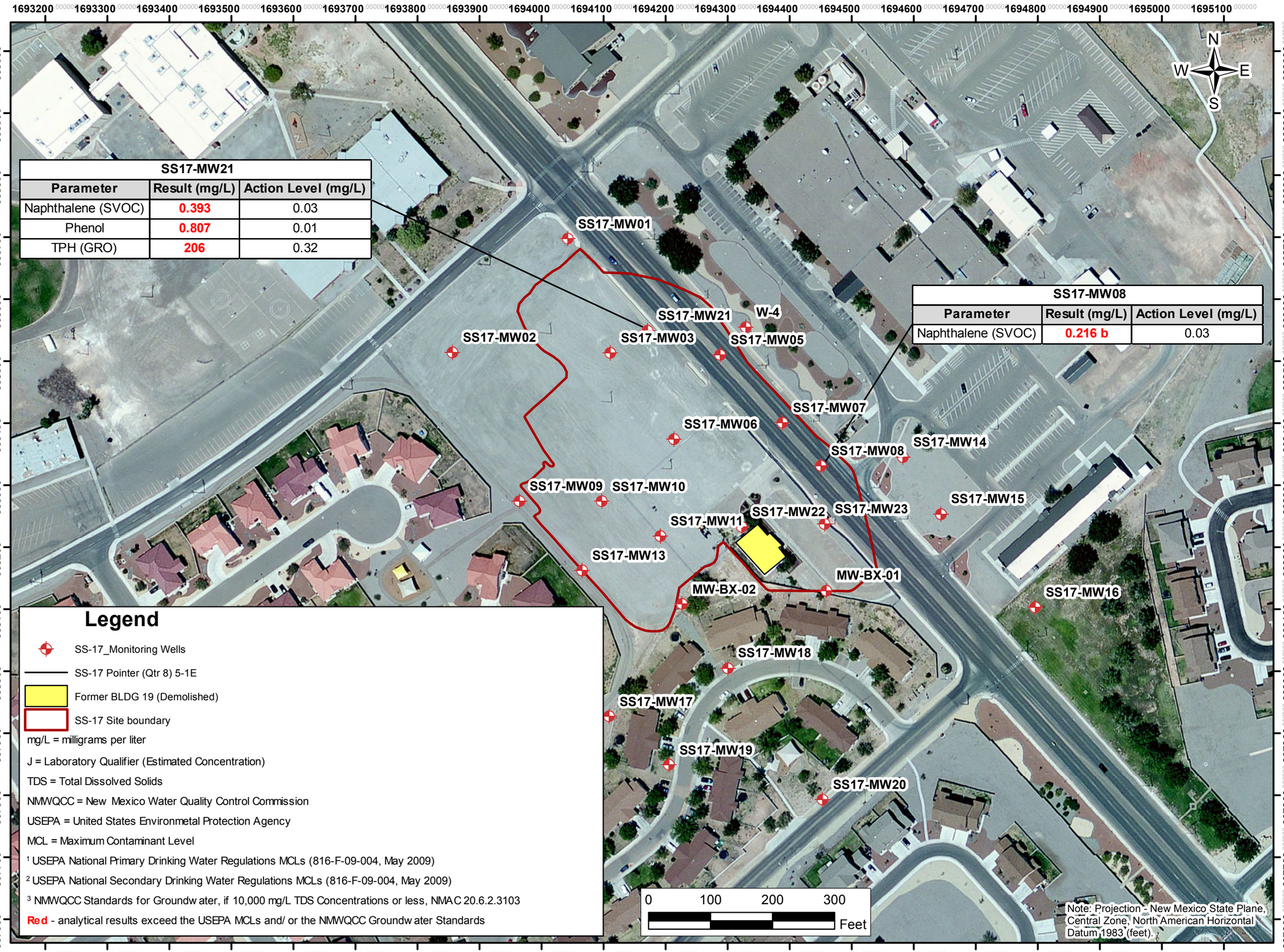
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-1D

SS-17
Groundwater Analytical Results
VOCs Above Action Levels (Qtr 8)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-1D
DATE:	2/22/16
SCALE:	1" = 100'
PROJECT NO:	11-0019

NATIONVIEW



SS17-MW21		
Parameter	Result (mg/L)	Action Level (mg/L)
Naphthalene (SVOC)	0.393	0.03
Phenol	0.807	0.01
TPH (GRO)	206	0.32

SS17-MW08		
Parameter	Result (mg/L)	Action Level (mg/L)
Naphthalene (SVOC)	0.216 b	0.03

Legend

- SS-17_Monitoring Wells
- SS-17 Pointer (Qtr 8) 5-1E
- 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

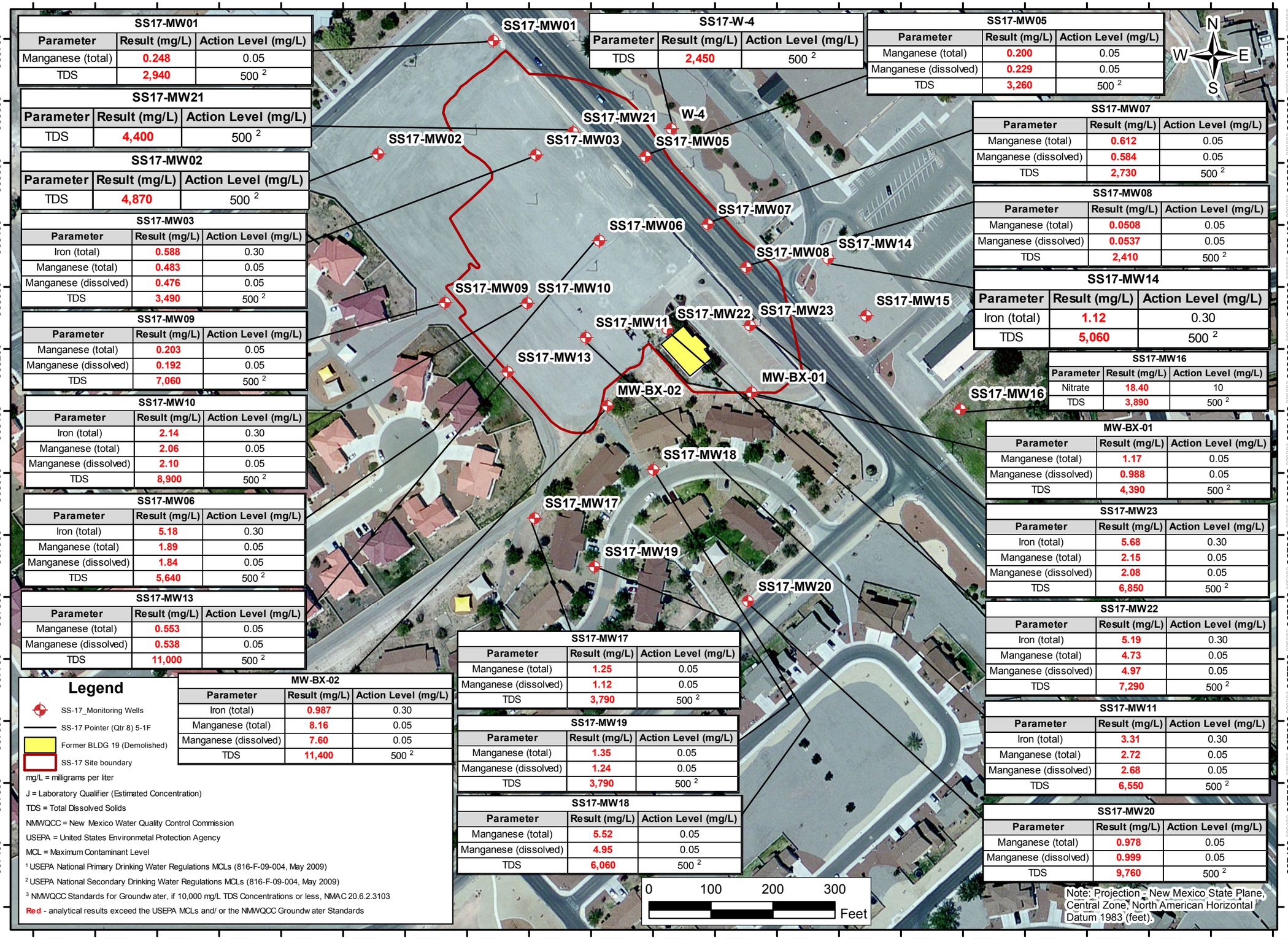
SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-1E

SS-17
Groundwater Analytical Results
SVOCs and TPH Above Action Levels (Qtr 8)

DRAWN BY:	FRE
DRAWING NO.:	Figure 5-1E
DATE:	2/22/16
SCALE:	1" = 100'
PROJECT NO:	11-0019

NATIONVIEW



SS17-MW01		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.248	0.05
TDS	2,940	500 [2]

SS17-MW21		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	4,400	500 [2]

SS17-MW02		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	4,870	500 [2]

SS17-MW03		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	0.588	0.30
Manganese (total)	0.483	0.05
Manganese (dissolved)	0.476	0.05
TDS	3,490	500 [2]

SS17-MW09		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.203	0.05
Manganese (dissolved)	0.192	0.05
TDS	7,060	500 [2]

SS17-MW10		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	2.14	0.30
Manganese (total)	2.06	0.05
Manganese (dissolved)	2.10	0.05
TDS	8,900	500 [2]

SS17-MW06		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	5.18	0.30
Manganese (total)	1.89	0.05
Manganese (dissolved)	1.84	0.05
TDS	5,640	500 [2]

SS17-MW13		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.553	0.05
Manganese (dissolved)	0.538	0.05
TDS	11,000	500 [2]

MW-BX-02		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	0.987	0.30
Manganese (total)	8.16	0.05
Manganese (dissolved)	7.60	0.05
TDS	11,400	500 [2]

SS17-W-4		
Parameter	Result (mg/L)	Action Level (mg/L)
TDS	2,450	500 [2]

SS17-MW05		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.200	0.05
Manganese (dissolved)	0.229	0.05
TDS	3,260	500 [2]

SS17-MW07		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.612	0.05
Manganese (dissolved)	0.584	0.05
TDS	2,730	500 [2]

SS17-MW08		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.0508	0.05
Manganese (dissolved)	0.0537	0.05
TDS	2,410	500 [2]

SS17-MW14		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	1.12	0.30
TDS	5,060	500 [2]

SS17-MW16		
Parameter	Result (mg/L)	Action Level (mg/L)
Nitrate	18.40	10
TDS	3,890	500 [2]

MW-BX-01		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	1.17	0.05
Manganese (dissolved)	0.988	0.05
TDS	4,390	500 [2]

SS17-MW23		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	5.68	0.30
Manganese (total)	2.15	0.05
Manganese (dissolved)	2.08	0.05
TDS	6,850	500 [2]

SS17-MW22		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	5.19	0.30
Manganese (total)	4.73	0.05
Manganese (dissolved)	4.97	0.05
TDS	7,290	500 [2]

SS17-MW11		
Parameter	Result (mg/L)	Action Level (mg/L)
Iron (total)	3.31	0.30
Manganese (total)	2.72	0.05
Manganese (dissolved)	2.68	0.05
TDS	6,550	500 [2]

SS17-MW20		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	0.978	0.05
Manganese (dissolved)	0.999	0.05
TDS	9,760	500 [2]

SS17-MW17		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	1.25	0.05
Manganese (dissolved)	1.12	0.05
TDS	3,790	500 [2]

SS17-MW19		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	1.35	0.05
Manganese (dissolved)	1.24	0.05
TDS	3,790	500 [2]

SS17-MW18		
Parameter	Result (mg/L)	Action Level (mg/L)
Manganese (total)	5.52	0.05
Manganese (dissolved)	4.95	0.05
TDS	6,060	500 [2]

Legend

- SS-17_Monitoring Wells
- SS-17 Pointer (Qtr 8) 5-1F
- 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

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[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

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

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-1F

SS-17
Groundwater Analytical Results
MNA Above Action Levels (Qtr 8)

DRAWN BY: FRE

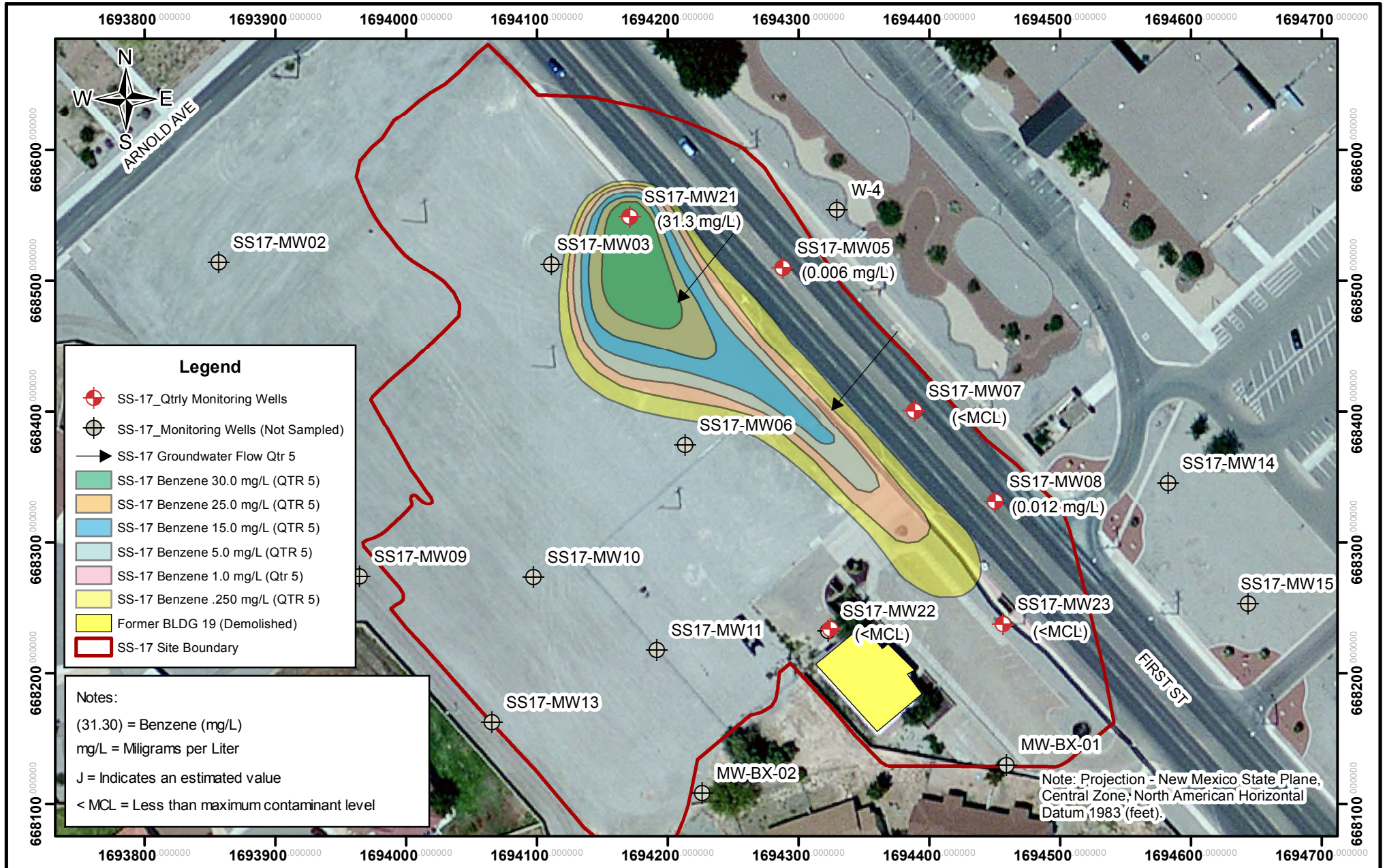
DRAWING NO.: Figure 5-1F

DATE: 2/22/16

SCALE: 1" = 100'

PROJECT NO: 11-0019

NATIONVIEW



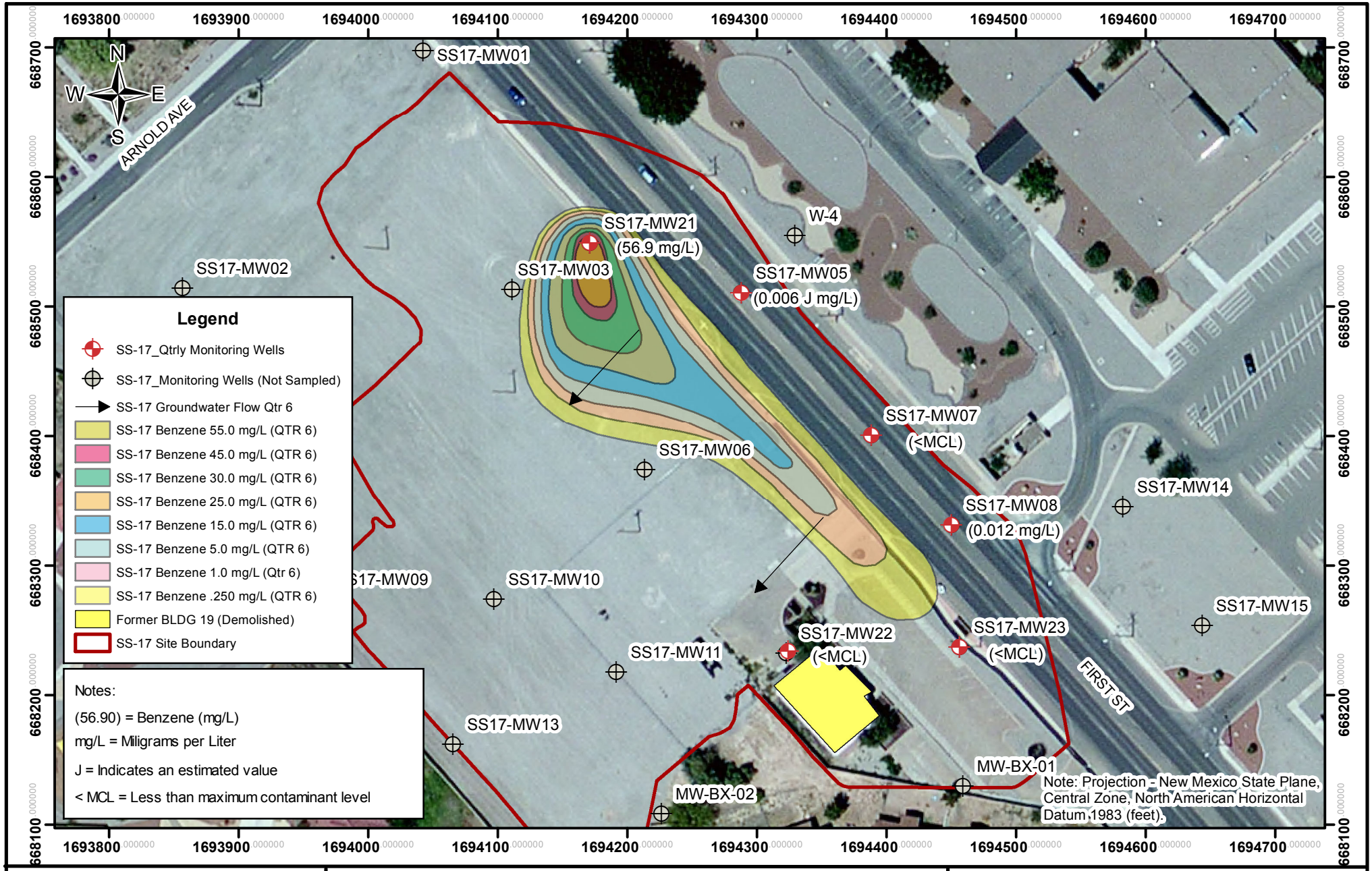
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene (Qtr 5)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-2A

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-2A



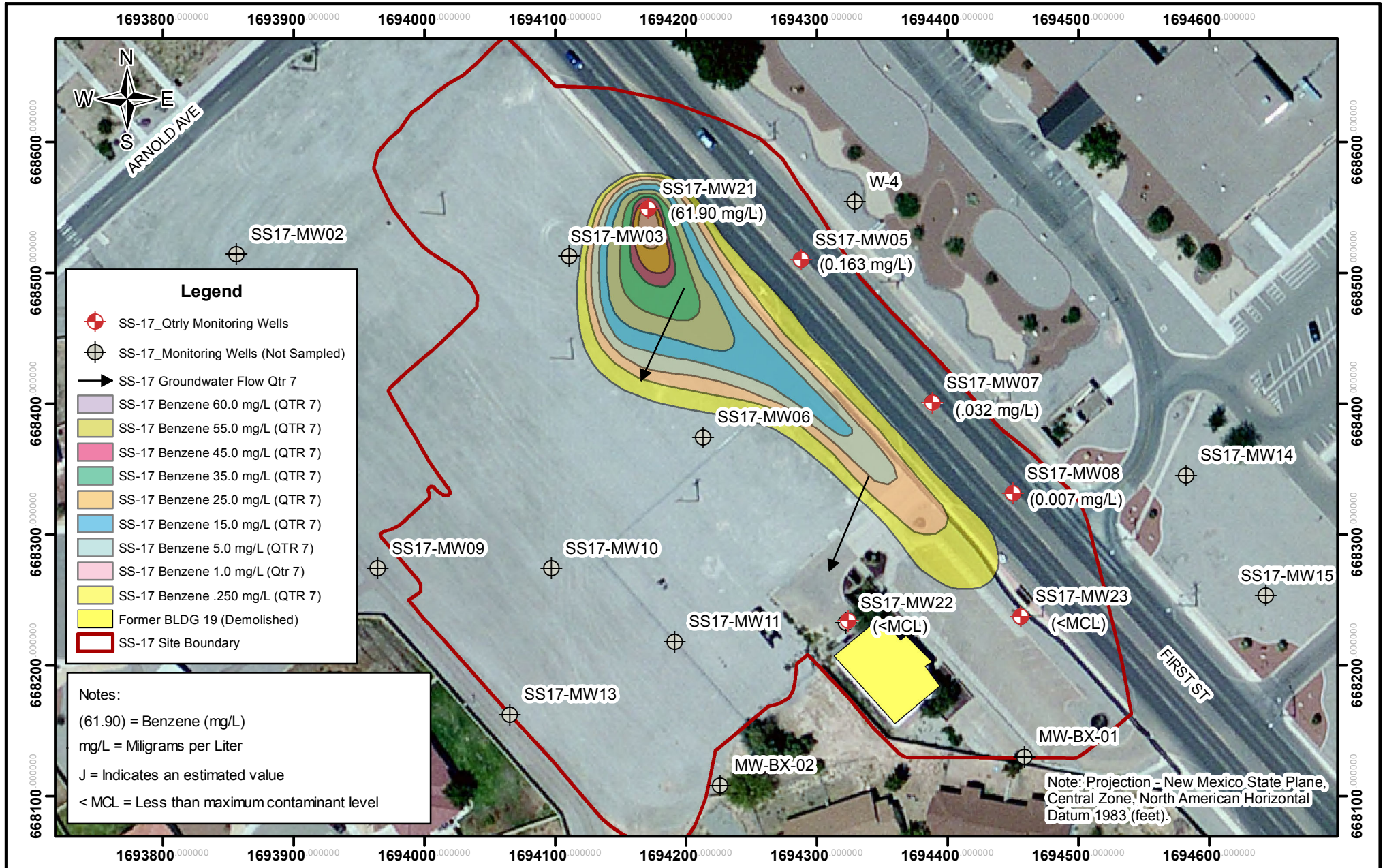
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene (Qtr 6)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-2B

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-2B



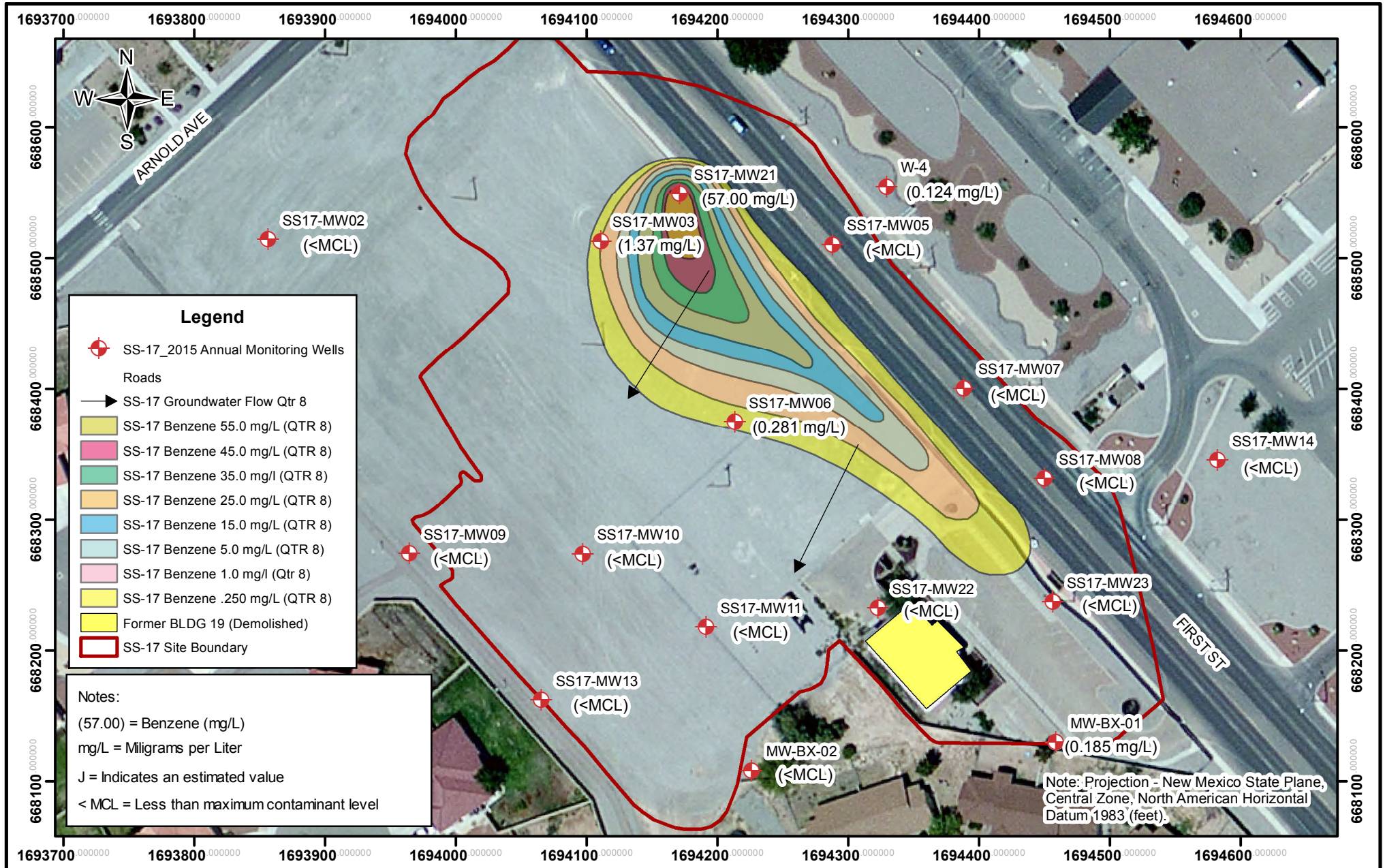
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Benzene (Qtr 7)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-2C

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-2C



NATIONVIEW

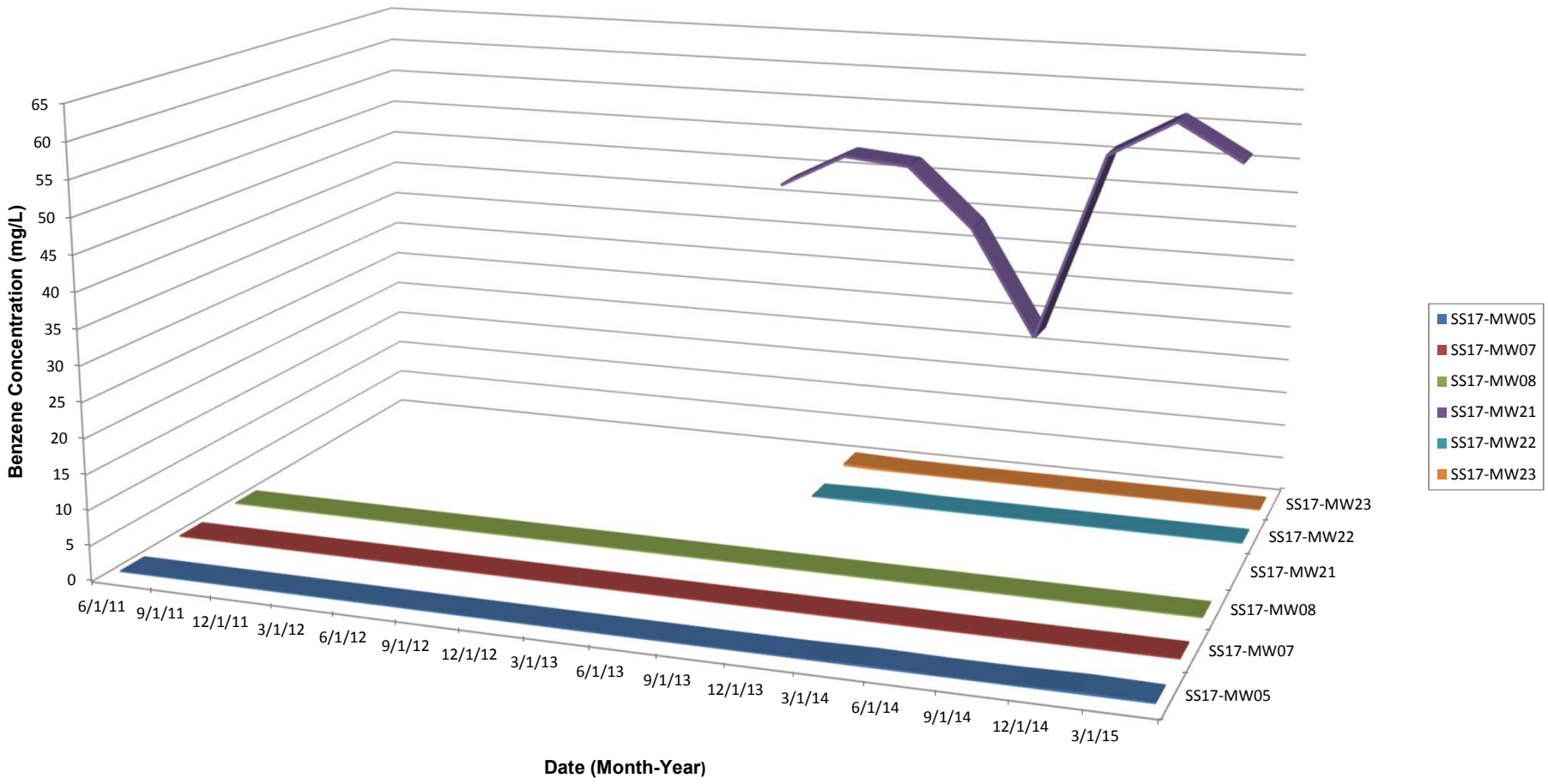
SS-17
Groundwater Analytical Results - Benzene (Qtr 8)

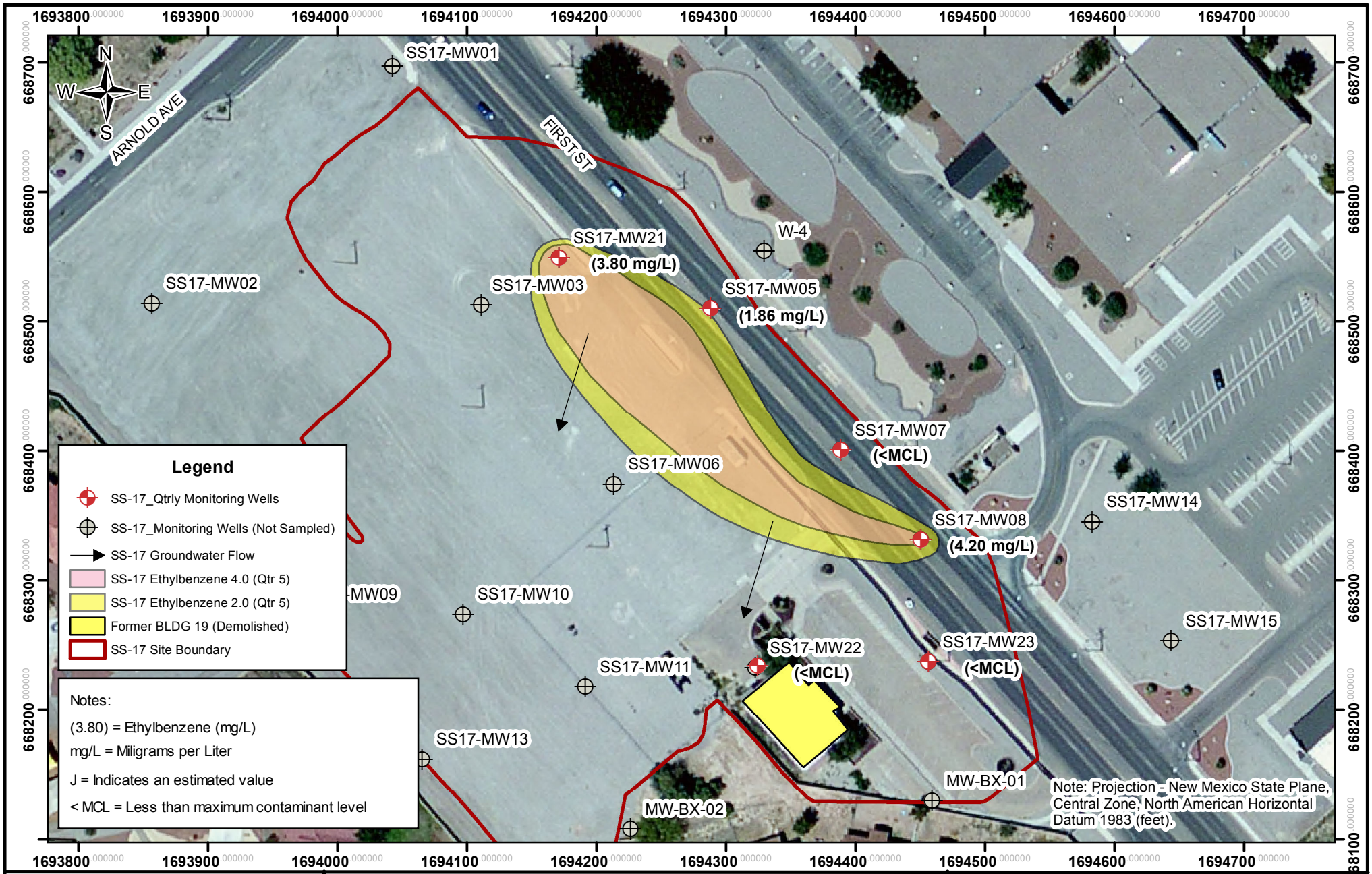
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-2D

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-2D

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





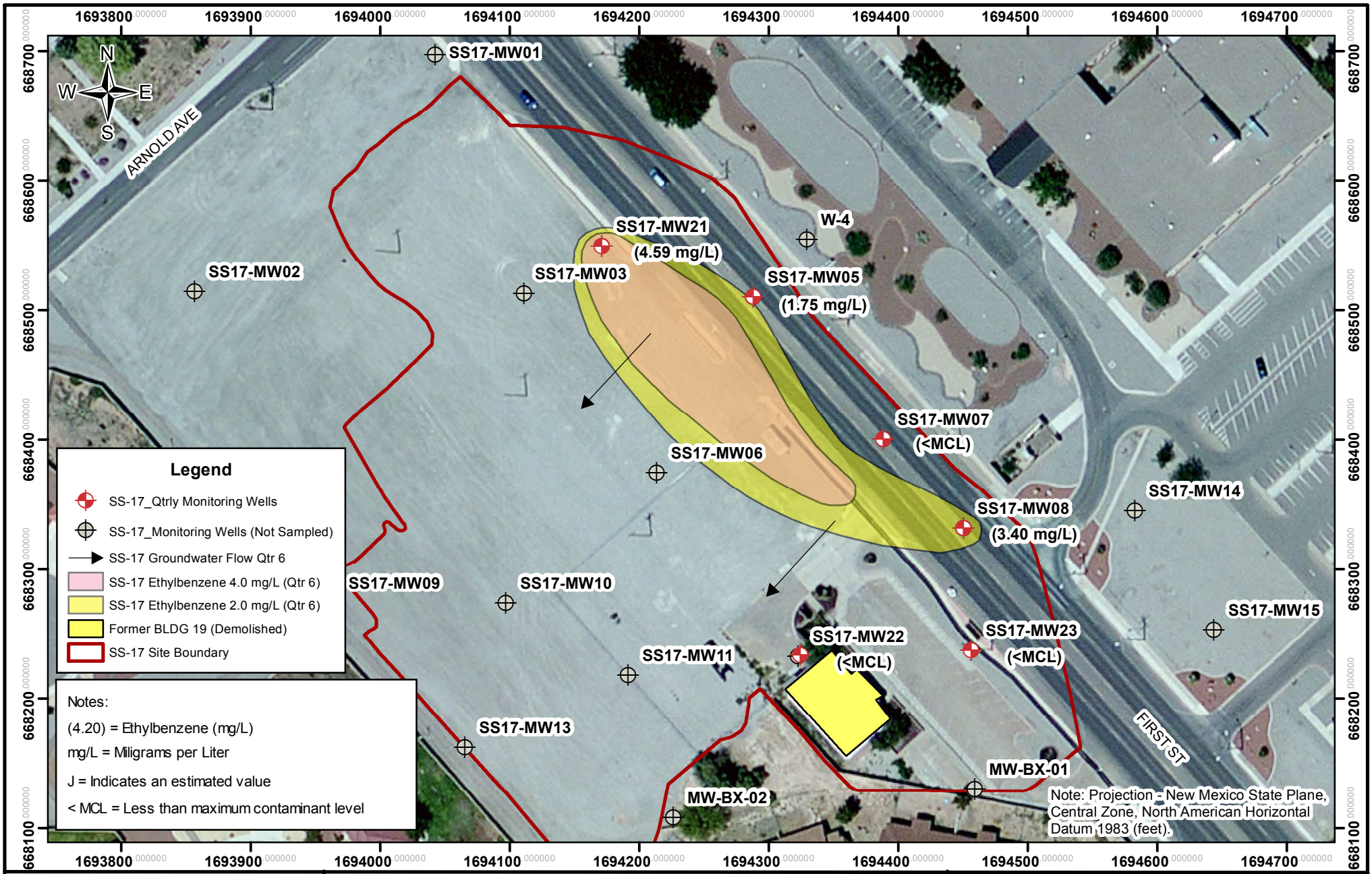
NATIONVIEW

SS-17
Groundwater Analytical Results - Ethylbenzene (Qtr 5)

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

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-3A



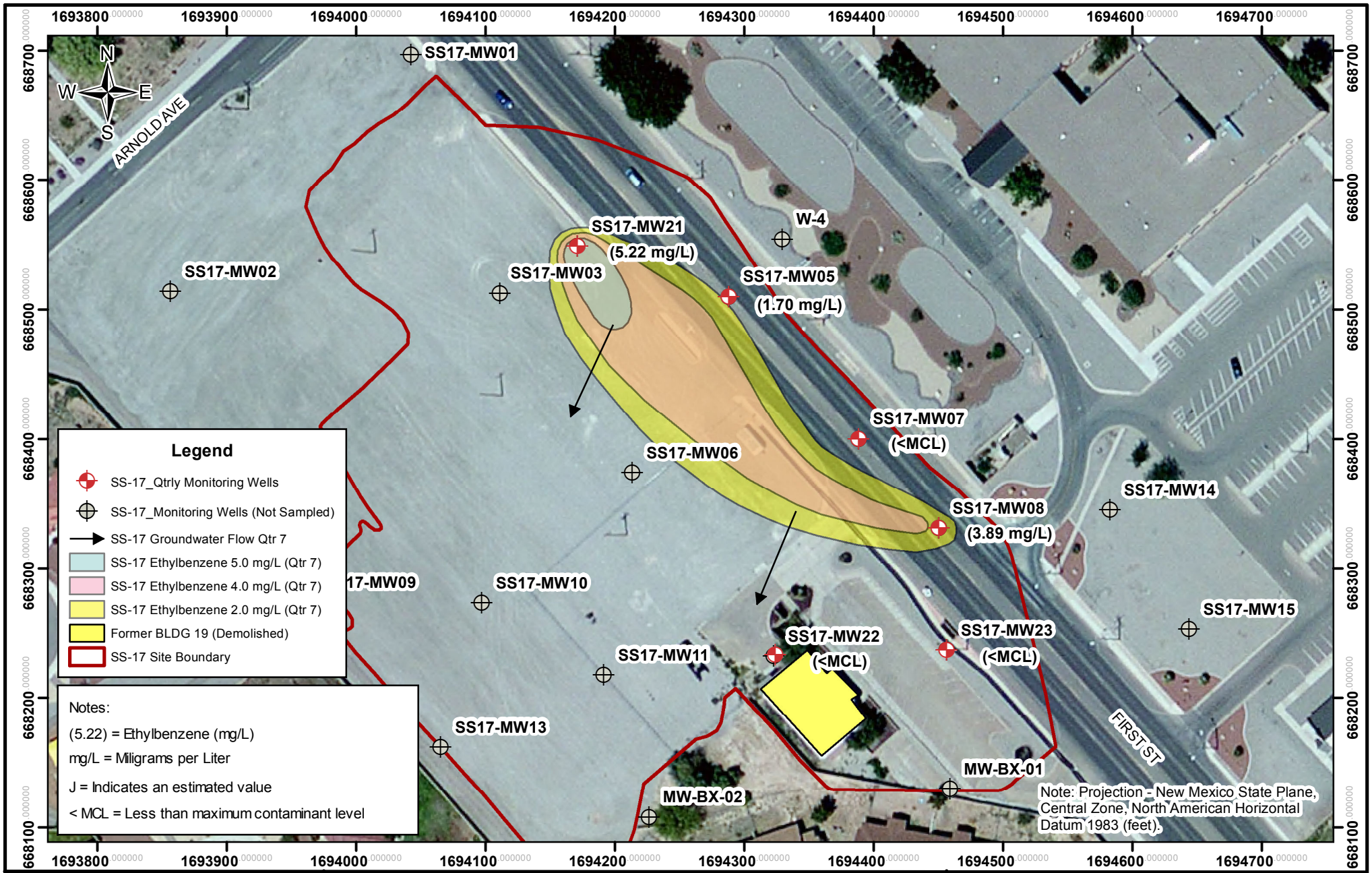
NATIONVIEW

SS-17
Groundwater Analytical Results - Ethylbenzene (Qtr 6)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-3B

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-3B



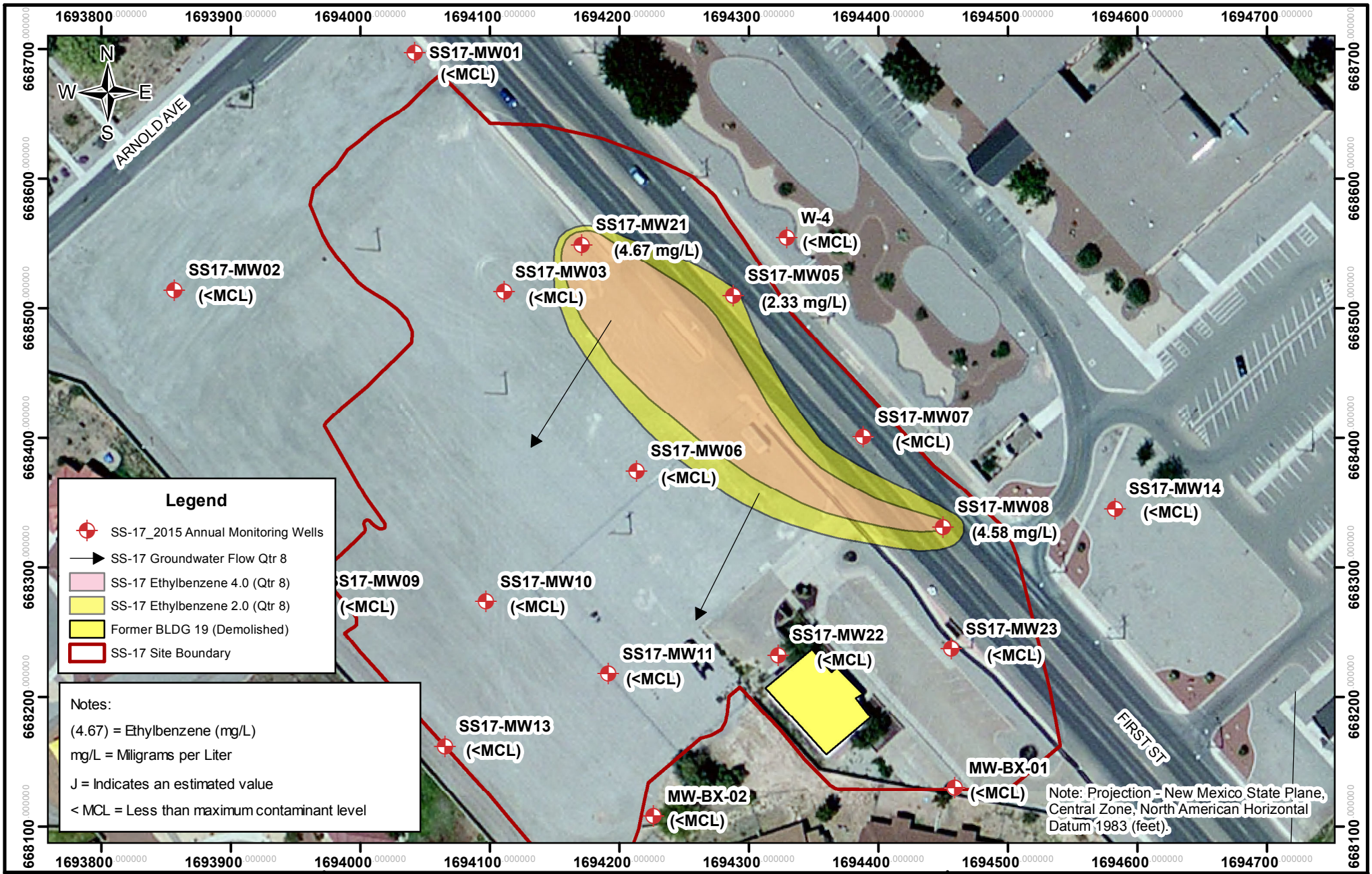
NATIONVIEW

SS-17
Groundwater Analytical Results - Ethylbenzene (Qtr 7)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-3C

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-3C



NATIONVIEW

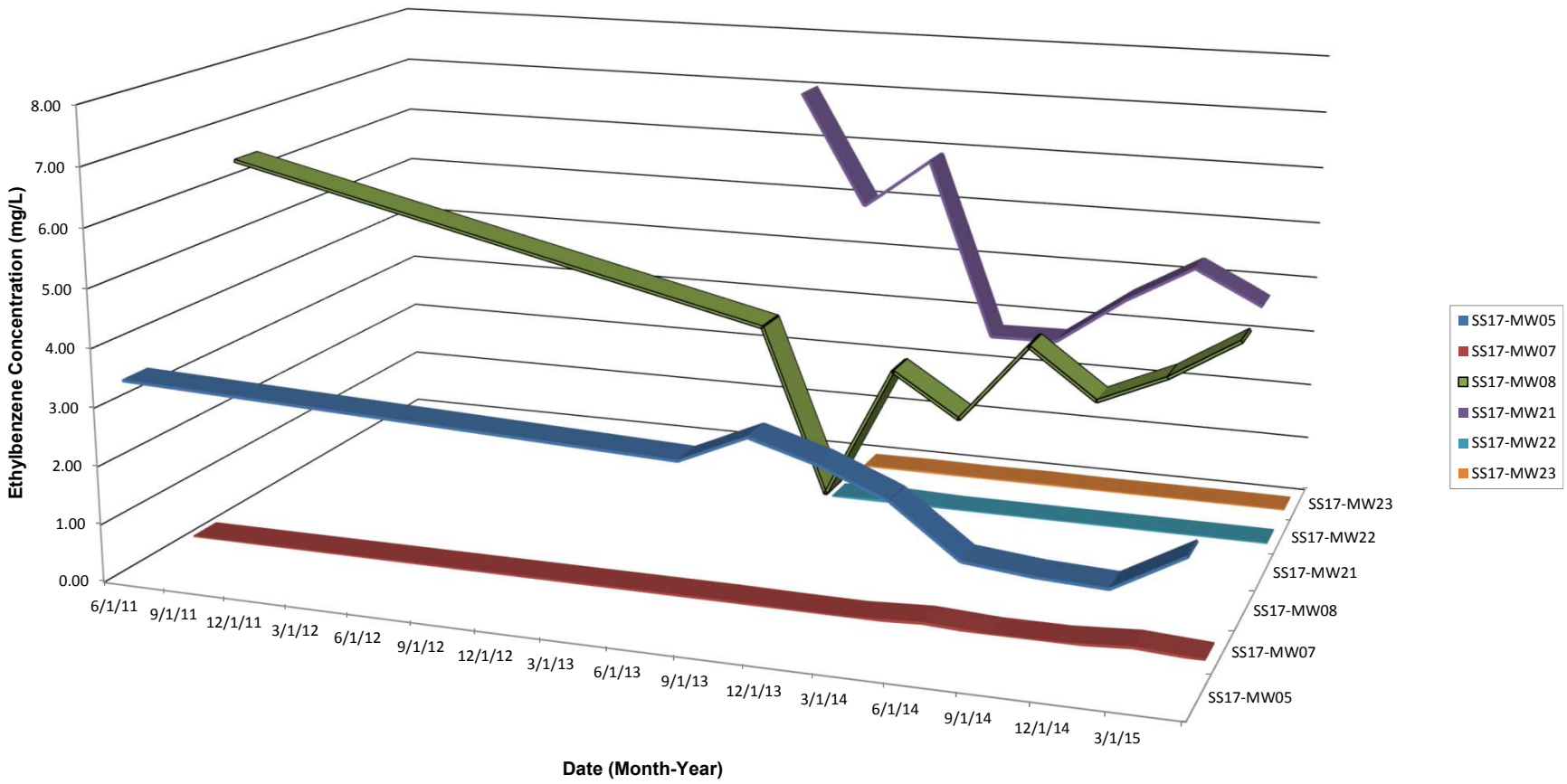
SS-17
Groundwater Analytical Results - Ethylbenzene (Qtr 8)

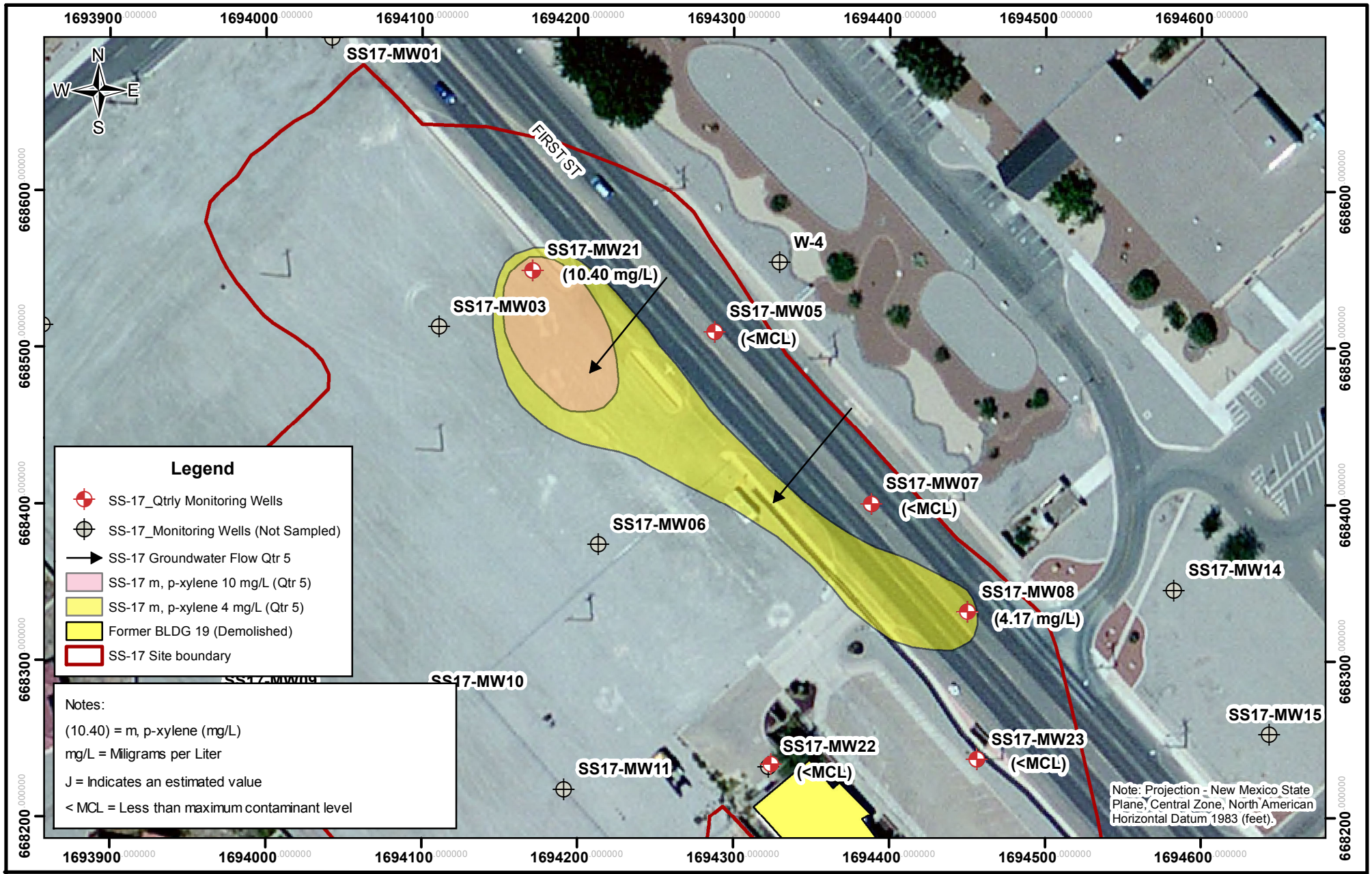
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/26/15	FRE
			DRAWING NO: Figure 5-3D

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-3D

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





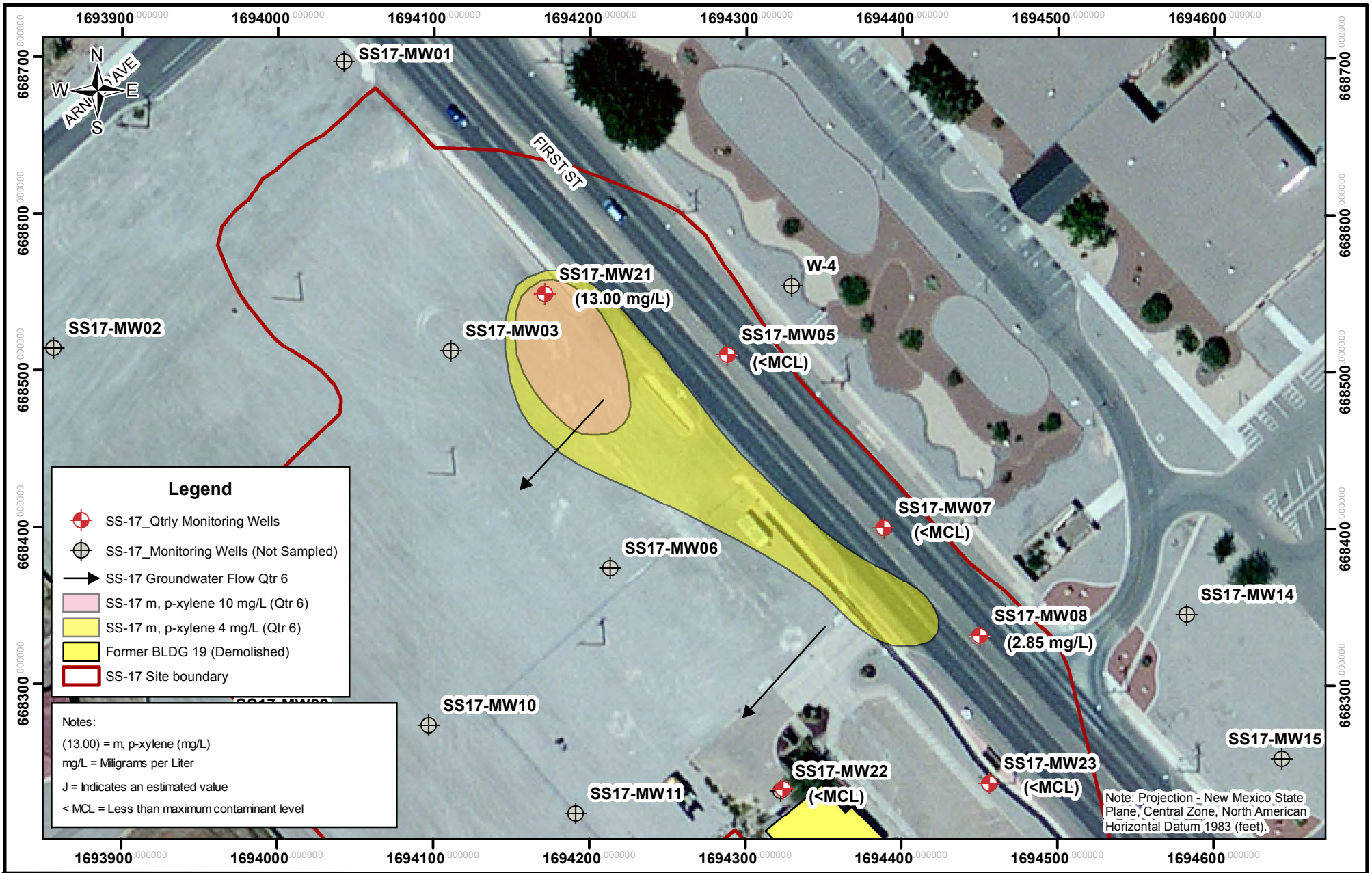
NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene (Qtr 5)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-4A

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-4A



NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene (Qtr 6)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-4B

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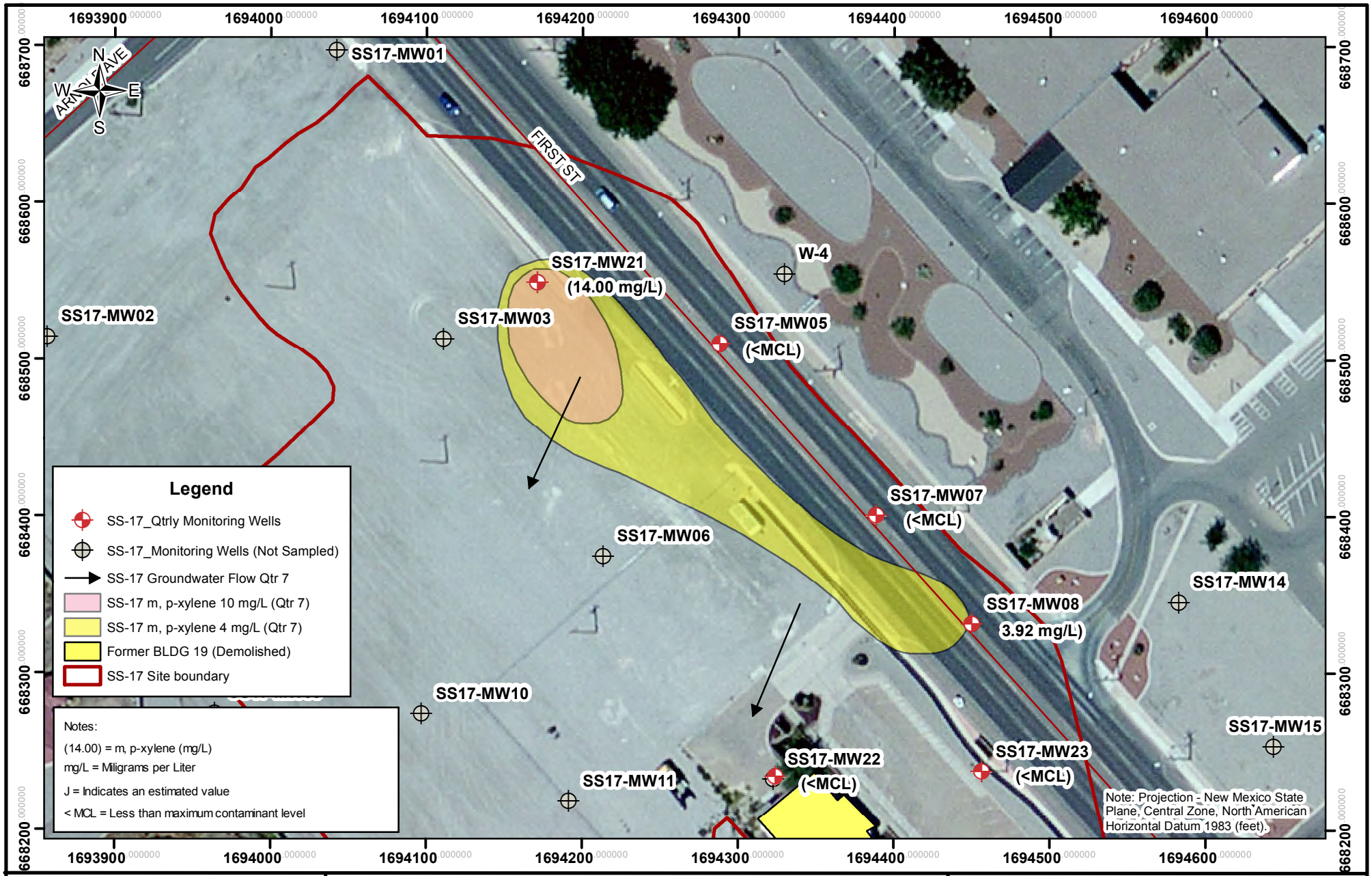
Holloman Air Force Base, New Mexico

Figure 5-4B



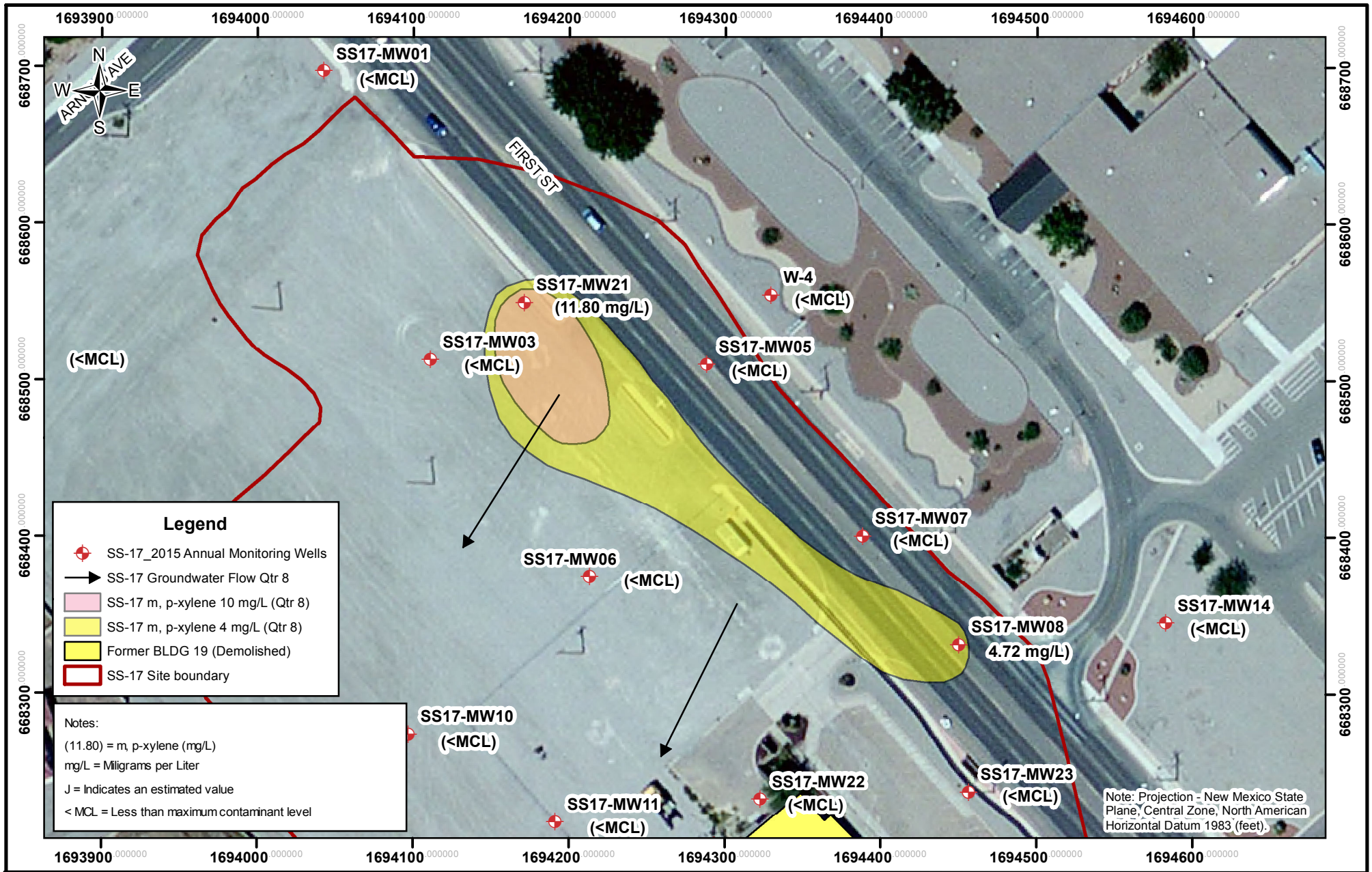
NATIONVIEW

Site SS-17
Groundwater Analytical Results - m,p-xylene (Qtr 7)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-4C

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-4C



NATIONVIEW

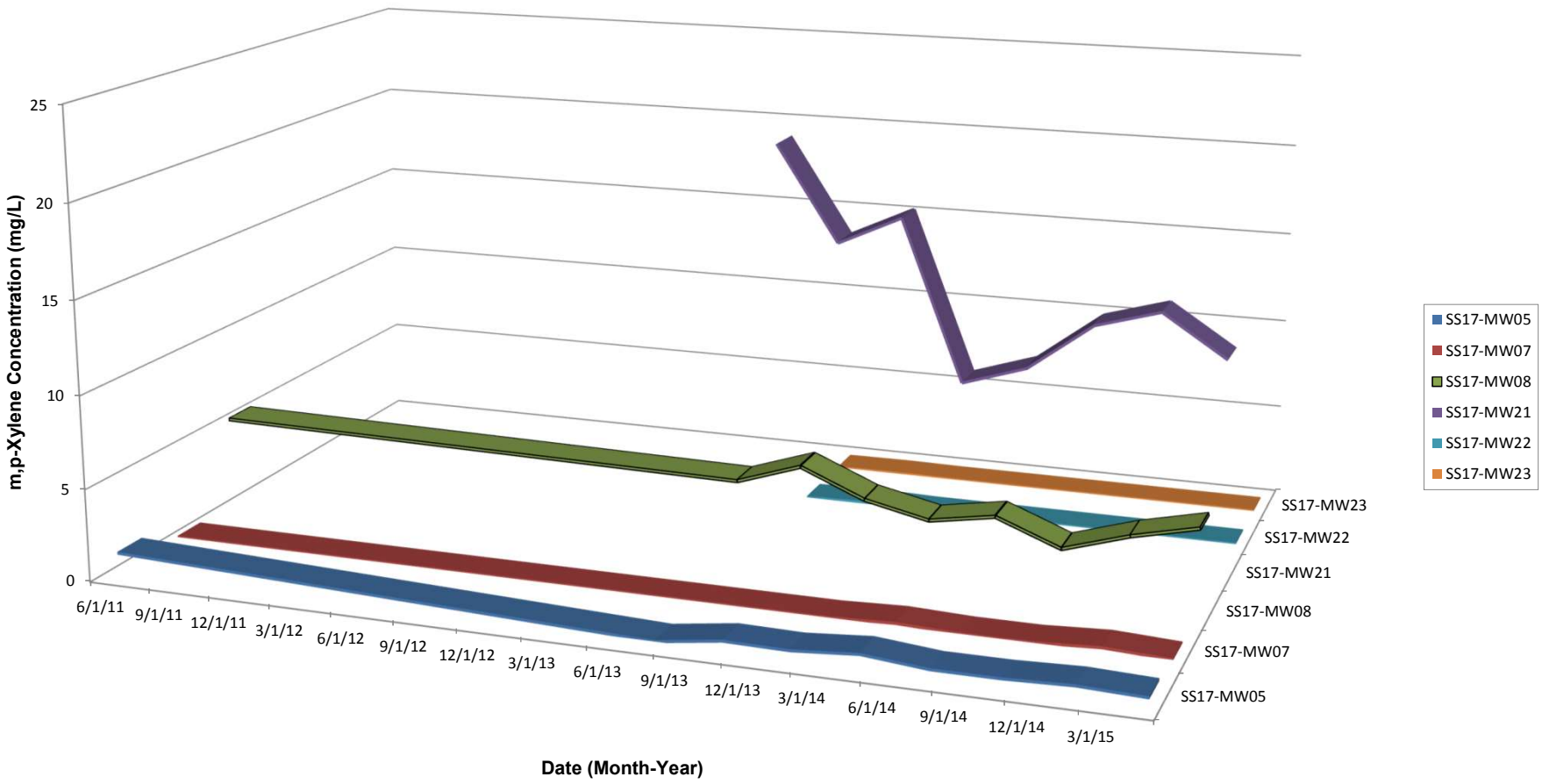
Site SS-17
Groundwater Analytical Results - m,p-xylene (Qtr 8)

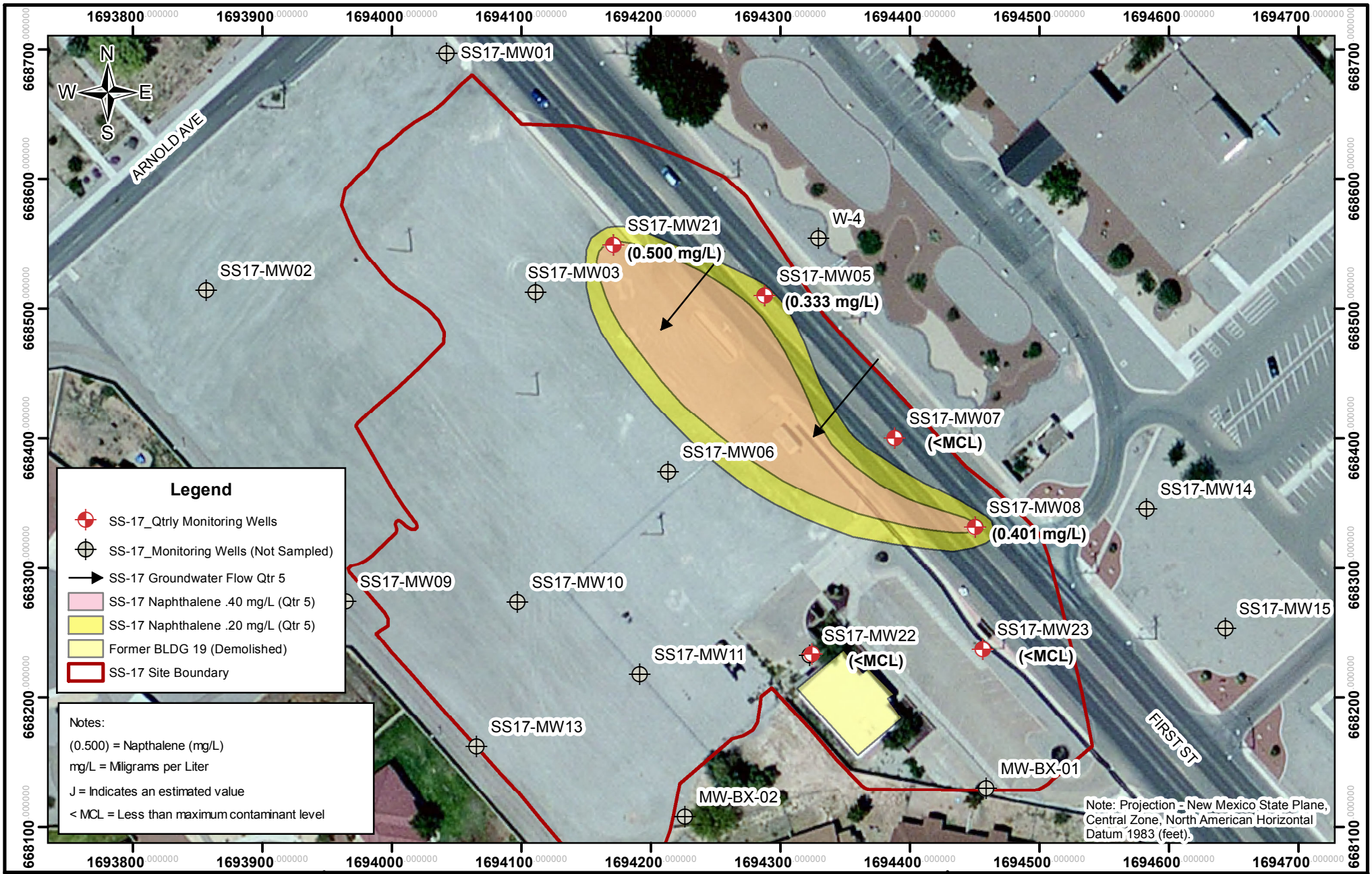
PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-4D

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-4D

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





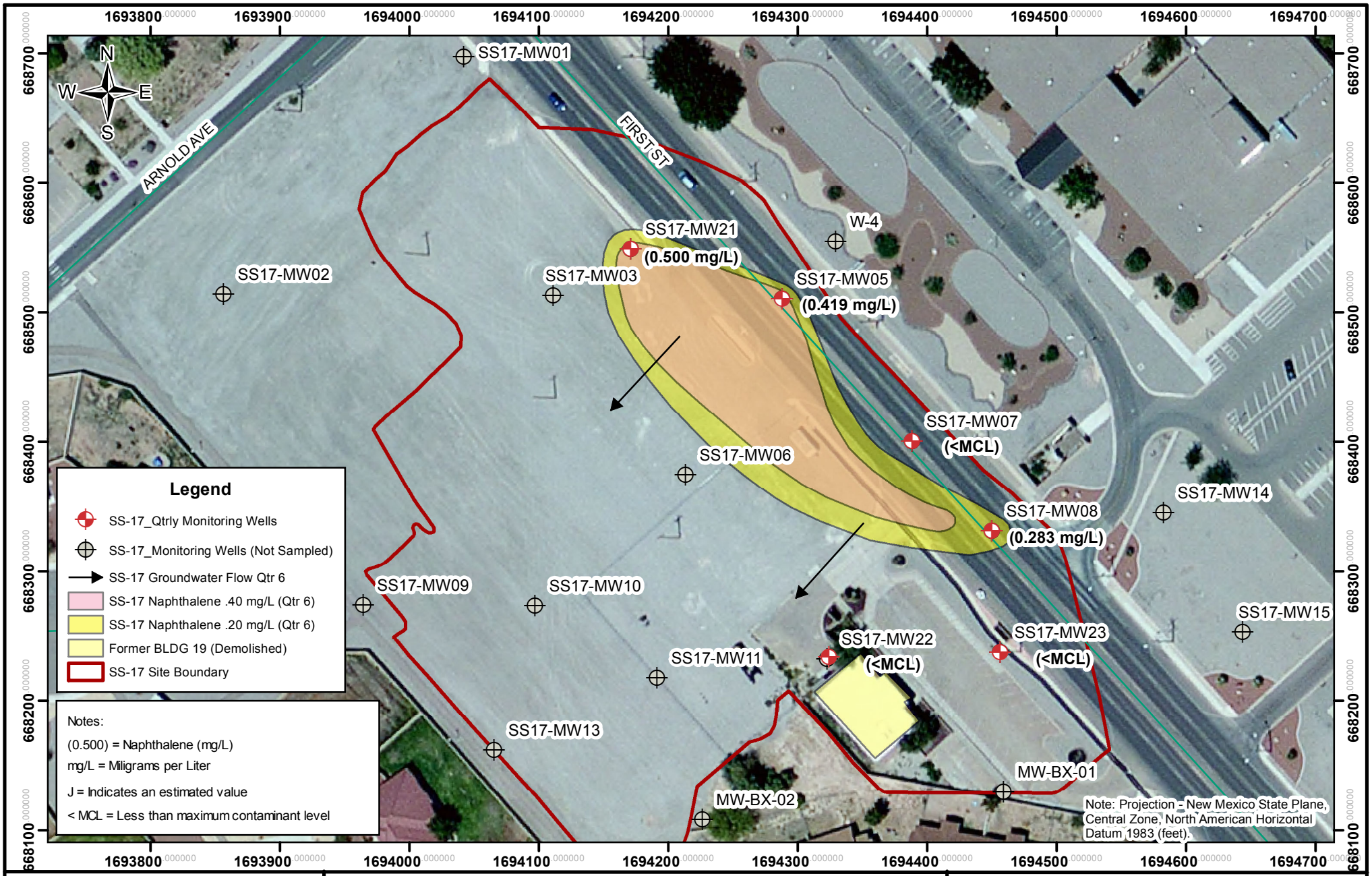
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Naphthalene (Qtr 5)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-5A

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-5A



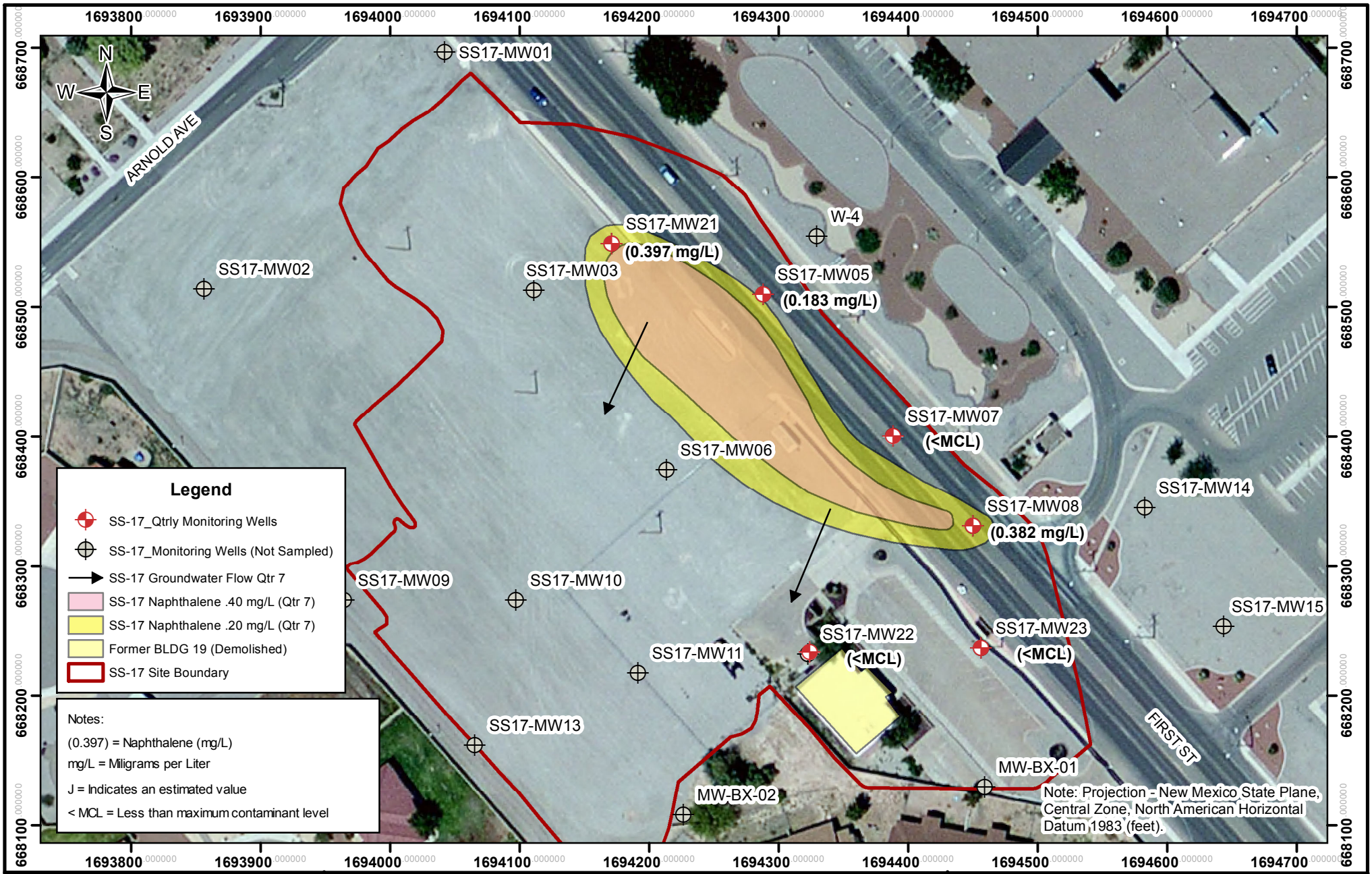
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Naphthalene (Qtr 6)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-5B

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-5B



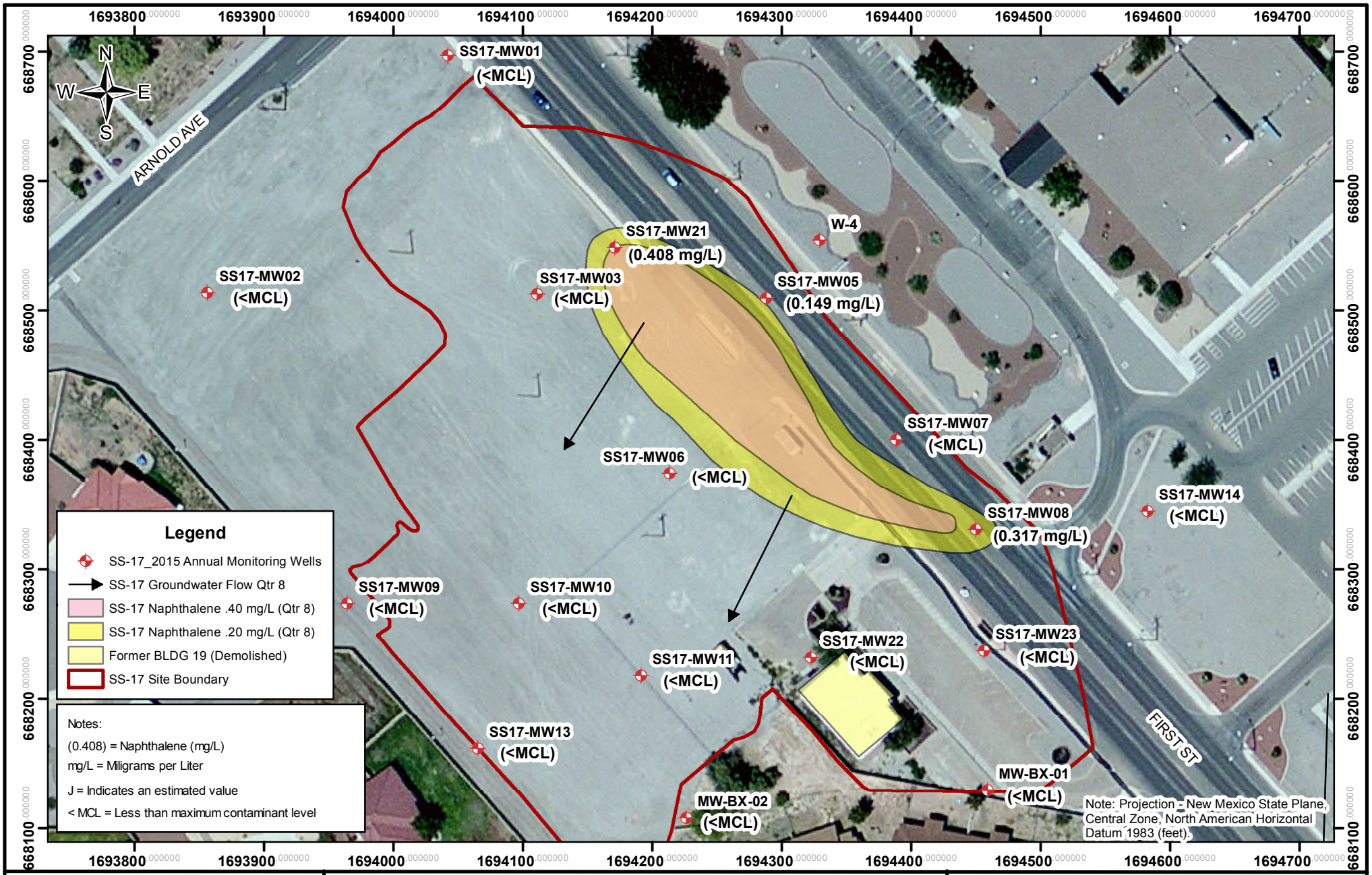
NATIONVIEW

Site SS-17
Groundwater Analytical Results - Naphthalene (Qtr 7)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-5B

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-5C



NATIONVIEW

Site SS-17
Groundwater Analytical Results - Naphthalene (Qtr 8)

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
11-0019	0 100 200 Feet	6/30/15	FRE
			DRAWING NO: Figure 5-5B

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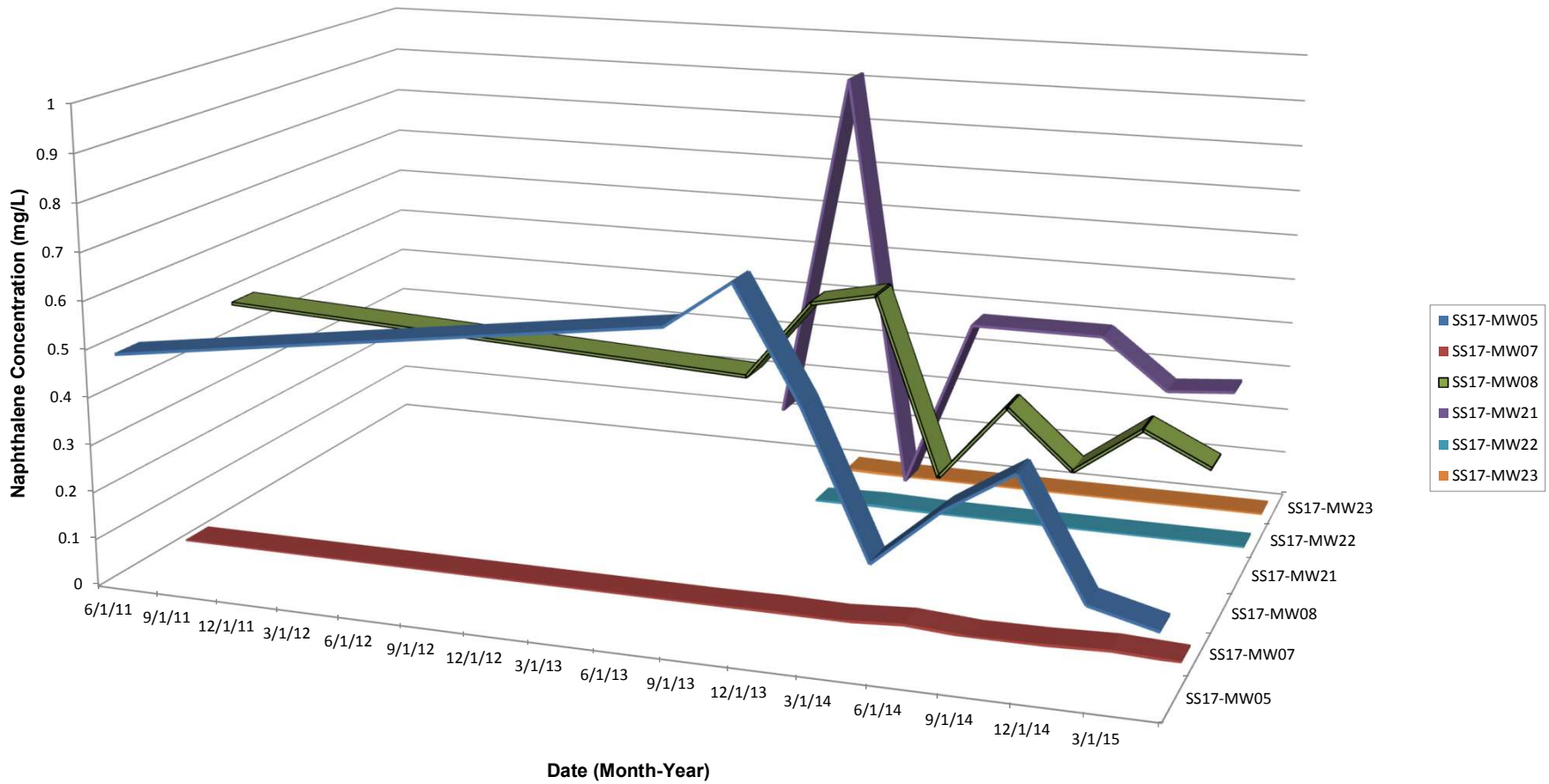
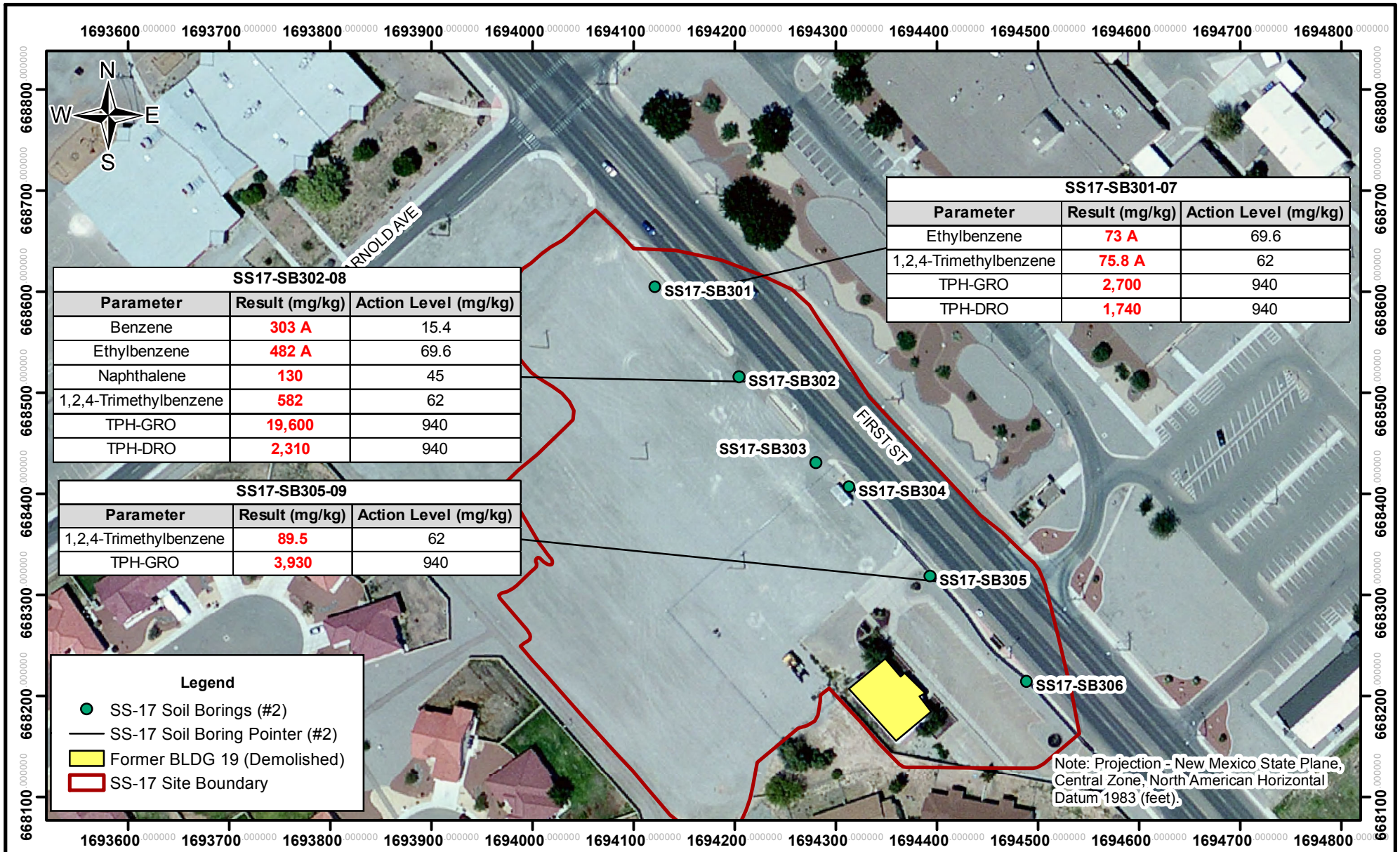
Long Term Monitoring
Annual Report - 2015
Holloman Air Force Base, New Mexico

Figure 5-5D

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





SS17-SB301-07

Parameter	Result (mg/kg)	Action Level (mg/kg)
Ethylbenzene	73 A	69.6
1,2,4-Trimethylbenzene	75.8 A	62
TPH-GRO	2,700	940
TPH-DRO	1,740	940

SS17-SB302-08

Parameter	Result (mg/kg)	Action Level (mg/kg)
Benzene	303 A	15.4
Ethylbenzene	482 A	69.6
Naphthalene	130	45
1,2,4-Trimethylbenzene	582	62
TPH-GRO	19,600	940
TPH-DRO	2,310	940

SS17-SB305-09

Parameter	Result (mg/kg)	Action Level (mg/kg)
1,2,4-Trimethylbenzene	89.5	62
TPH-GRO	3,930	940

NATIONVIEW

SS-17
Annual Soil Analytical Results (#2)

PROJECT NO: 11-0019

SCALE: 0 100 200 Feet

DATE: 6/30/15

DRAWN BY: FRE

DRAWING NO: Figure 5-6

SS-17
Long Term Monitoring
Annual Report - 2015
Holloman Air Fiorce Base, New Mexico

Figure 5-6

Figure 6-1
Total Iron Concentration Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019

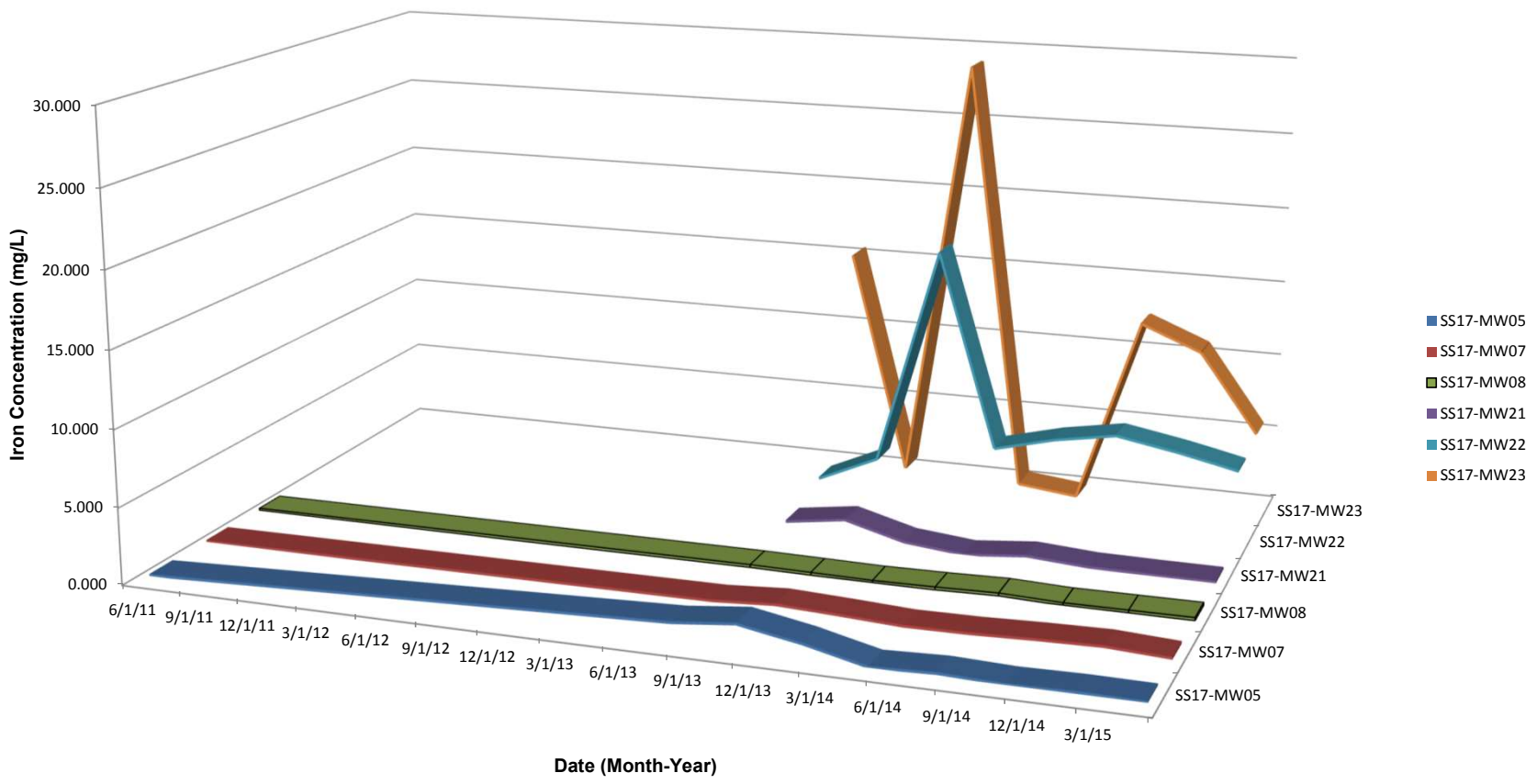


Figure 6-2
Dissolved Manganese Concentration Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019

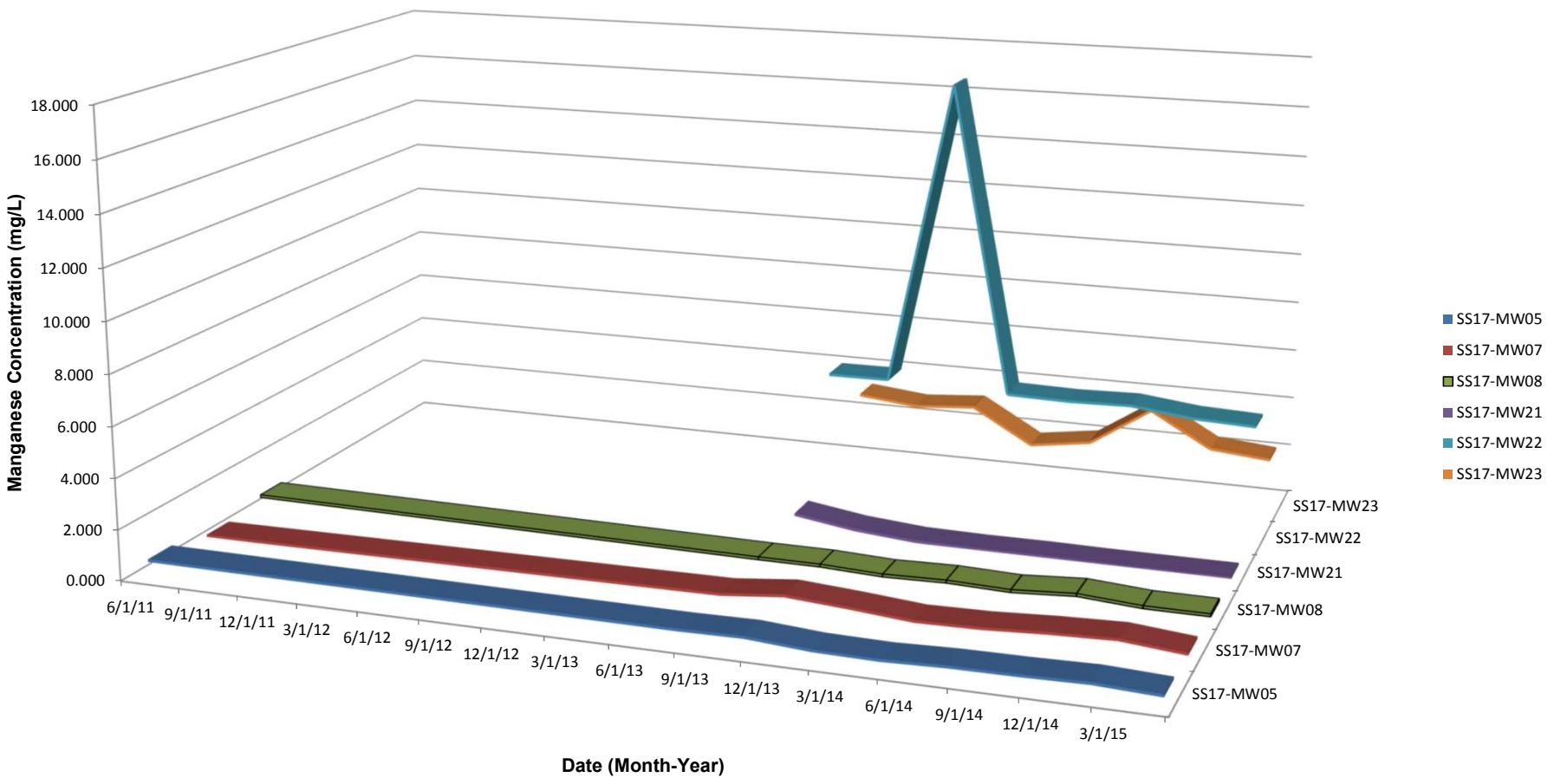


Figure 6-3
Total Petroleum Hydrocarbons Concentration Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019

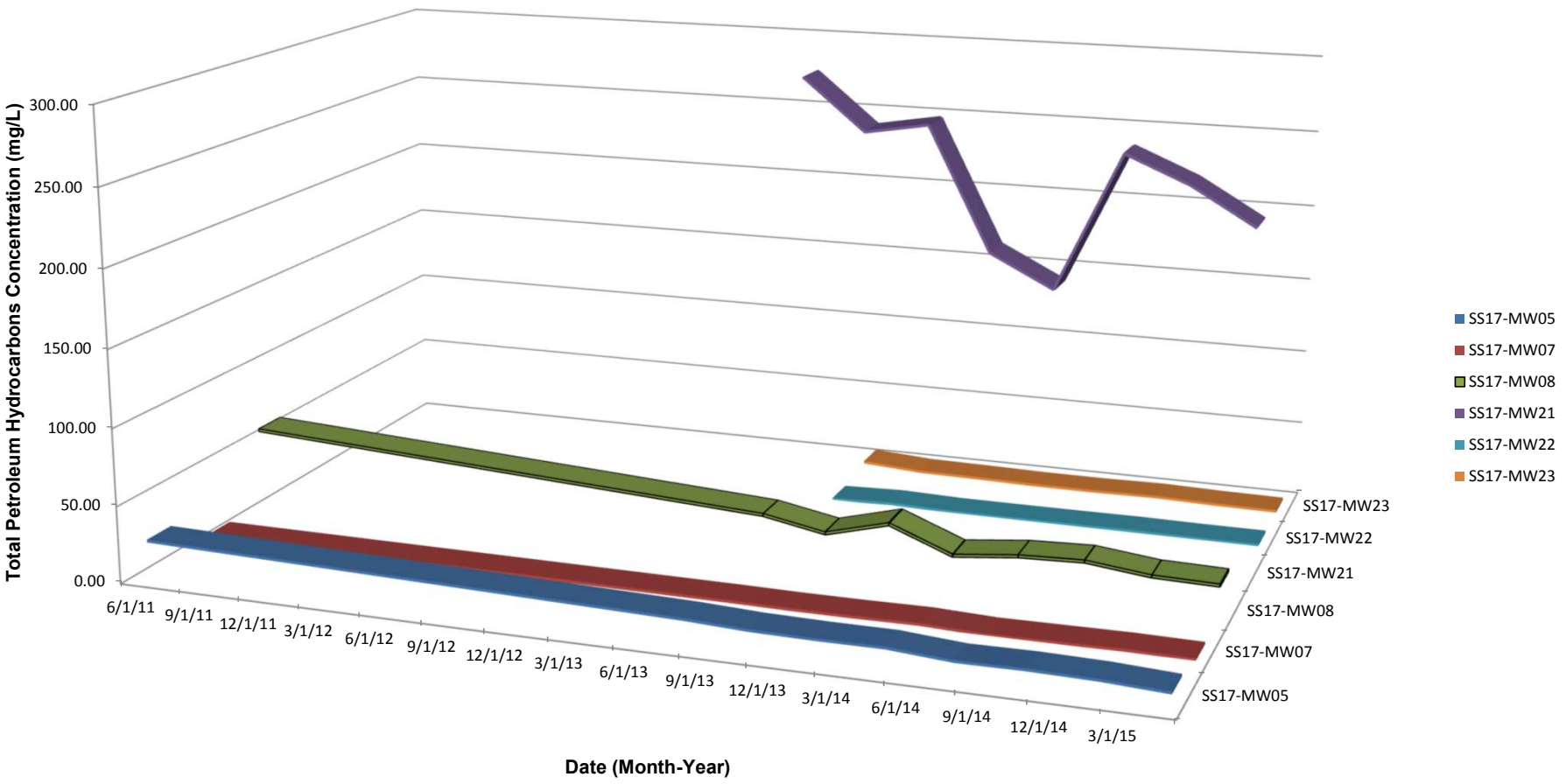


Figure 6-4
Nitrate Concentration Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019

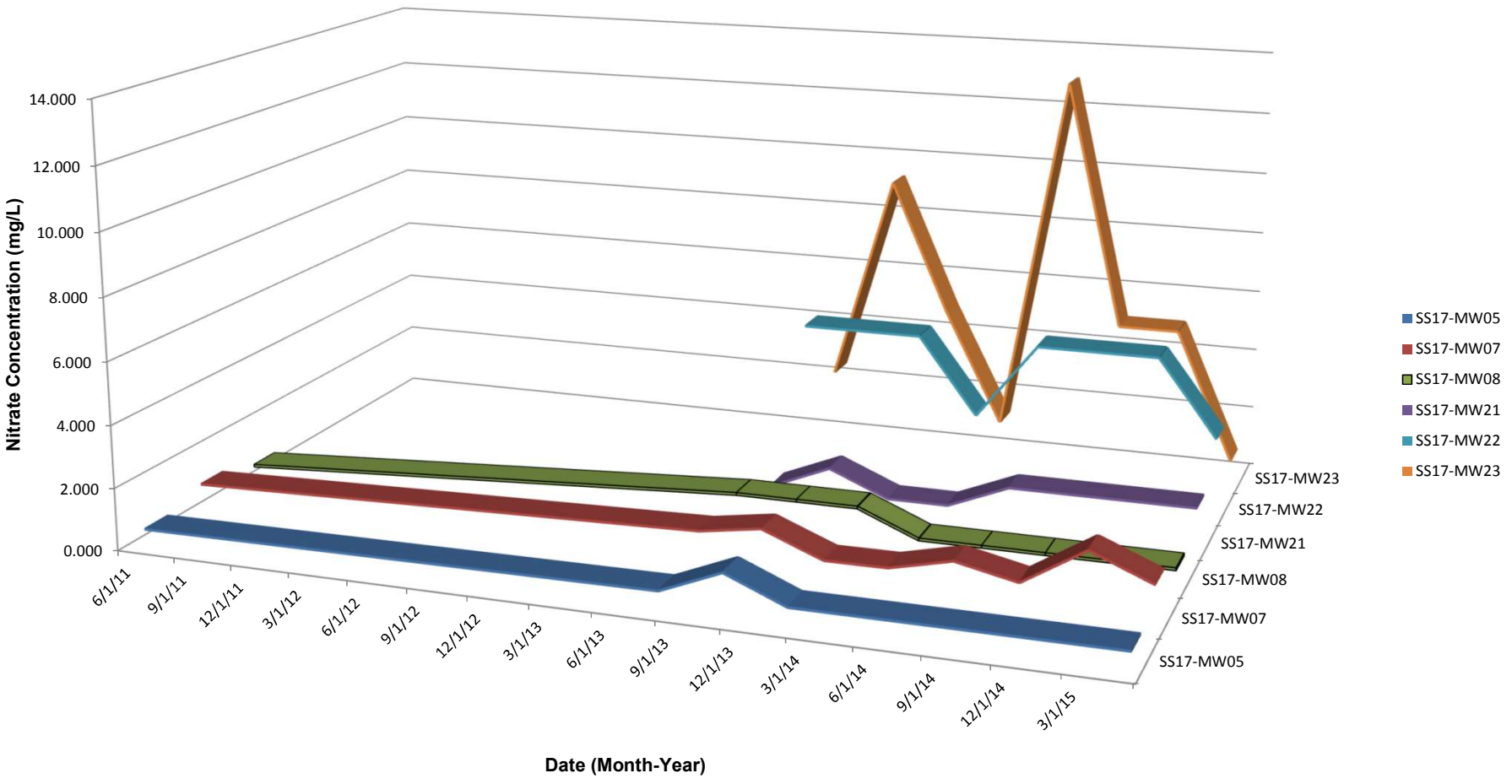


Figure 6-5
Sulfate Concentration Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019

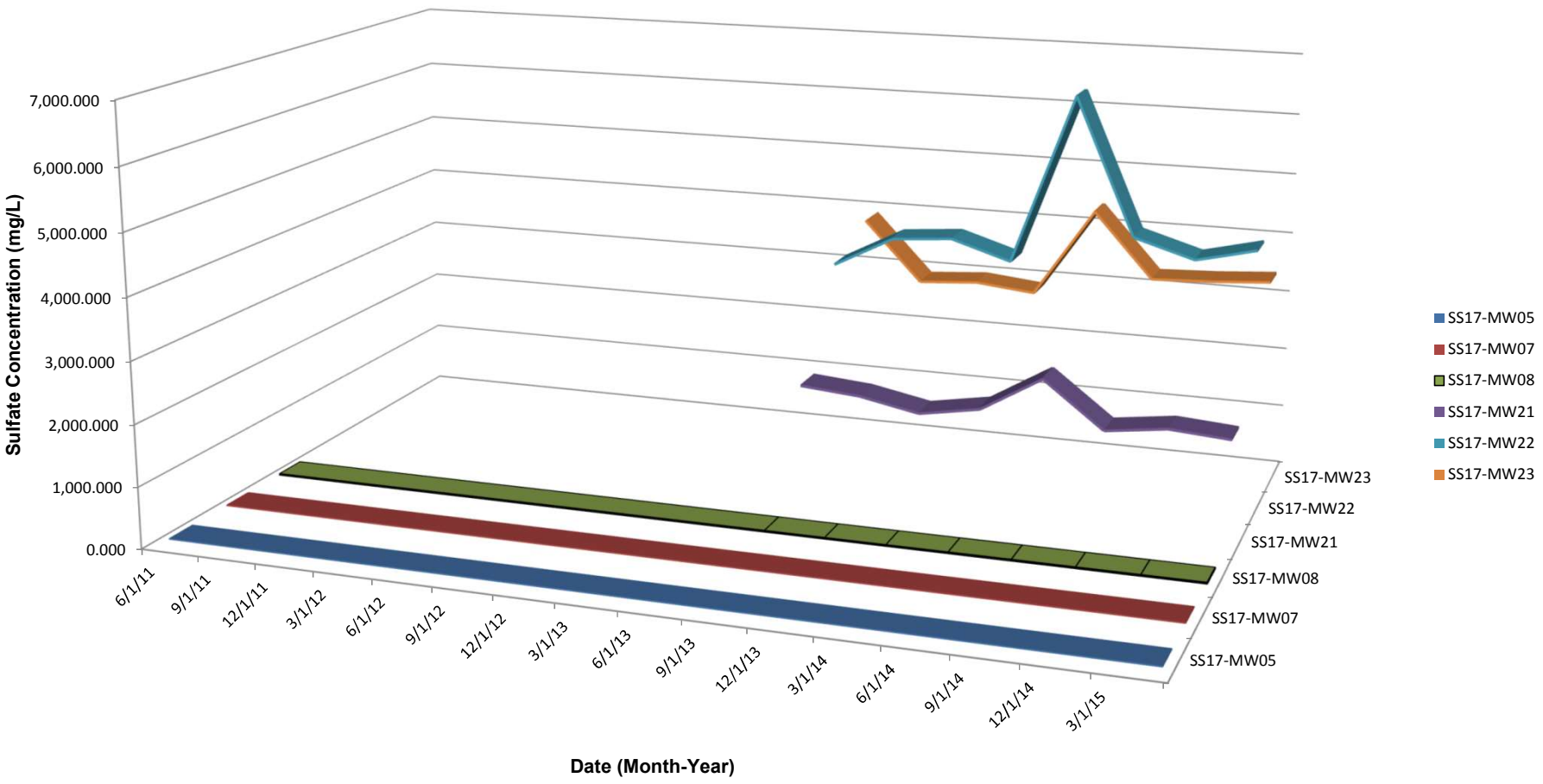
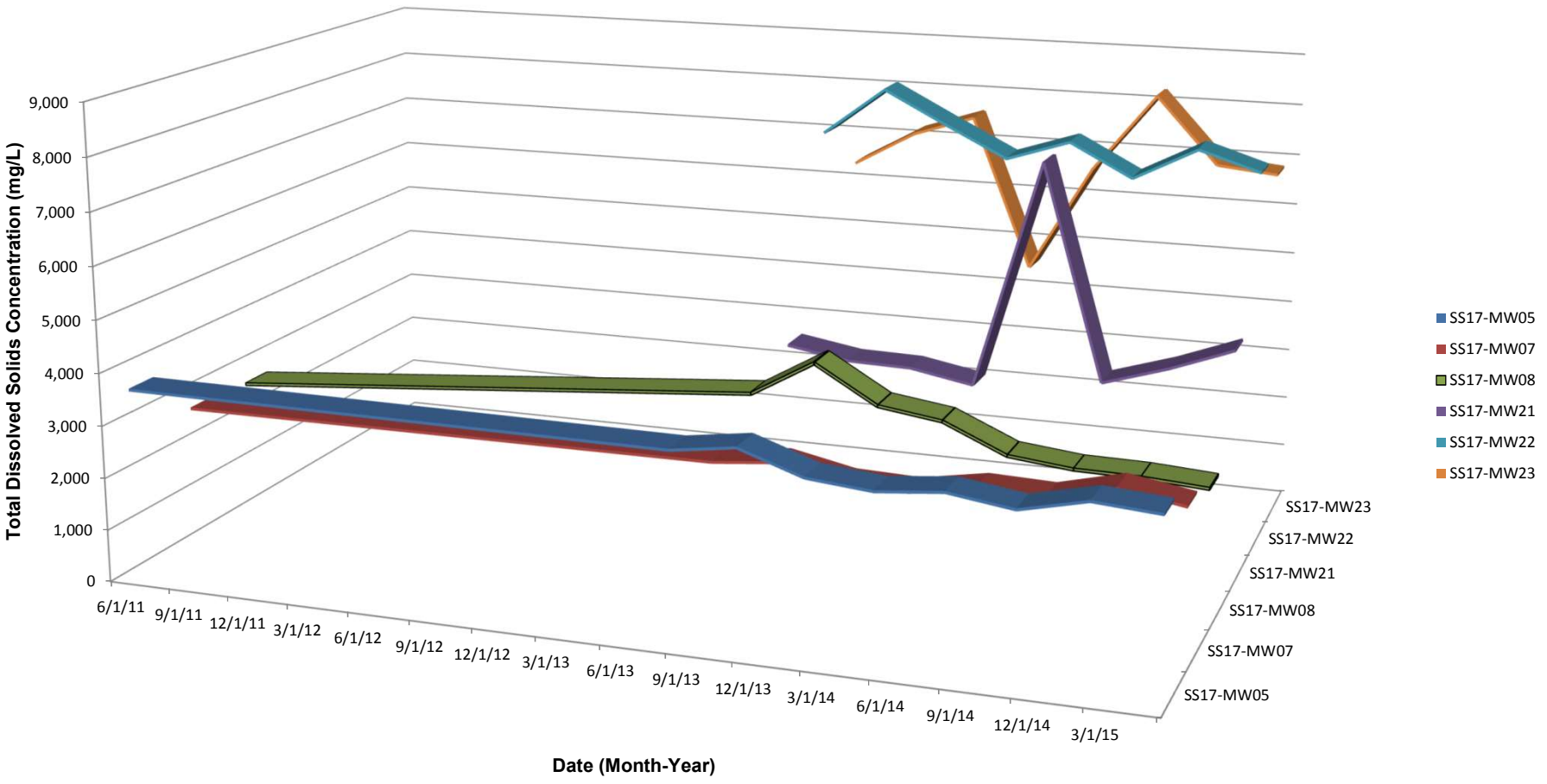


Figure 6-6
Total Dissolved Solids Trends in SS-17 Monitoring Wells
Holloman Air Force Base, New Mexico
NationView Project No: 11-0019



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APPENDIX B

SACM 2013 Historic Data Tables

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Table 2-8
Groundwater Anaytical Results (June 2011)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		MW-BX-01			SS17-MW01			MW-BX-02			SS17-MW02			SS17-MW03			W-4			SS17-MW05			SS17-MW06			SS17-MW07			SS17-MW08			SS17-MW09			SS17-MW10			SS17-MW11		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	21106150808			21106150805			21106161701			21106150809			21106140513			21106140511			21106140501			21106140504			21106140509			21106140510			21106161705			21106150802			21106150801		
Date Sampled:			6/14/2011			6/13/2011			6/14/2011			6/14/2011			6/13/2011			6/12/2011			6/12/2011			6/13/2011			6/12/2011			6/12/2011			6/14/2011			6/13/2011			6/13/2011		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,1,2-Trichloroethane	10	5	0.179	U		0.179	U		0.179	U		0.179	U		3.58	U		0.179	U		3.58	U		0.358	U		**8.12**		J	17.9	U		0.179	U		0.179	U		0.179	U	
1,2,4-Trimethylbenzene	NV	NV	0.08	U		0.08	U		0.08	U		0.08	U		90.4	J		0.08	U		467			338			0.08	U		1090			0.08	U		0.08	U		0.08	U	
1,2-Dichloroethane	10	5	0.121	U		0.121	U		**32.7**			0.121	U		2.42	U		0.121	U		2.42	U		0.242	U		0.121	U		12.1	U		0.121	U		0.121	U		**20.1**		
1,3,5-Trimethylbenzene	NV	NV	0.053	U		0.053	U		0.053	U		0.053	U		23.3	J		0.053	U		108			0.105	U		0.053	U		342	J		0.053	U		0.053	U		0.053	U	
2-Butanone	NV	NV	0.235	U		0.235	U		0.235	U		0.235	U		4.7	U		0.235	U		4.7	U		0.47	U		50.6		J	23.5	U		0.235	U		0.235	U		0.235	U	
Benzene	10	5	0.049	U		0.049	U		0.049	U		0.049	U		**2200**			0.049	U		0.98	U		**25.2**			0.049	U		4.9	U		0.049	U		0.049	U		0.049	U	
Ethylbenzene	750	700	2.82	J		0.18	U		0.18	U		0.18	U		682			0.18	U		**3330**			375			0.18	U		**6290**			0.18	U		0.18	U		0.18	U	
Isopropylbenzene (Cumene)	NV	NV	2.19	J	J	0.058	U		11		J	0.058	U		1.17	U		0.058	U		95.7	J		19.4		J	0.058	U		128	J		0.058	U		0.058	U		0.058	U	
Naphthalene	30	NV	0.175	U		0.175	U		0.175	U		0.175	U		**37.6**	J		0.175	U		**475**			23.4			0.175	U		**470**	J		2.49	J		0.175	U		0.175	U	
Toluene	750	1000	0.078	U		0.078	U		0.078	U		0.078	U		58.5	J	J	0.078	U		11.9		J	0.155	U		0.078	U		290	J		0.078	U		0.078	U		0.078	U	
m,p-Xylene	620	10,000	0.099	U		0.099	U		0.099	U		0.099	U		257			0.099	U		**1050**			94.4			0.099	U		**4980**			0.099	U		0.099	U		0.099	U	
n-Propylbenzene	NV	NV	0.069	U		0.069	U		0.88	J		0.069	U		65.5	J		0.069	U		252			84.8			0.069	U		393	J		0.069	U		0.069	U		0.069	U	
o-Xylene	620	10,000	0.077	U		0.077	U		0.077	U		0.077	U		1.55	U		0.077	U		1.55	U		0.155	U		0.077	U		**869**			0.077	U		0.077	U		0.077	U	
sec-Butylbenzene	NV	NV	2.38	J		0.088	U		2.14	J		0.088	U		1.76	U		0.088	U		1.76	U		0.176	U		19.5		J	8.81	U		0.088	U		0.088	U		0.088	U	
tert-Butyl methyl ether (MTBE)	NV	NV	0.084	U		0.084	U		46.1			0.084	U		1.68	U		0.084	U		1.68	U		17.1			0.084	U		8.39	U		0.084	U		3.45	J		121		
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
2,4-Dimethylphenol	NV	NV	0.708	U		0.715	U		0.701	U		0.715	U		0.715	U		0.731	U		0.708	U		0.731	U		0.708	U		0.731	U		0.723	U		0.731	U		0.715	U	
2-Methylnaphthalene	NV	NV	0.26	U		0.263	U		0.258	U		0.263	U		0.494	J		0.268	U		54.6			0.953	J		0.26	U		28.1			0.266	U		0.268	U		0.263	U	
Acenaphthene	NV	NV	0.273	U		0.276	U		0.639	J		0.276	U		2.04	J		0.282	U		2	J		0.282	U		0.273	U		0.282	U		0.279	U		0.282	U		0.276	U	
Benzo(a)pyrene	0.7	0.2	0.128	U		0.129	U		0.126	U		**0.354**	J		0.129	U		0.132	U		0.128	U		0.132	U		0.128	U		0.132	U		0.13	U		0.132	U		0.129	U	
Benzo(b)fluoranthene	NV	NV	0.221	U		0.224	U		0.219	U		0.358	J		0.224	U		0.228	U		0.221	U		0.228	U		0.221	U		0.228	U		0.226	U		0.228	U		0.224	U	
Benzo(g,h,i)perylene	NV	NV	0.219	U		0.222	U		0.217	U		0.382	J		0.222	U		0.226	U		0.219	U		0.226	U		0.219	U		0.226	U		0.224	U		0.226	U		0.222	U	
Benzo(k)fluoranthene	NV	NV	0.241	U		0.243	U		0.238	U		0.319	J		0.243	U		0.248	U		0.241	U		0.248	U		0.241	U		0.248	U		0.246	U		0.248	U		0.243	U	
bis(2-Ethylhexyl)phthalate	NV	NV	1.31	JB	J	0.197	U		0.193	U		2.11	JB	J	0.197	U		0.201	U		0.195	U		0.201	U		0.195	U		0.201	U		0.199	U		0.201	U		0.197	U	
Di-n-butyl phthalate	NV	NV	0.193	U		0.195	U		0.191	U		0.296	J		0.195	U		0.199	U		0.193	U		0.199	U		0.193	U		0.199	U		0.197	U		0.199	U		0.195	U	
Di-n-octyl phthalate	NV	NV	0.533	J		0.172	U		0.169	U		1.29	J		0.172	U		0.176	U		0.17	U		0.176	U		0.17	U		0.176	U		0.174	U		0.176	U		0.172	U	
Dibenzo(a,h)anthracene	NV	NV	0.221	U		0.224	U		0.219	U		0.251	J		0.224	U		0.228	U		0.221	U		0.228	U		0.221	U		0.228	U		0.226	U		0.228	U		0.224	U	
Dibenzofuran	NV	NV	0.232	U		0.234	U		0.474	J		0.234	U		0.485	J		0.239	U		1.55	J		0.239	U		0.232	U		0.239	U		0.236	U		0.239	U		0.234	U	
Diethyl phthalate	NV	NV	0.309	U		0.312	U		0.306	U		0.312	U		0.312	U		0.319	U		0.309	U		0.319	U		0.309	U		0.319	U		0.316	U		0.319	U		0.312	U	
Fluoranthene	NV	NV	0.272	U		0.275	U		0.27	U		0.275	U		0.518	J		0.281	U		0.272	U		0.281	U		0.272	U		0.281	U		0.278	U		0.281	U		0.275	U	
Fluorene	NV	NV	0.294	U		0.297	U		0.291	U		0.297	U		0.297	U		0.303	U		2.69	J		0.303	U		0.294	U		0.303	U		0.3	U		0.303	U		0.297	U	
Indeno(1,2,3-cd)pyrene	NV	NV	0.16	U		0.162	U		0.159	U		0.309	J		0.162	U		0.165	U		0.16	U		0.165	U		0.16	U		0.165	U		0.164	U		0.165	U		0.162	U	
Naphthalene	30	NV	0.299	U		0.302	U		0.296	U		0.302	U		5.16	J		0.308	U		**202**			9.98	J		0.299	U		**223**			0.305	U		0.308	U		0.302	U	
Phenanthrene	NV	NV	0.31	U		0.313	U		0.307	U		0.313	U		0.313	U		0.32	U		0.753	J		0.32	U		0.372	J	J	0.32	U		0.317	U		0.32	U		0.313	U	
Phenol	5	NV	0.153	U		0.155	U		0.152	U		0.155	U		**11.1**			0.158	U		0.153	U		0.463	J		0.153	U		0.158	U		0.156	U		0.158	U		0.155	U	
m,p-Cresol	NV	NV	0.359	U		0.363	U		0.356	U		0.363	U		0.363	U		0.371	U		0.359	U		0.371	U		0.359	U		0.371	U		0.367	U		0.371	U		0.363	U	
o-Cresol	NV	NV	0.336	U		0.339	U		0.332	U		0.339	U		0.339	U		0.346	U		0.336	U		0.346	U		0.336	U		0.346	U		0.343	U		0.346	U		0.339	U	
Total Petroleum Hydrocarbons (SW846 8015B)	mg/L	mg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Gasoline Range Organics (C6-C10)	30.4 [4]	NV	563			13	U		607			13	U		10200			13	U		18000			2790			1690		J	**49200**			25	J		76.8	J		414		
Diesel Range Organics (C10-C22)	30.4 [4]	NV	523			49.1	U		327			1030			1810			353			3560			3710			102	J	J	4210			89.7	J		179			508		
Oil Range Organics (>C22-C36)	30.4 [4]	NV	111	J		50.8	U		151			47.1	U		185			182			205	J		461	J		127	J	J	231	U		74.8	J		113	J		173		
TAL Metals Analysis (SW846 6010B Dissolved)	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5,000	50 [5]	**0.095**	B		**0.18**	B		**0.085**	B		**0.082**	B		0.044	U		0.044	U		**0.059**	B		0.044	U		0.044	U		0.044	U		0.044	U		0.044	U		**0.055**	B	
Antimony	NV	6	0.004	U		**0.007**	B		0.004	U		0.004	U		0.004	U		0.004	B		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U	
Arsenic	100	10	**0.081**			0.0025	U		0.0025	U		0.0044	B		0.0025	U		0.0025	U		0.0066	B		**0.034**			0.0025	U		0.0047	B		0.0072	B		**0.02**			0.0089	B	
Barium	1,000	2,000	0.01			0.025			0.011			0.02			0.031			0.0084	B	J	0.03			0.016			0.027		J	0.035			0.019			0.02			0.024		
Cadmium	10	5	0.0021	B	J	0.0008	B	J	0.0021	B		0.0014	B	J	0.0015	B	J	0.00064	B	J	0.0017	B	J	0.0019	B	J	0.00099	B	J	0.00097	B	J	0.00094	B		0.0014	B	J	0.0016	B	J
Calcium	NV	NV	557			548			628			461			605			513			637			511			552		J	619			433			568			508		
Chromium	50	100	0.002	B		0.0018	B		0.00064	B		0.0027	B		0.0017	B		0.0014	B		0.0018	B		0.0012	B		0.00095	B	J	0.0006	B		0.0024	B		0.0025	B		0.0013	B	
Cobalt	50	NV	0.0045	B		0.00057	B		0.011			0.00046	B		0.001	B		0.0004	U		0.0004	U		0.0039	B		0.0014	B	J	0.0004	U		0.00097	B		0.0082	B		0.0051	B	
Copper	1,000	1,300	0.015			0.017			0.013			0.019			0.012			0.012			0.011			0.011			0.0088	B	J	0.0046	B		0.017			0.02			0.014		
Iron	1,000	300 [5]	**0.43**			0.038	U		**3.78**			0.038	U		**1.31**			0.038	U		0.049	B		**5.94**			0.22		J	0.061	B		0.038	U		**0.51**			**1.16**		
Lead	50	15	0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0094	B		0.0014	U		0.0019	B	J	0.0029	B		0.0014	U		0.0014	U		0.0014	U	
Magnesium	NV	NV	180			95.1			454			226			131			74.2			202			388			59.8		J	24.8			313			338			364		
Manganese	200	50 [5]	**0.93**			**0.41**			**5.37**			**0.059**			**1.14**			**0.055**			**0.43**			**2.56**			**0.84**		J	**0.37**			**0.26**			**2.34**			**3.26**		
Nickel	200	NV	0.0052	B		0.0017	B		0.0097	B		0.00096	U		0.0017	B		0.00096	U		0.00096	U		0.005	B		0.00096	U		0.00096	U		0.0011	B		0.0083	B		0.0023	B	
Potassium	NV	NV	5.24			8.03			14.3			14.8			5.5			8.66			15.4			8.87			8.03		J	5.28			10.1			14.1			11.9		
Silver	50	100 [5]	0.00084	B		0.00068	B		0.0006	U		0.00084	B		0.00074	B		0.0011	B		0.0006	U		0.0006	U		0.00063	B	J	0.00098	B		0.0006	U		0.0011	B		0.001	B	
Sodium	NV	NV	61.4			155			1570			565			185			18.2			160			1180			50.5		J	43.6			1160			1820			1260		
Vanadium	NV	NV	0.0032	B		0.029			0.00082	U		0.076			0.0082	B		0.045			0.00082	U		0.00082	U		0.014	B	J	0.009	B		0.016	B	J	0.013	B		0.00082	U	
Zinc	10,000	5,000 [5]	0.0027	U		0.0027	U		0.019	B		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U	
Mercury	2	2	0.00021			0.00024			0.00025			0.00023			0.00032			0.00038			0.00037			0.00024			0.00032		J	0.0003			0.00031			0.00022			0.00025		
General Chemistry & MNA Parameters	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
COD (HACH 8000)	NV	NV	8.8			1.2	U		22.1			9.9			44.9			10.4			158			69			6.4		J	103			1.2	U		15.2			28.2		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [5]	**3370**			**3040**			**8210**			**4950**			**3690**			**2560**			**3540**			**6770**			**2600**		J	**2530**			**7340**			**8570**			**7080**		
Ferrous Iron (SM 3500 Fe-D)	NV	NV	0.423			0.006	U		3.12		J	0.013	B		3.83		J	0.006	U	UJ	0.228			4.75			0.301		J	0.195		J	0.006	U		0.273		J	0.7		J
Ammonia (SM 4500 NH3 BF)	NV	NV	0.2			0.07	B		0.51			0.21			0.37			0.11			0.84			1.1			0.15		J	0.11			0.2			0.23			0.75		
Sulfide (SM 4500S D)	NV	NV	0.004	U		0.004	U		0.004	U		0.004	U		8.19			0.004	U		68.2			0.004	U		1.19		J	67.5			0.018	U		0.004	U		0.004	U	
BOD (SM 5210B)	NV	NV	4	U		4	U		4	U	UJ	4	U		9		J	4	U	UJ	48		J	4	U		4	U	UJ	43		J	4	U		4	U	UJ	4	U	UJ
Total Kjeldahl Nitrogen (SM 4500 NH3B)	NV	NV	0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.59	B	
Ferric Iron (SW846 6010B)	NV	NV	0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U	
Iron (SW846 6010B)	NV	NV	0.25			0.038	U		0.091	B		0.038	U		1.84			0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.042	B		0.038	U	
Nitrate (SW846 9056/USEPA 300.0)	10	10	0.39	U		0.8	B		0.39	U	UJ	1.96	B		0.39	U	UJ	0.39	U	UJ	0.39	U	UJ	0.39	U		0.791	B	J	0.39	U	UJ	1.76	B		0.9	B	J	0.39	U	UJ
Sulfate (SW846 9056/USEPA 300.0)	600	250 [5]	**2090**			**1950**			**3290**			**3250**			**1940**			**1840**			**2190**			**3960**			**1750**		J	**1500**			**4190**			**3840**			**3990**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
NMED = New Mexico Environmental Department
MCL = Maximum Contaminant Level
TAL = Total Analyte List
MNA = Monitored Natural Attenuation
COD = Chemical Oxygen Demand
BOD = Biological Oxygen Demand
RDL = Reporting Detection Limit
MDL = Method Detection Limit
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Client Sample Nomenclature:
SS17 = Spill Site 17 (Former BX Gas Station)
MW = Monitoring Well groundwater sample
A = denotes a field duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] NMED TPH Screening Guidelines for Diesel #2/crankcase oil, Concentration in groundwater, Table 2b (October, 2006)
[5] USEPA Secondary Drinking Water Standard
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 2b

Qualifiers:
U = Not detected
J = Indicates an estimated value
B = (ORGANICS) Indicates the analyte was detected in the associated method blank
B = (INORGANICS) Indicates the result is between the RDL and MDL

Table 2-8
Groundwater Anaytical Results (June 2011)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		SS17-MW12			SS17-MW12-A			SS17-MW13			SS17-MW14			SS17-MW14-A			SS17-MW15			SS17-MW16			SS17-MW17			SS17-MW17-A			SS17-MW18			SS17-MW19			SS17-MW20		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	21106140502			21106140503			21106150803			21106161702			21106161703			21106140512			21106150804			21106161710			21106161711			21106161708			21106161709			21106161704		
Date Sampled:			6/12/2011			6/12/2011			6/13/2011			6/14/2011			6/14/2011			6/12/2011			6/13/2011			6/15/2011			6/15/2011			6/14/2011			6/15/2011			6/14/2011		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
1,1,2-Trichloroethane	10	5	35.8	U		35.8	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U		0.179	U	
1,2,4-Trimethylbenzene	NV	NV	1040			1260			0.08	U		0.08	U		0.08	U		0.08	U		0.08	U		0.08	U		0.08	U		0.08	U		0.08	U		0.08	U	
1,2-Dichloroethane	10	5	24.2	U		24.2	U		3.76	J		0.121	U		0.121	U		0.121	U		0.121	U		2.76	J		2.85	J		0.121	U		0.121	U		0.121	U	
1,3,5-Trimethylbenzene	NV	NV	343	J		410	J		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U		0.053	U	
2-Butanone	NV	NV	47	U		47	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U		0.235	U	
Benzene	10	5	**20200**			**25300**			0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U		0.049	U	
Ethylbenzene	750	700	**2620**			**3120**			0.18	U		0.18	U		0.18	U		0.18	U		0.18	U		0.18	U		0.18	U		0.18	U		0.18	U		0.18	U	
Isopropylbenzene (Cumene)	NV	NV	69.5	J		87.5	J		0.058	U		1.81	J		1.63	J		0.058	U		0.058	U		0.058	U		0.058	U		0.058	U		0.058	U		0.058	U	
Naphthalene	30	NV	**604**	J		**540**	J		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U		0.175	U	
Toluene	750	1000	**18600**			**23100**			0.078	U		0.078	U		0.078	U		0.078	U		0.078	U		0.078	U		0.078	U		0.078	U		0.078	U		0.078	U	
m,p-Xylene	620	10,000	**5810**			**7390**			0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U		0.099	U	
n-Propylbenzene	NV	NV	221	J		246	J		0.069	U		1.87	J	J	0.999	J	J	0.069	U		0.069	U		0.069	U		0.069	U		0.069	U		0.069	U		0.069	U	
o-Xylene	620	10,000	**2200**			**2740**			0.077	U		0.077	U		0.077	U		0.077	U		0.077	U		0.077	U		0.077	U		0.077	U		0.077	U		0.077	U	
sec-Butylbenzene	NV	NV	17.6	U		17.6	U		0.088	U		2.66	J		2.83	J		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U		0.088	U	
tert-Butyl methyl ether (MTBE)	NV	NV	16.8	U		16.8	U		4.19	J		0.084	U		0.084	U		0.084	U		0.084	U		34.3			31.9			0.084	U		0.084	U		0.084	U	
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
2,4-Dimethylphenol	NV	NV	4.66	J		4.05	J		0.701	U		0.763	U		0.723	U		0.715	U		0.708	U		0.708	U		0.715	U		0.708	U		0.708	U		0.701	U	
2-Methylnaphthalene	NV	NV	37.3			34.1			0.258	U		0.28	U		0.266	U		0.263	U		0.26	U		0.26	U		0.263	U		0.26	U		0.26	U		0.258	U	
Acenaphthene	NV	NV	0.279	U		0.279	U		0.271	U		0.295	U		0.279	U		0.276	U		0.273	U		0.273	U		0.276	U		0.273	U		0.273	U		0.271	U	
Benzo(a)pyrene	0.7	0.2	0.13	U		0.13	U		0.126	U		0.137	U		0.13	U		0.129	U		0.128	U		**0.24**	J		0.129	U		0.128	U		0.128	U		0.126	U	
Benzo(b)fluoranthene	NV	NV	0.226	U		0.226	U		0.219	U		0.238	U		0.226	U		0.224	U		0.221	U		0.221	U		0.224	U		0.221	U		0.221	U		0.219	U	
Benzo(g,h,i)perylene	NV	NV	0.224	U		0.224	U		0.217	U		0.236	U		0.224	U		0.222	U		0.219	U		0.502	J		0.222	U		0.219	U		0.219	U		0.217	U	
Benzo(k)fluoranthene	NV	NV	0.246	U		0.246	U		0.238	U		0.259	U		0.246	U		0.243	U		0.241	U		0.241	U		0.243	U		0.241	U		0.241	U		0.238	U	
bis(2-Ethylhexyl)phthalate	NV	NV	0.855	J		0.199	U		0.271	JB	J	0.21	U		0.199	U		0.197	U		0.195	U		0.195	U		0.859	J		0.195	U		0.195	U		0.193	U	
Di-n-butyl phthalate	NV	NV	0.197	U		0.197	U		0.191	U		0.208	U		0.197	U		0.195	U		0.193	U		0.193	U		0.195	U		0.193	U		0.193	U		0.191	U	
Di-n-octyl phthalate	NV	NV	0.174	U		0.174	U		0.169	U		0.184	U		10.7			0.172	U		0.17	U		0.17	U		0.172	U		0.17	U		0.17	U		0.169	U	
Dibenzo(a,h)anthracene	NV	NV	0.226	U		0.226	U		0.219	U		0.238	U		0.226	U		0.224	U		0.221	U		0.517	J		0.224	U		0.221	U		0.221	U		0.219	U	
Dibenzofuran	NV	NV	0.236	U		0.236	U		0.229	U		0.249	U		0.236	U		0.234	U		0.232	U		0.232	U		0.234	U		0.232	U		0.232	U		0.229	U	
Diethyl phthalate	NV	NV	0.316	U		0.316	U		0.306	U		0.333	U		0.316	U		0.312	U		0.309	U		0.309	U		0.312	U		0.309	U		0.627	J		0.306	U	
Fluoranthene	NV	NV	0.278	U		0.278	U		0.27	U		0.293	U		0.278	U		0.275	U		0.272	U		0.272	U		0.275	U		0.272	U		0.272	U		0.27	U	
Fluorene	NV	NV	0.3	U		0.3	U		0.291	U		0.316	U		0.3	U		0.297	U		0.294	U		0.294	U		0.297	U		0.294	U		0.294	U		0.291	U	
Indeno(1,2,3-cd)pyrene	NV	NV	0.164	U		0.164	U		0.159	U		0.173	U		0.164	U		0.162	U		0.16	U		0.482	J		0.162	U		0.16	U		0.16	U		0.159	U	
Naphthalene	30	NV	**140**			**148**			0.296	U		0.322	U		0.305	U		0.302	U		0.299	U		0.299	U		0.302	U		0.299	U		0.299	U		0.296	U	
Phenanthrene	NV	NV	0.317	U		0.317	U		0.307	U		0.334	U		0.317	U		0.313	U		0.31	U		0.31	U		0.313	U		0.31	U		0.31	U		0.307	U	
Phenol	5	NV	0.156	U		0.156	U		0.152	U		0.165	U		0.156	U		0.155	U		0.153	U		0.153	U		0.234	J		0.153	U		0.153	U		0.152	U	
m,p-Cresol	NV	NV	2.74	J		2.44	J		0.356	U		0.387	U		0.367	U		0.363	U		0.359	U		0.359	U		0.363	U		0.359	U		0.359	U		0.356	U	
o-Cresol	NV	NV	2.51	J		2.48	J		0.332	U		0.362	U		0.343	U		0.339	U		0.336	U		0.336	U		0.339	U		0.336	U		0.336	U		0.332	U	
Total Petroleum Hydrocarbons (SW846 8015B)	mg/L	mg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Gasoline Range Organics (C6-C10)	30.4 [4]	NV	**119000**			**126000**			13	U		1280		J	1240		J	13	U		13	U		44	J		43.9	J		52.6	J		13	U		14.6	J	
Diesel Range Organics (C10-C22)	30.4 [4]	NV	4520			5590			71.4	J		409			376			45.1	U		45.6	U		80.2	J		72.3	J		109	J		62.6	J		79.2	J	
Oil Range Organics (>C22-C36)	30.4 [4]	NV	233	U		233	U		85.1	J		93.2	J		73.8	J		60	J		47.1	U		59.2	J		51	J		85.8	J		46.6	U		46.2	U	
TAL Metals Analysis (SW846 6010B Dissolved)	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Aluminum	5,000	50 [5]	0.044	U		0.044	U		0.044	U		0.044	U		0.044	U		0.044	U		0.044	U		**0.17**	B	J	**0.058**	B	J	**0.053**	B		0.044	U		0.044	U	
Antimony	NV	6	0.004	U		0.0041	B		0.0045	B		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.0047	B		0.004	U		0.004	U		0.004	U	
Arsenic	100	10	**0.019**			**0.018**			**0.01**			0.0025	U		0.0025	U		0.0025	U		0.0025	U		**0.011**		J	0.0074	B	J	0.0033	B		0.0025	U		0.0025	U	
Barium	1,000	2,000	0.027			0.029			0.017			0.031			0.03			0.021			0.021			0.02			0.02			0.019			0.027			0.016		
Cadmium	10	5	0.002	B	J	0.002	B	J	0.00097	B	J	0.002	B		0.002	B		0.0014	B	J	0.0014	B	J	0.0019	B		0.0021	B		0.002	B		0.0018	B		0.0015	B	
Calcium	NV	NV	582			560			448			552			542			510			602			569			565			551			596			487		
Chromium	50	100	0.0021	B		0.0023	B		0.0025	B		0.0018	B		0.0019	B		0.0029	B		0.0014	B		0.0016	B		0.0018	B		0.0013	B		0.0021	B		0.0021	B	
Cobalt	50	NV	0.0004	U		0.0004	U		0.001	B		0.0012	B		0.0012	B		0.0004	U		0.0004	U		0.0031	B		0.0025	B		0.0041	B		0.0053	B		0.0013	B	
Copper	1,000	1,300	0.014			0.014			0.015			0.015			0.016			0.013			0.026			0.014			0.014			0.013			0.015			0.018		
Iron	1,000	300 [5]	0.12			0.12			0.038	U		0.26			0.28			0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.22			0.038	U	
Lead	50	15	**0.017**			**0.015**	B		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U		0.0014	U	
Magnesium	NV	NV	249			241			578			157			153			268			72.8			295			290			328			171			448		
Manganese	200	50 [5]	**1.74**			**1.67**			**0.63**			**0.29**			**0.28**			0.0012	U		0.04			**1.34**			**1.35**			**2.78**			**1.09**			**0.46**		
Nickel	200	NV	0.00096	U		0.0019	B		0.00096	U		0.00096	U		0.00096	U		0.00096	U		0.00096	U		0.015	B		0.015	B		0.0071	B		0.014	B		0.0034	B	
Potassium	NV	NV	4.88			4.63			18.2			6.38			6.5			8.26			8.89			23.5			23.6			11.3			7.13			23.3		
Silver	50	100 [5]	0.0006	U		0.0006	U		0.00097	B		0.00093	B	J	0.001	B	J	0.00089	B		0.0016	B		0.0006	U		0.0006	U		0.0006	U		0.00088	B	J	0.00093	B	J
Sodium	NV	NV	216			214			3370			200			205			346			87.9			538			524			910			198			1690		
Vanadium	NV	NV	0.00082	U		0.00082	U		0.024			0.0065	B	J	0.0077	B	J	0.011	B		0.041			0.028			0.029			0.0077	B	J	0.01	B	J	0.036		
Zinc	10,000	5,000 [5]	0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0027	U		0.0031	B	
Mercury	2	2	0.00034			0.00031			0.00013	B		0.0004			0.00033			0.00035			0.00035			0.00039			0.00036			0.0003			0.00034			0.0003		
General Chemistry & MNA Parameters	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
COD (HACH 8000)	NV	NV	291			290			11.6			4.7	B		6.2			6.6			3.2	B		11.9			14.5			10			2.9	B		7.6		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [5]	**3900**			**3990**			**13500**			**3690**			**3610**			**4550**			**2970**			**5300**			**5290**			**5950**			**3450**			**8680**		
Ferrous Iron (SM 3500 Fe-D)	NV	NV	0.497			0.411			0.021	B		0.235		J	0.21		J	0.006	U	UJ	0.008	B		0.006	U		0.006	U		0.006	U		0.138			0.007	B	
Ammonia (SM 4500 NH3 BF)	NV	NV	0.24			0.28			0.17			0.64			0.53			0.23			0.18			2.4			2.5			0.26			1.7			0.23		
Sulfide (SM 4500S D)	NV	NV	111			104			0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U		0.004	U	
BOD (SM 5210B)	NV	NV	85			61			4	U	UJ	4	U	UJ	4	U	UJ	4	U	UJ	4	U	UJ	4	U		4	U		4	U		4	U		4	U	
Total Kjeldahl Nitrogen (SM 4500 NH3B)	NV	NV	0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		3.6			0.24	U	
Ferric Iron (SW846 6010B)	NV	NV	0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U	
Iron (SW846 6010B)	NV	NV	0.06	B		0.051	B		0.038	U		0.038	U		0.11			0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U		0.038	U	
Nitrate (SW846 9056/USEPA 300.0)	10	10	0.39	U		0.39	U		1.7	B	J	0.39	U	UJ	0.39	U	UJ	**15.1**		J	1.45			2.43	B		2.53			0.39	B		0.39	U		5.82		
Sulfate (SW846 9056/USEPA 300.0)	600	250 [5]	**2460**			**2450**			**7050**			**2170**			**2180**			**3020**			**1630**			**2680**			**2650**			**3100**			**2140**			**3920**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
NMED = New Mexico Environmental Department
MCL = Maximum Contaminant Level
TAL = Total Analyte List
MNA = Monitored Natural Attenuation
COD = Chemical Oxygen Demand
BOD = Biological Oxygen Demand
RDL = Reporting Detection Limit
MDL = Method Detection Limit
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Client Sample Nomenclature:
SS17 = Spill Site 17 (Former BX Gas Station)
MW = Monitoring Well groundwater sample
A = denotes a field duplicate sample

[1] Standards for Groundwater, if 10,000 mg/l TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] NMED TPH Screening Guidelines for Diesel #2/crankcase oil, Concentration in groundwater, Table 2b (October, 2006)
[5] USEPA Secondary Drinking Water Standard
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 2b

Qualifiers:
U = Not detected
J = Indicates an estimated value
B = (ORGANICS) Indicates the analyte was detected in the associated method blank
B = (INORGANICS) Indicates the result is between the RDL and MDL

Table 2-9
Excavation Sidewall Soil Results (October 2012)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	SS17-SW118		SS17-SW119		SS17-SW120		SS17-SW121		SS17-SW122		SS17-SW123		SS17-SW124		SS17-SW125		SS17-SW126		SS17-SW127	
Lab Sample Identification:	**NMED**	F97882-1		F97882-2		F97882-3		F97982-1		F97982-2		F97982-3		F97982-4		F98017-1		F98017-2		F98048-1	
Date Sampled:	**Residential[1]**	10/11/2012		10/11/2012		10/11/2012		10/15/2012		10/15/2012		10/15/2012		10/15/2012		10/16/2012		10/16/2012		10/17/2012	
Sample Depth:		9		9		9		10		10		10		10		10		10		10	
Analyte		**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**
Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Benzene	15.4	130	U	130	U	83	U	711		391	J	1030	J	567	J	1290	J	3560		1560	
n-Butylbenzene	3,900 [3]	3860		13200		5120		22400		14600		6290		2480		14700		19300		208	J
sec-Butylbenzene	NV [4]	1820		6410		2770		6690		5190		2210	J	988		6260		7500		126	J
Ethylbenzene	68.4	29400		**171000**		47000		**253000**		**179000**		39900		17900		**85400**		**75200**		2680	
Hexane	938	9430		35500		1530		71200		83500		7290		1020		1400	U	1300	U	160	U
Isopropylbenzene	2,430	3160		14400		5590		16900		11600		5390		2200		11400		21200		246	J
p-Isopropyltoluene	NV [4]	576	J	1970		776		2880		1740		1100	U	348	J	2120	J	3310		91	U
Naphthalene	43	7790		**48000**		10400		**47500**		36700		10500		5790		26000		9810		726	
n-Propylbenzene	3,400 [3]	13000		62300		23100		81400		60900		25100		10700		45600		86800		967	
1,2,4-Trimethylbenzene	62 [3]	45600		**250000**		50900		**385000**		**248000**		57500		29600		**191000**		**281000**		3880	
1,3,5-Trimethylbenzene	780 [3]	14900		87200		15200		123000		77500		17100		9740		51800		60600		1160	
Toluene	5,270	22500		143000		850		63800		2830		810	U	160	U	620	U	560	U	70	U
m,p-Xylene	NV [4]	65800		394000		61500		721000		378000		84500		18200		173000		21200		1850	
o-Xylene	898	21400		117000		1720		71100		2080		810	U	160	U	620	U	560	U	70	U
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Phenol	18,300	36	U	68	U	140	U	140	U	140	U	37	U	36	U	68	U	35	U	52.5	J
Acenaphthene	3,440	26	U	49	U	100	U	100	U	100	U	27	U	26	U	49	U	52.3	J	27	U
Fluoranthene	2,290	22	U	41	U	86	U	88	U	86	U	23	U	22	U	41	U	38.4	J	22	U
Fluorene	2,290	35.5	J	48.6	J	96	U	97	U	95	U	25	U	25	U	62.2	J	49.1	J	25	U
1-Methylnaphthalene	160 [3]	2910		4100		1510		4650		5260		2130		789		5630		3400		179	J
2-Methylnaphthalene	230 [3]	5320		7600		2420		9410		9590		2460		767		6980		2320		26	U
Naphthalene	43	3770		7400		2210		10200		9670		2080		471		3890		1240		157	J
Phenanthrene	1,830	47.1	J	68.2	J	86	U	128	J	102	J	30.1	J	22	U	99.4	J	86.8	J	22	U
Pyrene	1,720	22	U	41	U	86	U	88	U	86	U	23	U	22	U	41	U	36.3	J	22	U
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**	
Gasoline Range Organics (C6-C10)	1,000 [5]	**1150**		**4230**		**1780**		**5970**		**3460**		643		**1520**		**2760**		**4480**		58.7	
Diesel Range Organics (C10-C22)	1,000 [5]	62.6		102		57.5		602		107		274		17.2		497		294		19.7	
Oil Range Organics (>C22-C36)	1,000 [5]	8.77	J	17	U	6.98	J	45	U	17	U	22	U	6.06	J	41	U	43	U	4.4	U
General Chemistry	**%**	**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**	
Solids, Percent	NV	76.2		79.6		76.0		74.8		77.0		74.0		75.1		80.1		78.4		74.5	

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value
% = percent

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[3] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
[4] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2012)
[5] Table 6-3, TPH Screening Guidelines for Diesel #2/Crankcase Oil, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Diesel #2/Crankcase Oil, Residential Direct Exposure, Table 6-3)

Table 2-9
Excavation Sidewall Soil Results (October 2012)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	SS17-SW128		SS17-SW129		SS17-SW130		SS17-SW131		SS17-SW132		SS17-SW133		SS17-SW134	
Lab Sample Identification:	**NMED**	F98048-2		F98048-3		F98151-1		F98151-2		F98279-1		F98279-2		F98325-1	
Date Sampled:	**Residential[1]**	10/17/2012		10/17/2012		10/19/2012		10/19/2012		10/24/2012		10/24/2012		10/25/2012	
Sample Depth:		10		10		10		10		10		10		10	
Analyte		**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**
Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Benzene	15.4	574	J	1310	J	0.98	U	1.1	U	1.1	U	1.1	U	1.1	U
n-Butylbenzene	3,900 [3]	3590		7500		1.3	U	1.5	U	1.4	U	1.5	U	1.4	U
sec-Butylbenzene	NV [4]	1900		3790		1.2	U	1.4	U	1.3	U	1.4	U	1.3	U
Ethylbenzene	68.4	14800		39000		1.1	U	1.2	U	1.2	U	1.3	U	1.2	U
Hexane	938	710	U	720	U	2.2	U	2.5	U	2.5	U	2.6	U	2.5	U
Isopropylbenzene	2,430	2710		6610		1.3	U	1.5	U	1.5	U	1.5	U	1.5	U
p-Isopropyltoluene	NV [4]	795	J	1630		1.3	U	1.5	U	1.5	U	1.5	U	1.4	U
Naphthalene	43	7980		16700		2.0	U	2.3	U	2.2	U	2.3	U	2.2	U
n-Propylbenzene	3,400 [3]	12000		28900		1.0	U	1.2	U	1.1	U	1.2	U	1.1	U
1,2,4-Trimethylbenzene	62 [3]	49800		**96000**		1.1	U	1.2	U	1.2	U	1.2	U	1.2	U
1,3,5-Trimethylbenzene	780 [3]	18800		43400		1.0	U	1.2	U	1.2	U	1.2	U	1.2	U
Toluene	5,270	310	U	320	U	0.98	U	1.1	U	1.1	U	1.1	U	1.1	U
m,p-Xylene	NV [4]	8940		24100		2.0	U	2.3	U	2.3	U	2.4	U	2.3	U
o-Xylene	898	310	U	320	U	0.98	U	1.1	U	1.1	U	1.1	U	1.1	U
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Phenol	18,300	35	U	38.9	J	34	U	31	U	35	U	34	U	32	U
Acenaphthene	3,440	26	U	26	U	25	U	22	U	25	U	25	U	23	U
Fluoranthene	2,290	22	U	22	U	21	U	19	U	21	U	21	U	19	U
Fluorene	2,290	24	U	24	U	23	U	21	U	23	U	23	U	22	U
1-Methylnaphthalene	160 [3]	1640		1690		28	U	26	U	29	U	28	U	26	U
2-Methylnaphthalene	230 [3]	182	J	128	J	24	U	22	U	25	U	24	U	23	U
Naphthalene	43	1670		1870		21	U	19	U	22	U	21	U	20	U
Phenanthrene	1,830	24.2	J	23.7	J	21	U	19	U	21	U	21	U	19	U
Pyrene	1,720	22	U	22	U	21	U	19	U	21	U	21	U	19	U
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**	
Gasoline Range Organics (C6-C10)	1,000 [5]	586		**1380**		3.7	U	3.3	U	3.6	U	3.7	U	3.5	U
Diesel Range Organics (C10-C22)	1,000 [5]	45.2		91.6		4.1	U	3.8	U	4.2	U	4.2	U	3.8	U
Oil Range Organics (>C22-C36)	1,000 [5]	6.82	J	21	U	4.27	J	3.8	U	4.2	U	4.2	U	3.8	U
General Chemistry	**%**	**%**		**%**		**%**		**%**		**%**		**%**		**%**	
Solids, Percent	NV	76.8		77.9		81.4		87.8		78.6		79.7		86.9	

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value
% = percent

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[3] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
[4] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2012)
[5] Table 6-3, TPH Screening Guidelines for Diesel #2/Crankcase Oil, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Diesel #2/Crankcase Oil, Residential Direct Exposure, Table 6-3)

Table 2-10
Soil Boring Results (November 2012)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	SS17-SB201-7'		SS17-SB202-7'		SS17-SB203-7'		SS17-SB204-6'		SS17-SB205-6'		SS17-SB206-6'		SS17-SB207-7'		SS17-SB207A-7'		SS17-SB208-10'		SS17-SB209-6'		SS17-SB210-7'	
Lab Sample Identification:	**NMED**	F98714-1		F98714-2		F98742-1		F98742-2		F98742-3		F98742-4		F98742-5		F98742-6		F98714-3		F98755-1		F98755-2	
Date Sampled:	**Residential[1]**	11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/7/2012		11/7/2012	
Analyte		**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**
Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Benzene	15.4	65	U	59	U	1280	J	8490		**93400**		**55800**		**167000**		**116000**		**185000**		**149000**		**52200**	
n-Butylbenzene	3,900 [3]	156	J	22000		12100		17800		14800		14000		14400		20700		18300		13900		17700	
sec-Butylbenzene	NV [4]	420		12300		5850		7200		6150		5920		6050		9550		4830		5210	J	6560	
tert-Butylbenzene	NV [4]	77	U	70	U	730	U	1400	U	1500	U	1100	U	1300	U	1500	U	82.4	J	1300	U	1400	U
Carbon disulfide	1,530	130	U	120	U	1200	U	2400	U	2500	U	1900	U	2200	U	2500	U	98	U	2200	U	2400	U
Ethylbenzene	68.4	71	U	**258000**		**153000**		**238000**		**285000**		**254000**		**344000**		**417000**		**451000**		**252000**		**206000**	
Hexane	938	150	U	1760		3660		8590		68500		32700		146000		152000		352000		159000		26200	
Isopropylbenzene	2,430	85	U	36100		19600		22000		19400		18000		22700		28600		30500		16200		18200	
p-Isopropyltoluene	NV [4]	85	U	1340		2410	J	3220	J	2670	J	2470	J	2640	J	3770	J	2050		2060	J	3210	J
Naphthalene	43	130	U	**45100**		**49000**		**50000**		**48500**		41800		**49400**		**67300**		**60500**		41200		**75500**	
n-Propylbenzene	3,400 [3]	110	J	139000		71300		89600		92100		83400		94300		123000		119000		70300		73300	
Styrene	7,280	65	U	59	U	610	U	1200	U	1200	U	930	U	1100	U	1300	U	292		1100	U	1200	U
1,2,4-Trimethylbenzene	62 [3]	70	U	**95200**		**121000**		**365000**		**383000**		**349000**		**409000**		**527000**		**478000**		**298000**		**269000**	
1,3,5-Trimethylbenzene	780 [3]	68	U	32700		87400		124000		136000		120000		136000		172000		148000		97600		81400	
Toluene	5,270	65	U	650		21000		168000		537000		113000		749000		521000		1010000		672000		126000	
m,p-Xylene	NV [4]	130	U	38300		142000		383000		403000		439000		911000		1030000		976000		646000		394000	
o-Xylene	898	65	U	65300		118000		237000		320000		65600		265000		236000		470000		277000		106000	
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
2-Methylphenol (o-cresol)	3,100 [3]	27	U	28	U	28	U	151	J	110	U	100	U	530	U	570	U	260	U	270	U	110	U
3&4-Methylphenol (m,p-cresol)	3,100/6,100 [3]	45	U	46	U	47	U	190	U	180	U	170	U	880	U	940	U	430	U	450	U	180	U
Phenol	18,300	35	U	36	U	37	U	150	U	320	J	130	U	690	U	740	U	687	J	360	U	140	U
Acenaphthene	3,440	26	U	27.5	J	27	U	168	J	123	J	96	U	500	U	540	U	250	U	260	U	119	J
bis(2-Ethylhexyl)phthalate	347	43	U	44	U	45	U	180	U	170	U	160	U	840	U	910	U	410	U	440	U	170	U
Fluorene	2,290	24	U	29.7	J	25	U	181	J	156	J	97.6	J	470	U	500	U	253	J	240	U	132	J
1-Methylnaphthalene	160 [3]	586		2560		1600		17700		11400		7140		26200		20300		20300		11600		14100	
2-Methylnaphthalene	230 [3]	25	U	1950		3180		36200		21000		12700		46800		37300		39400		23100		32100	
Naphthalene	43	22	U	1820		2350		**43300**		28400		14900		**70100**		**55600**		**48400**		29000		33400	
Phenanthrene	1,830	22	U	34.3	J	26.8	J	305	J	266	J	179	J	673	J	491	J	401	J	220	U	188	J
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**	
Gasoline Range Organics (C6-C10)	1,000 [5]	227		**4230**		**2300**		**4040**		**7720**		**5680**		**9360**		**11300**		**9920**		**9140**		**6610**	
Diesel Range Organics (C10-C22)	1,000 [5]	14.9		65.8		182		**1470**		**1730**		755		**2820**		**2290**		795		**1240**		**2190**	
Oil Range Organics (>C22-C36)	1,000 [5]	4.3	U	4.77	J	22	U	220	U	220	U	200	U	430	U	460	U	100	U	210	U	220	U
General Chemistry	**%**	**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**	
Solids, Percent	NV	75.9		75.2		73.8		74.3		76.4		83.0		77.9		74.0		80.2		77.6		76.5	

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value
% = percent

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[3] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
[4] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (May, 2012)
[5] Table 6-3, TPH Screening Guidelines for Diesel #2/Crankcase Oil, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines

Table 2-10
Soil Boring Results (November 2012)
SS-17 Supplemental Accelerated Corrective Measures Work Plan
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	SS17-SB211-8'		SS17-SB212-8'		SS17-SB213-8'		SS17-SB214-8'		SS17-SB215-8'		SS17-SB215A-8'		SS17-SB216-8'		SS17-SB217-8'		SS17-SB218-11'		SS17-SB219-9'		SS17-SB220-10'	
Lab Sample Identification:	**NMED**	F98755-3		F98755-4		F98755-5		F98788-1		F98788-2		F98788-3		F98742-7		F98742-8		F98755-6		F98788-4		F98788-5	
Date Sampled:	**Residential[1]**	11/7/2012		11/7/2012		11/7/2012		11/7/2012		11/7/2012		11/7/2012		11/6/2012		11/6/2012		11/7/2012		11/7/2012		11/7/2012	
Analyte		**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**	**Result [2]**	**Q**
Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
Benzene	15.4	**68300**		**124000**		**29200**		257	J	57	U	62	U	1100	U	120	U	0.87	U	0.88	U	0.87	U
n-Butylbenzene	3,900 [3]	7490		17000		9910		5000		11100		5620		26200		4050		3.4	J	1.1	U	1.1	U
sec-Butylbenzene	NV [4]	3190	J	6960		4310	J	2220		4810		2630		9750		1800		3.6	J	1.1	U	1.0	U
tert-Butylbenzene	NV [4]	1400	U	1300	U	1400	U	68	U	98.4	J	73	U	1400	U	140	U	1.0	U	1.0	U	1.0	U
Carbon disulfide	1,530	2300	U	2200	U	2400	U	167	J	110	U	121	J	2300	U	240	U	2.6	J	3.9	J	1.7	U
Ethylbenzene	68.4	**106000**		**295000**		**125000**		**78800**		**128000**		61900		**378000**		34200		535		0.96	U	0.95	U
Hexane	938	108000		315000		75000		5180		3870		1080		118000		570	J	2.0	U	2.0	U	2.0	U
Isopropylbenzene	2,430	8060		23900		10800		7050		11400		6480		37300		3830		26.5		1.2	U	1.1	U
p-Isopropyltoluene	NV [4]	1500	U	3190	J	1730	J	975		2270		725		4400	J	417	J	1.1	U	1.1	U	1.1	U
Naphthalene	43	21700		**62000**		25000		16400		38400		17000		**107000**		8770		12.1		1.8	U	1.7	U
n-Propylbenzene	3,400 [3]	33400		79700		44000		22200		47800		22300		145000		16100		65.6		0.90	U	0.89	U
Styrene	7,280	1200	U	1100	U	1200	U	57	U	57	U	62	U	1100	U	120	U	0.87	U	0.88	U	0.87	U
1,2,4-Trimethylbenzene	62 [3]	**124000**		**318000**		**162000**		**83800**		**162000**		60000		**479000**		41000		0.94	U	0.95	U	0.94	U
1,3,5-Trimethylbenzene	780 [3]	41600		104000		53500		28400		59000		18600		178000		13300		0.91	U	0.92	U	0.91	U
Toluene	5,270	174000		828000		220000		258	J	115	J	62	U	1340	J	120	U	0.87	U	0.88	U	0.87	U
m,p-Xylene	NV [4]	207000		702000		264000		57800		99300		34600		323000		22200		7.3	J	1.8	U	1.8	U
o-Xylene	898	78300		297000		123000		235	J	576		205	J	1300	J	120	U	0.87	U	0.88	U	0.87	U
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**		**µg/kg**	
2-Methylphenol (o-cresol)	3,100 [3]	110	U	530	U	28	U	28	U	27	U	27	U	110	U	27	U	27	U	26	U	26	U
3&4-Methylphenol (m,p-cresol)	3,100/6,100 [3]	180	U	890	U	148	J	46	U	45	U	46	U	180	U	46	U	45	U	44	U	44	U
Phenol	18,300	163	J	700	U	172	J	36	U	35	U	36	U	140	U	36	U	35	U	35	U	35	U
Acenaphthene	3,440	100	U	510	U	27	U	26	U	26	U	26	U	100	U	26	U	26	U	25	U	25	U
bis(2-Ethylhexyl)phthalate	347	170	U	860	U	45	U	44	U	43	U	44	U	180	U	44	U	43	U	49.1	J	42	U
Fluorene	2,290	96	U	470	U	25	U	25	U	24	U	26.4	J	98	U	24	U	24	U	23	U	23	U
1-Methylnaphthalene	160 [3]	3770		25500		794		40.6	J	96.3	J	2950		8500		944		29	U	29	U	29	U
2-Methylnaphthalene	230 [3]	6200		49500		1080		77.7	J	158	J	4330		9300		272		25	U	25	U	25	U
Naphthalene	43	4510		**60500**		941		64.1	J	147	J	5050		13800		938		22	U	21	U	21	U
Phenanthrene	1,830	86	U	430	U	23	U	22	U	22	U	29.4	J	88	U	22	U	21	U	21	U	21	U
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**		**mg/kg**	
Gasoline Range Organics (C6-C10)	1,000 [5]	**4900**		**10400**		**4390**		**1460**		**2250**		**1420**		**8270**		**1170**		3.89	J	2.7	U	3.0	U
Diesel Range Organics (C10-C22)	1,000 [5]	365		**2030**		43.8		6.19	J	14.1		278		474		20.7		4.3	U	4.2	U	4.3	U
Oil Range Organics (>C22-C36)	1,000 [5]	43	U	210	U	5.62	J	4.4	U	4.69	J	22	U	88	U	4.4	U	4.3	U	4.2	U	8.20	J
General Chemistry	**%**	**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**		**%**	
Solids, Percent	NV	76.2		77.3		74.6		75.5		76.9		75.3		76.0		75.0		76.3		78.9		77.8	

Notes:

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NV = No Value
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[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
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[3] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (May, 2012)
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[5] Table 6-3, TPH Screening Guidelines for Diesel #2/Crankcase Oil, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines

APPENDIX C

SS-17 System Operations and Maintenance Logs

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SS-17 AISEB Operations and Maintenance Log
Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
2/4/2013	Mon	No	N/A	N/A	System installation
2/5/2013	Tue	No	N/A	N/A	System installation
2/6/2013	Wed	No	N/A	N/A	System installation
2/7/2013	Thur	No	N/A	N/A	System installation
2/8/2013	Fri	No	N/A	N/A	System installation
2/9/2013	Sat	No	N/A	N/A	System installation
2/10/2013	Sun	No	N/A	N/A	System installation
2/11/2013	Mon	Running	Yes	No	Monitored air pressure
2/12/2013	Tue	Running	Yes	No	Monitored air pressure
2/13/2013	Wed	Running	Yes	No	Monitored air pressure
2/14/2013	Thur	Running	Yes	No	Monitored air pressure
2/15/2013	Fri	Running	Yes	No	Monitored air pressure
2/16/2013	Sat	Running	No	No	Monitored air pressure
2/17/2013	Sun	Running	No	No	Monitored air pressure
2/18/2013	Mon	Running	Yes	No	Monitored air pressure
2/19/2013	Tue	Running	Yes	No	Monitored air pressure
2/20/2013	Wed	Running	Yes	No	Monitored air pressure
2/21/2013	Thur	Running	Yes	No	Monitored air pressure
2/22/2013	Fri	Running	Yes	No	Monitored air pressure
2/23/2013	Sat	Running	No	No	Monitored air pressure
2/24/2013	Sun	Running	No	No	Monitored air pressure
2/25/2013	Mon	Running	Yes	No	Monitored air pressure
2/26/2013	Tue	Running	Yes	No	Monitored air pressure
2/27/2013	Wed	Running	Yes	No	Monitored air pressure
2/28/2013	Thur	Running	Yes	No	Monitored air pressure
3/1/2013	Fri	Running	Yes	No	Monitored air pressure
3/2/2013	Sat	Running	No	No	Monitored air pressure
3/3/2013	Sun	Running	No	No	Monitored air pressure
3/4/2013	Mon	Running	Yes	No	Monitored air pressure
3/5/2013	Tue	Running	Yes	No	Monitored air pressure
3/6/2013	Wed	Running	Yes	No	Monitored air pressure
3/7/2013	Thur	Running	Yes	No	Monitored air pressure
3/8/2013	Fri	Running	Yes	No	Monitored air pressure
3/9/2013	Sat	Running	No	No	Monitored air pressure
3/10/2013	Sun	Running	No	No	Monitored air pressure
3/11/2013	Mon	Running	Yes	No	Monitored air pressure
3/12/2013	Tue	Running	Yes	No	Monitored air pressure
3/13/2013	Wed	Running	Yes	No	Monitored air pressure
3/14/2013	Thur	Running	Yes	No	Monitored air pressure
3/15/2013	Fri	Running	Yes	No	Monitored air pressure
3/16/2013	Sat	Running	No	No	Monitored air pressure
3/17/2013	Sun	Running	No	No	Monitored air pressure
3/18/2013	Mon	Running	Yes	No	Monitored air pressure
3/19/2013	Tue	Running	Yes	No	Monitored air pressure
3/20/2013	Wed	Running	Yes	No	Monitored air pressure
3/21/2013	Thur	Running	Yes	No	Monitored air pressure
3/22/2013	Fri	Running	Yes	No	Monitored air pressure
3/23/2013	Sat	Running	No	No	Monitored air pressure
3/24/2013	Sun	Running	No	No	Monitored air pressure
3/25/2013	Mon	Running	Yes	No	Monitored air pressure
3/26/2013	Tue	Running	Yes	No	Monitored air pressure
3/27/2013	Wed	Running	Yes	No	Monitored air pressure
3/28/2013	Thur	Running	Yes	No	Monitored air pressure
3/29/2013	Fri	Running	Yes	No	Monitored air pressure
3/30/2013	Sat	Running	No	No	Monitored air pressure

SS-17 AISEB Operations and Maintenance Log
Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
3/31/2013	Sun	Running	No	No	Monitored air pressure
4/1/2013	Mon	Running	Yes	No	Monitored air pressure
4/2/2013	Tue	Running	Yes	No	Monitored air pressure
4/3/2013	Wed	Running	Yes	No	Monitored air pressure
4/4/2013	Thur	Running	Yes	No	Monitored air pressure
4/5/2013	Fri	Running	Yes	No	Monitored air pressure
4/6/2013	Sat	Running	No	No	Monitored air pressure
4/7/2013	Sun	Running	No	No	Monitored air pressure
4/8/2013	Mon	Running	Yes	No	Monitored air pressure
4/9/2013	Tue	Running	Yes	No	Monitored air pressure
4/10/2013	Wed	Running	Yes	No	Monitored air pressure
4/11/2013	Thur	Running	Yes	No	Monitored air pressure
4/12/2001	Fri	Running	Yes	No	Monitored air pressure
4/13/2013	Sat	Running	No	No	Monitored air pressure
4/14/2013	Sun	Running	No	No	Monitored air pressure
4/15/2013	Mon	Running	Yes	No	Monitored air pressure
4/16/2013	Tue	Running	Yes	No	Monitored air pressure
4/17/2013	Wed	Running	Yes	No	Monitored air pressure
4/18/2013	Thur	Running	Yes	No	Monitored air pressure
4/19/2013	Fri	Running	Yes	No	Monitored air pressure
4/20/2013	Sat	Running	No	No	Monitored air pressure
4/21/2013	Sun	Running	No	No	Monitored air pressure
4/22/2013	Mon	Running	Yes	No	Monitored air pressure
4/23/2013	Tue	Running	Yes	No	Monitored air pressure
4/24/2013	Wed	Running	Yes	No	Monitored air pressure
4/25/2013	Thur	Running	Yes	No	Monitored air pressure
4/26/2013	Fri	Running	Yes	No	Monitored air pressure
4/27/2013	Sat	Running	No	No	Monitored air pressure
4/28/2013	Sun	Running	No	No	Monitored air pressure
4/29/2013	Mon	Running	Yes	No	Monitored air pressure
4/30/2013	Tue	Running	Yes	No	Monitored air pressure
5/1/2013	Wed	Running	Yes	No	Monitored air pressure
5/2/2013	Thur	Running	Yes	No	Monitored air pressure
5/3/2013	Fri	Running	Yes	No	Monitored air pressure
5/4/2013	Sat	Running	No	No	Monitored air pressure
5/5/2013	Sun	Running	No	No	Monitored air pressure
5/6/2013	Mon	Shut Down	Yes	Yes	Identified leaking air line for Zone A
5/7/2013	Tue	Shut Down	Yes	Yes	Repaired leaking air line for Zone A
5/8/2013	Wed	Shut Down	Yes	Yes	Repaired leaking air line for Zone A. Restarted system
5/9/2013	Thur	Running	Yes	No	Monitored air pressure
5/10/2013	Fri	Running	Yes	No	Monitored air pressure
5/11/2013	Sat	Running	No	No	Monitored air pressure
5/12/2013	Sun	Running	No	No	Monitored air pressure
5/13/2013	Mon	Shut Down	Yes	Yes	System overpresurized. Bled system, restarted and reset psi.
5/14/2013	Tue	Running	Yes	No	Monitored air pressure
5/15/2013	Wed	Running	Yes	No	Monitored air pressure
5/16/2013	Thur	Running	Yes	No	Monitored air pressure
5/17/2013	Fri	Running	Yes	No	Monitored air pressure
5/18/2013	Sat	Running	No	No	Monitored air pressure
5/19/2013	Sun	Running	No	No	Monitored air pressure
5/20/2013	Mon	Running	Yes	No	Monitored air pressure
5/21/2013	Tue	Running	Yes	No	Monitored air pressure
5/22/2013	Wed	Running	Yes	No	Monitored air pressure
5/23/2013	Thur	Running	Yes	Yes	Zone B pipe leaking air

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5/24/2013	Fri	Running	No	Yes	Zone B shut down
5/25/2013	Sat	Running	No	Yes	Zone B shut down
5/26/2013	Sun	Running	No	Yes	Zone B shut down
5/27/2013	Mon	Running	No	Yes	Zone B shut down
5/28/2013	Tue	Running	Yes	Yes	Zone B pipe repaired, re-presurized Zone B
5/29/2013	Wed	Running	Yes	No	Monitored air pressure
5/30/2013	Thur	Running	Yes	No	Monitored air pressure
5/31/2013	Fri	Running	No	No	Monitored air pressure
6/1/2013	Sat	Running	No	No	Monitored air pressure
6/2/2013	Sun	Running	No	No	Monitored air pressure
6/3/2013	Mon	Running	Yes	No	Adjusted Zone A
6/4/2013	Tue	Running	No	No	Monitored air pressure
6/5/2013	Wed	Running	No	No	Monitored air pressure
6/6/2013	Thur	Running	No	No	Monitored air pressure
6/7/2013	Fri	Running	No	No	Monitored air pressure
6/8/2013	Sat	Running	No	No	Monitored air pressure
6/9/2013	Sun	Running	No	No	Monitored air pressure
6/10/2013	Mon	Running	Yes	No	Adjusted Zone A
6/11/2013	Tue	Running	No	No	Monitored air pressure
6/12/2013	Wed	Running	No	No	Monitored air pressure
6/13/2013	Thur	Running	Yes	No	Adjusted Zone A
6/14/2013	Fri	Running	No	No	Monitored air pressure
6/15/2013	Sat	Running	No	No	Monitored air pressure
6/16/2013	Sun	Running	No	No	Monitored air pressure
6/17/2013	Mon	Running	Yes	No	Adjusted air pressure
6/18/2013	Tue	Running	No	No	Monitored air pressure
6/19/2013	Wed	Running	No	No	Monitored air pressure
6/20/2013	Thur	Running	No	No	Monitored air pressure
6/21/2013	Fri	Running	No	No	Monitored air pressure
6/22/2013	Sat	Running	No	No	Monitored air pressure
6/23/2013	Sun	Running	No	No	Monitored air pressure
6/24/2013	Mon	Running	No	No	Monitored air pressure
6/25/2013	Tue	Running	No	No	Monitored air pressure
6/26/2013	Wed	Running	No	No	Monitored air pressure
6/27/2013	Thur	Running	No	No	Monitored air pressure
6/28/2013	Fri	Running	No	No	Monitored air pressure
6/29/2013	Sat	Running	No	No	Monitored air pressure
6/30/2013	Sun	Running	No	No	Monitored air pressure
7/1/2013	Mon	Running	Yes	No	Power outage, restart the system
7/2/2013	Tue	Running	Yes	No	Installed air monitoring boxes on the system
7/3/2013	Wed	Running	Yes	No	Installed air monitoring boxes on the system
7/4/2013	Thur	Running	No	No	Monitored air pressure
7/5/2013	Fri	Running	No	No	Monitored air pressure
7/6/2013	Sat	Running	No	No	Monitored air pressure
7/7/2013	Sun	Running	No	No	Monitored air pressure
7/8/2013	Mon	Running	No	No	Monitored air pressure
7/9/2013	Tue	Running	No	No	Monitored air pressure
7/10/2013	Wed	Running	Yes	No	Monitored air pressure
7/11/2013	Thur	Running	Yes	No	Monitored air pressure
7/12/2013	Fri	Running	No	No	Monitored air pressure
7/13/2013	Sat	Running	No	No	Monitored air pressure
7/14/2013	Sun	Running	No	No	Monitored air pressure
7/15/2013	Mon	Running	Yes	Yes	Regrout upper boring fore Zone B
7/16/2013	Tue	Running	Yes	No	Monitored air pressure
7/17/2013	Wed	Running	Yes	No	Monitored air pressure

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7/18/2013	Thur	Running	Yes	No	Monitored air pressure
7/19/2013	Fri	Running	Yes	No	Monitored air pressure
7/20/2013	Sat	Running	No	No	Monitored air pressure
7/21/2013	Sun	Running	No	No	Monitored air pressure
7/22/2013	Mon	Running	Yes	No	Monitored air pressure
7/23/2013	Tue	Running	No	No	Monitored air pressure
7/24/2013	Wed	Running	No	No	Monitored air pressure
7/25/2013	Thur	Running	Yes	No	Monitored air pressure
7/26/2013	Fri	Running	No	No	Monitored air pressure
7/27/2013	Sat	Running	No	No	Monitored air pressure
7/28/2013	Sun	Running	No	No	Monitored air pressure
7/29/2013	Mon	Running	Yes	No	Monitored air pressure
7/30/2013	Tue	Running	No	No	Monitored air pressure
7/31/2013	Wed	Running	No	No	Monitored air pressure
8/1/2013	Thur	Running	No	No	Monitored air pressure
8/2/2013	Fri	Running	Yes	No	Monitored air pressure
8/3/2013	Sat	Running	No	No	Monitored air pressure
8/4/2013	Sun	Running	No	No	Monitored air pressure
8/5/2013	Mon	Shutdown / Restart	Yes	No	System shut down prior to collection of groundwater level measurements. System restarted after all measurements collected.
8/6/2013	Tue	Running	Yes	No	Monitored air pressure
8/7/2013	Wed	Running	Yes	No	Monitored air pressure
8/8/2013	Thur	Running	Yes	No	Monitored air pressure
8/9/2013	Fri	Running	No	No	Monitored air pressure
8/10/2013	Sat	Running	No	No	Monitored air pressure
8/11/2013	Sun	Running	No	No	Monitored air pressure
8/12/2013	Mon	Shut Down	Yes	No	Power outage, restart the system
8/13/2013	Tue	Shut Down	No	No	Power outage, restart the system
8/14/2013	Wed	Shut Down	No	No	Power outage, restart the system
8/15/2013	Thur	Shut Down	No	No	Power outage, restart the system
8/16/2013	Fri	Running	Yes	No	Monitored air pressure
8/17/2013	Sat	Running	No	No	Monitored air pressure
8/18/2013	Sun	Running	No	No	Monitored air pressure
8/19/2013	Mon	Running	No	No	Monitored air pressure
8/20/2013	Tue	Running	Yes	No	Monitored air pressure
8/21/2013	Wed	Running	Yes	No	Monitored air pressure
8/22/2013	Thur	Running	Yes	No	Monitored air pressure
8/23/2013	Fri	Running	Yes	No	Monitored air pressure
8/24/2013	Sat	Running	No	No	Monitored air pressure
8/25/2013	Sun	Running	No	No	Monitored air pressure
8/26/2013	Mon	Running	Yes	No	Monitored air pressure
8/27/2013	Tue	Running	Yes	No	Monitored air pressure
8/28/2013	Wed	Shutdown	No	Yes	System bearing burned up, rotor blades broke.
8/29/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/30/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/31/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/1/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/2/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/3/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/4/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/5/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/6/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/7/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/8/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair

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Date	Day	System Operations	O&M	Required Repair	Action / Comment
9/9/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/10/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/11/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/12/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/13/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/14/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/15/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/16/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/17/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/18/2013	Wed	Shutdown	Yes	Yes	System down, waiting for parts to repair
9/19/2013	Thur	Shutdown	Yes	Yes	System down, waiting for parts to repair
9/20/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/21/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/22/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/23/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/24/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/25/2013	Wed	Shutdown	Yes	Yes	System down, waiting for parts to repair
9/26/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/27/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/28/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/29/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/30/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
10/1/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
10/2/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
10/3/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
10/4/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
10/5/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
10/6/2013	Sun	Shutdown	No	Yes	System parts arrived. Rebuild comperessor and replace fan blades
10/7/2013	Mon	Running	Yes	No	Monitored air pressure
10/8/2013	Tue	Running	Yes	No	Monitored air pressure
10/9/2013	Wed	Running	Yes	No	Monitored air pressure
10/10/2013	Thur	Running	Yes	No	Monitored air pressure
10/11/2013	Fri	Running	No	No	Monitored air pressure
10/12/2013	Sat	Running	No	No	Monitored air pressure
10/13/2013	Sun	Running	No	No	Monitored air pressure
10/14/2013	Mon	Running	Yes	No	Monitored air pressure
10/15/2013	Tue	Running	Yes	No	Monitored air pressure
10/16/2013	Wed	Running	Yes	No	Monitored air pressure
10/17/2013	Thur	Running	No	No	Monitored air pressure
10/18/2013	Fri	Running	Yes	No	Monitored air pressure
10/19/2013	Sat	Running	No	No	Monitored air pressure
10/20/2013	Sun	Running	No	No	Monitored air pressure
10/21/2013	Mon	Shutdown	Yes	Yes	System bearing burned up, rotor blades broke.
10/22/2013	Tue	Shutdown	Yes	Yes	System down, waiting for parts to repair
10/23/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
10/24/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
10/25/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
10/26/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
10/27/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
10/28/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
10/29/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
10/30/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
10/31/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
11/1/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair

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11/2/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
11/3/2013	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
11/4/2013	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
11/5/2013	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
11/6/2013	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
11/7/2013	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
11/8/2013	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
11/9/2013	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
11/10/2013	Sun	Shutdown	No	Yes	System parts arrived. Will rebuild comperessor while crew samples SS-17 wells
11/11/2013	Mon	Running	No	No	Rebuild compressor and restart system.
11/12/2013	Tue	Running	Yes	No	Monitored air pressure
11/13/2013	Wed	Running	Yes	No	Monitored air pressure
11/14/2013	Thur	Running	Yes	No	System shut down to check repairs, collection of groundwater level measurements. System restarted after all measurements collected.
11/15/2013	Fri	Running	Yes	No	Monitored air pressure
11/16/2013	Sat	Running	No	No	Monitored air pressure
11/17/2013	Sun	Running	No	No	Monitored air pressure
11/18/2013	Mon	Running	Yes	No	Monitored air pressure
11/19/2013	Tue	Running	Yes	No	Monitored air pressure
11/20/2013	Wed	Running	Yes	No	Monitored air pressure
11/21/2013	Thur	Running	Yes	No	Monitored air pressure
11/22/2013	Fri	Running	Yes	No	Monitored air pressure
11/23/2013	Sat	Running	No	No	Monitored air pressure
11/24/2013	Sun	Running	No	No	Monitored air pressure
11/25/2013	Mon	Running	Yes	No	Monitored air pressure
11/26/2013	Tue	Running	Yes	No	Monitored air pressure
11/27/2013	Wed	Running	Yes	No	Monitored air pressure
11/28/2013	Thur	Running	Yes	No	Monitored air pressure
11/29/2013	Fri	Running	No	No	Monitored air pressure
11/30/2013	Sat	Running	No	No	Monitored air pressure
12/1/2013	Sun	Running	No	No	Monitored air pressure
12/2/2013	Mon	Running	Yes	No	Monitored air pressure
12/3/2013	Tue	Running	Yes	No	Monitored air pressure
12/4/2013	Wed	Running	Yes	No	Monitored air pressure
12/5/2013	Thur	Running	Yes	No	Monitored air pressure
12/6/2013	Fri	Running	Yes	No	Monitored air pressure
12/7/2013	Sat	Running	No	No	Monitored air pressure
12/8/2013	Sun	Running	No	No	Monitored air pressure
12/9/2013	Mon	Running	Yes	No	Monitored air pressure
12/10/2013	Tue	Running	Yes	No	Monitored air pressure
12/11/2013	Wed	Running	Yes	No	Monitored air pressure
12/12/2013	Thur	Running	Yes	No	Monitored air pressure
12/13/2013	Fri	Running	Yes	No	Monitored air pressure
12/14/2013	Sat	Running	No	No	Monitored air pressure
12/15/2013	Sun	Running	No	No	Monitored air pressure
12/16/2013	Mon	Running	Yes	No	Monitored air pressure
12/17/2013	Tue	Running	Yes	No	Monitored air pressure
12/18/2013	Wed	Running	Yes	No	Monitored air pressure
12/19/2013	Thur	Running	Yes	No	Monitored air pressure
12/20/2013	Fri	Running	Yes	No	Monitored air pressure
12/21/2013	Sat	Running	No	No	Monitored air pressure
12/22/2013	Sun	Running	No	No	Monitored air pressure
12/23/2013	Mon	Running	Yes	No	Monitored air pressure

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Date	Day	System Operations	O&M	Required Repair	Action / Comment
12/24/2013	Tue	Running	No	No	Monitored air pressure
12/25/2013	Wed	Running	No	No	Monitored air pressure
12/26/2013	Thur	Running	Yes	No	Monitored air pressure
12/27/2013	Fri	Running	Yes	No	Monitored air pressure
12/28/2013	Sat	Running	No	No	Monitored air pressure
12/29/2013	Sun	Running	No	No	Monitored air pressure
12/30/2013	Mon	Running	No	No	Monitored air pressure
12/31/2013	Tue	Running	No	No	Monitored air pressure
1/1/2014	Wed	Running	No	No	Monitored air pressure
1/2/2014	Thur	Running	Yes	No	Monitored air pressure
1/3/2014	Fri	Running	Yes	No	Monitored air pressure
1/4/2014	Sat	Running	No	No	Monitored air pressure
1/5/2014	Sun	Running	No	No	Monitored air pressure
1/6/2014	Mon	Running	Yes	No	Monitored air pressure
1/7/2014	Tue	Running	Yes	No	Monitored air pressure
1/8/2014	Wed	Running	Yes	No	Monitored air pressure
1/9/2014	Thur	Running	Yes	No	Monitored air pressure
1/10/2014	Fri	Running	Yes	No	Monitored air pressure
1/11/2014	Sat	Running	No	No	Monitored air pressure
1/12/2014	Sun	Running	No	No	Monitored air pressure
1/13/2014	Mon	Running	Yes	No	Monitored air pressure
1/14/2014	Tue	Running	Yes	No	Monitored air pressure
1/15/2014	Wed	Running	Yes	No	Monitored air pressure
1/16/2014	Thur	Running	Yes	No	Monitored air pressure
1/17/2014	Fri	Running	Yes	No	Monitored air pressure
1/18/2014	Sat	Running	No	No	Monitored air pressure
1/19/2014	Sun	Running	No	No	Monitored air pressure
1/20/2014	Mon	Running	Yes	No	Monitored air pressure
1/21/2014	Tue	Running	Yes	No	Monitored air pressure
1/22/2014	Wed	Running	Yes	No	Monitored air pressure
1/23/2014	Thur	Running	Yes	No	Monitored air pressure
1/24/2014	Fri	Running	Yes	No	Monitored air pressure
1/25/2014	Sat	Running	No	No	Monitored air pressure
1/26/2014	Sun	Running	No	No	Monitored air pressure
1/27/2014	Mon	Running	Yes	No	Monitored air pressure
1/28/2014	Tue	Running	Yes	No	Monitored air pressure
1/29/2014	Wed	Running	Yes	No	Monitored air pressure
1/30/2014	Thur	Running	Yes	No	Monitored air pressure
1/31/2014	Fri	Running	Yes	No	Monitored air pressure
2/1/2014	Sat	Running	No	No	Monitored air pressure
2/2/2014	Sun	Running	No	No	Monitored air pressure
2/3/2014	Mon	Running	Yes	No	Monitored air pressure
2/4/2014	Tue	Running	Yes	No	Monitored air pressure
2/5/2014	Wed	Shutown / Restart	Yes	No	System shut down prior to collection of groundwater level measurements. System restarted after all measurements collected.
2/6/2014	Thur	Running	Yes	No	Monitored air pressure
2/7/2014	Fri	Running	Yes	No	Monitored air pressure
2/8/2014	Sat	Running	No	No	Monitored air pressure
2/9/2014	Sun	Running	No	No	Monitored air pressure
2/10/2014	Mon	Running	Yes	No	Monitored air pressure
2/11/2014	Tue	Running	Yes	No	Monitored air pressure
2/12/2014	Wed	Running	Yes	No	Monitored air pressure
2/13/2014	Thur	Running	Yes	No	Monitored air pressure
2/14/2014	Fri	Running	Yes	No	Monitored air pressure

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Date	Day	System Operations	O&M	Required Repair	Action / Comment
2/15/2014	Sat	Running	No	No	Monitored air pressure
2/16/2014	Sun	Running	No	No	Monitored air pressure
2/17/2014	Mon	Running	No	No	Monitored air pressure
2/18/2014	Tue	Running	Yes	No	Monitored air pressure
2/19/2014	Wed	Running	Yes	No	Monitored air pressure
2/20/2014	Thur	Running	Yes	No	Monitored air pressure
2/21/2014	Fri	Running	Yes	No	Monitored air pressure
2/22/2014	Sat	Running	No	No	Monitored air pressure
2/23/2014	Sun	Running	No	No	Monitored air pressure
2/24/2014	Mon	Running	Yes	No	Monitored air pressure
2/25/2014	Tue	Running	Yes	No	Monitored air pressure
2/26/2014	Wed	Running	Yes	No	Monitored air pressure
2/27/2014	Thur	Running	Yes	No	Monitored air pressure
2/28/2014	Fri	Running	Yes	No	Monitored air pressure
3/1/2014	Sat	Running	No	No	Monitored air pressure
3/2/2014	Sun	Running	No	No	Monitored air pressure
3/3/2014	Mon	Running	Yes	No	Monitored air pressure
3/4/2014	Tue	Running	Yes	No	Monitored air pressure
3/5/2014	Wed	Running	Yes	No	Monitored air pressure
3/6/2014	Thur	Running	Yes	No	Monitored air pressure
3/7/2014	Fri	Running	Yes	No	Monitored air pressure
3/8/2014	Sat	Running	No	No	Monitored air pressure
3/9/2014	Sun	Running	No	No	Monitored air pressure
3/10/2014	Mon	Running	No	No	Monitored air pressure
3/11/2014	Tue	Running	No	No	Monitored air pressure
3/12/2014	Wed	Running	Yes	No	Monitored air pressure
3/13/2014	Thur	Running	Yes	No	Monitored air pressure
3/14/2014	Fri	Running	Yes	No	Monitored air pressure
3/15/2014	Sat	Running	No	No	Monitored air pressure
3/16/2014	Sun	Running	No	No	Monitored air pressure
3/17/2014	Mon	Running	Yes	No	Monitored air pressure
3/18/2014	Tue	Running	Yes	No	Monitored air pressure
3/19/2014	Wed	Running	Yes	No	Monitored air pressure
3/20/2014	Thur	Running	Yes	No	Monitored air pressure
3/21/2014	Fri	Running	Yes	No	Monitored air pressure
3/22/2014	Sat	Running	No	No	Monitored air pressure
3/23/2014	Sun	Running	No	No	Monitored air pressure
3/24/2014	Mon	Running	Yes	No	Monitored air pressure
3/25/2014	Tue	Running	Yes	No	Monitored air pressure
3/26/2014	Wed	Running	Yes	No	Monitored air pressure
3/27/2014	Thur	Running	Yes	No	Monitored air pressure
3/28/2014	Fri	Running	Yes	No	Monitored air pressure
3/29/2014	Sat	Running	No	No	Monitored air pressure
3/30/2014	Sun	Running	No	No	Monitored air pressure
3/31/2014	Mon	Running	Yes	No	Monitored air pressure
4/1/2014	Tue	Running	Yes	No	Monitored air pressure
4/2/2014	Wed	Running	Yes	No	Monitored air pressure
4/3/2014	Thur	Running	Yes	No	Monitored air pressure
4/4/2014	Fri	Running	Yes	No	Monitored air pressure
4/5/2014	Sat	Running	No	No	Monitored air pressure
4/6/2014	Sun	Running	No	No	Monitored air pressure
4/7/2014	Mon	Running	Yes	No	Monitored air pressure
4/8/2014	Tue	Running	Yes	No	Monitored air pressure
4/9/2014	Wed	Running	Yes	No	Monitored air pressure
4/10/2014	Thur	Running	Yes	No	Monitored air pressure

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4/11/2014	Fri	Running	Yes	No	Monitored air pressure
4/12/2014	Sat	Running	No	No	Monitored air pressure
4/13/2014	Sun	Running	No	No	Monitored air pressure
4/14/2014	Mon	Running	Yes	No	Monitored air pressure
4/15/2014	Tue	Running	Yes	No	Monitored air pressure
4/16/2014	Wed	Running	Yes	No	Monitored air pressure
4/17/2014	Thur	Running	Yes	No	Monitored air pressure
4/18/2014	Fri	Running	Yes	No	Monitored air pressure
4/19/2014	Sat	Running	No	No	Monitored air pressure
4/20/2014	Sun	Running	No	No	Monitored air pressure
4/21/2014	Mon	Running	Yes	No	Monitored air pressure
4/22/2014	Tue	Running	Yes	No	Monitored air pressure
4/23/2014	Wed	Running	Yes	No	Monitored air pressure
4/24/2014	Thur	Running	Yes	No	Monitored air pressure
4/25/2014	Fri	Running	Yes	No	Monitored air pressure
4/26/2014	Sat	Running	No	No	Monitored air pressure
4/27/2014	Sun	Running	No	No	Monitored air pressure
4/28/2014	Mon	Running	Yes	No	Monitored air pressure
4/29/2014	Tue	Running	Yes	No	Monitored air pressure
4/30/2014	Wed	Running	Yes	No	Monitored air pressure
5/1/2014	Thur	Running	Yes	No	Monitored air pressure
5/2/2014	Fri	Running	Yes	No	Monitored air pressure
5/3/2014	Sat	Running	No	No	Monitored air pressure
5/4/2014	Sun	Running	No	No	Monitored air pressure
5/5/2014	Mon	Running	Yes	No	Monitored air pressure
5/6/2014	Tue	Running	Yes	No	Monitored air pressure
5/7/2014	Wed	Running	Yes	No	Monitored air pressure
5/8/2014	Thur	Running	Yes	No	Monitored air pressure
5/9/2014	Fri	Running	Yes	No	Monitored air pressure
5/10/2014	Sat	Running	No	No	Monitored air pressure
5/11/2014	Sun	Running	No	No	Monitored air pressure
5/12/2014	Mon	Running	Yes	No	Monitored air pressure
5/13/2014	Tue	Running	Yes	No	Monitored air pressure
5/14/2014	Wed	Running	Yes	No	Monitored air pressure
5/15/2014	Thur	Running	Yes	No	Monitored air pressure
5/16/2014	Fri	Running	Yes	No	Monitored air pressure
5/17/2014	Sat	Running	No	No	Monitored air pressure
5/18/2014	Sun	Running	No	No	Monitored air pressure
5/19/2014	Mon	Running	Yes	No	Monitored air pressure
5/20/2014	Tue	Running	Yes	No	Monitored air pressure
5/21/2014	Wed	Running	Yes	No	Monitored air pressure
5/22/2014	Thur	Running	Yes	No	Monitored air pressure
5/23/2014	Fri	Running	Yes	No	Monitored air pressure
5/24/2014	Sat	Running	Yes	No	Monitored air pressure
5/25/2014	Sun	Running	No	No	Monitored air pressure
5/26/2014	Mon	Running	No	No	Monitored air pressure
5/27/2014	Tue	Running	Yes	No	Monitored air pressure
5/28/2014	Wed	Running	Yes	No	Monitored air pressure
5/29/2014	Thur	Shutdown / Restart	Yes	No	System shut down prior to collection of groundwater level measurements. System restarted after all measurements collected.
5/30/2014	Fri	Running	Yes	No	Monitored air pressure
5/31/2014	Sat	Running	No	No	Monitored air pressure
6/1/2014	Sun	Running	No	No	Monitored air pressure
6/2/2014	Mon	Running	Yes	No	Monitored air pressure

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6/3/2014	Tue	Running	Yes	No	Monitored air pressure
6/4/2014	Wed	Running	Yes	No	Monitored air pressure
6/5/2014	Thur	Running	Yes	No	Monitored air pressure
6/6/2014	Fri	Running	Yes	No	Monitored air pressure
6/7/2014	Sat	Running	No	No	Monitored air pressure
6/8/2014	Sun	Running	No	No	Monitored air pressure
6/9/2014	Mon	Running	Yes	No	Monitored air pressure
6/10/2014	Tue	Running	Yes	No	Monitored air pressure
6/11/2014	Wed	Running	Yes	No	Monitored air pressure
6/12/2014	Thur	Running	Yes	No	Monitored air pressure
6/13/2014	Fri	Running	No	No	Monitored air pressure
6/14/2014	Sat	Running	No	No	Monitored air pressure
6/15/2014	Sun	Running	No	No	Monitored air pressure
6/16/2014	Mon	Shutdown	Yes	Yes	Compressor seized, shaft warped, caused dissentigration of bearing. Have t replace shaft, bearing, bearing collars and fan blades
6/17/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
6/18/2014	Wed	Shutdown	Yes	Yes	System down, waiting for parts to repair
6/19/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
6/20/2014	Fri	Shutdown	Yes	Yes	System down, waiting for parts to repair
6/21/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
6/22/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
6/23/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
6/24/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
6/25/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
6/26/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
6/27/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
6/28/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
6/29/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
6/30/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
7/1/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
7/2/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
7/3/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
7/4/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
7/5/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
7/6/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
7/7/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
7/8/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
7/9/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
7/10/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
7/11/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
7/12/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
7/13/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
7/14/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
7/15/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
7/16/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
7/17/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
7/18/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
7/19/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
7/20/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
7/21/2014	Mon	Shutdown	Yes	Yes	System down, waiting for parts to repair
7/22/2014	Tue	Shutdown	Yes	Yes	System down, waiting for parts to repair
7/23/2014	Wed	Shutdown	Yes	Yes	System down, waiting for parts to repair
7/24/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
7/25/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair

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7/26/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
7/27/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
7/28/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
7/29/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
7/30/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
7/31/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/1/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/2/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
8/3/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
8/4/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
8/5/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
8/6/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
8/7/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/8/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/9/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
8/10/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
8/11/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
8/12/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
8/13/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
8/14/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/15/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/16/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
8/17/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
8/18/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
8/19/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
8/20/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
8/21/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/22/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/23/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
8/24/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
8/25/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
8/26/2014	Tue	Shutdown	No	Yes	System not running / Waiting for shaft, bearing and fan arms to be rebuilt and/or replaced. Conducted groundwater level measurements and groundwater sampling at SS-17 site.
8/27/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
8/28/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
8/29/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
8/30/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
8/31/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/1/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/2/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/3/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/4/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/5/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/6/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/7/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/8/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/9/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/10/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/11/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/12/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/13/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/14/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/15/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair

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9/16/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/17/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/18/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/19/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/20/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/21/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/22/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/23/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
9/24/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
9/25/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
9/26/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
9/27/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
9/28/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
9/29/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
9/30/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
10/1/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
10/2/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
10/3/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
10/4/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
10/5/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
10/6/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
10/7/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
10/8/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
10/9/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
10/10/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
10/11/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
10/12/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
10/13/2014	Mon	Shutdown	Yes	Yes	Compressor repaired. Onsite putting system back together
10/14/2014	Tue	Shutdown	Yes	Yes	Compressor repaired. Onsite putting system back together
10/15/2014	Wed	Startup / Shutdown	Yes	Yes	Compressor repaired. Run and have to shutdown, threw blades.
10/16/2014	Thur	Shutdown	Yes	Yes	System down, waiting for parts to repair
10/17/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
10/18/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
10/19/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
10/20/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
10/21/2014	Tue	Running	Yes	No	System running / Repair of shaft, bearing and replace fan arms. Turn system on
10/22/2014	Wed	Running	Yes	No	Monitored system function and air pressure
10/23/2014	Thur	Running	No	No	Monitored system function and air pressure
10/24/2014	Fri	Running	No	No	Monitored system function and air pressure
10/25/2014	Sat	Running	No	No	Monitored system function and air pressure
10/26/2014	Sun	Running	No	No	Monitored system function and air pressure
10/27/2014	Mon	Running	Yes	No	Monitored system function and air pressure
10/28/2014	Tue	Running	Yes	No	Monitored system function and air pressure
10/29/2014	Wed	Running	Yes	No	Monitored system function and air pressure
10/30/2014	Thur	Running	Yes	No	Monitored system function and air pressure
10/31/2014	Fri	Running	No	No	Monitored system function and air pressure
11/1/2014	Sat	Running	No	No	Monitored system function and air pressure
11/2/2014	Sun	Running	No	No	Monitored system function and air pressure
11/3/2014	Mon	Running	No	No	Monitored system function and air pressure
11/4/2014	Tue	Running	Yes	No	Monitored system function and air pressure
11/5/2014	Wed	Running	Yes	No	Monitored system function and air pressure
11/6/2014	Thur	Running	Yes	No	Monitored system function and air pressure
11/7/2014	Fri	Running	Yes	No	Monitored system function and air pressure

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11/8/2014	Sat	Running	No	No	Monitored system function and air pressure
11/9/2014	Sun	Running	No	No	Monitored system function and air pressure
11/10/2014	Mon	Running	Yes	No	Monitored system function and air pressure
11/11/2014	Tue	Running	Yes	No	Monitored system function and air pressure
11/12/2014	Wed	Running	Yes	No	Monitored system function and air pressure
11/13/2014	Thur	Running	Yes	No	Monitored system function and air pressure
11/14/2014	Fri	Running	Yes	No	Monitored system function and air pressure
11/15/2014	Sat	Running	No	No	Monitored system function and air pressure
11/16/2014	Sun	Running	No	No	Monitored system function and air pressure
11/17/2014	Mon	Running	Yes	No	Monitored system function and air pressure
11/18/2014	Tue	Running	Yes	No	Monitored system function and air pressure
11/19/2014	Wed	Running	Yes	No	Monitored system function and air pressure
11/20/2014	Thur	Shutdown / Restart	Yes	No	System shut down prior to collection of groundwater level measurements. System restarted after all measurements collected.
11/21/2014	Fri	Running	Yes	No	Monitored system function and air pressure
11/22/2014	Sat	Running	No	No	Monitored system function and air pressure
11/23/2014	Sun	Running	No	No	Monitored system function and air pressure
11/24/2014	Mon	Running	Yes	No	Monitored system function and air pressure
11/25/2014	Tue	Running	Yes	No	Monitored system function and air pressure
11/26/2014	Wed	Running	Yes	No	Monitored system function and air pressure
11/27/2014	Thur	Running	Yes	No	Monitored system function and air pressure
11/28/2014	Fri	Running	Yes	No	Monitored system function and air pressure
11/29/2014	Sat	Running	No	No	Monitored system function and air pressure
11/30/2014	Sun	Running	No	No	Monitored system function and air pressure
12/1/2014	Mon	Running	Yes	No	Monitored system function and air pressure
12/2/2014	Tue	Running	Yes	No	Monitored system function and air pressure
12/3/2014	Wed	Running	Yes	No	Monitored system function and air pressure
12/4/2014	Thur	Running	Yes	No	Monitored system function and air pressure
12/5/2014	Fri	Running	Yes	No	Monitored system function and air pressure
12/6/2014	Sat	Running	No	No	Monitored system function and air pressure
12/7/2014	Sun	Running	No	No	Monitored system function and air pressure
12/8/2014	Mon	Running	Yes	No	Monitored system function and air pressure
12/9/2014	Tue	Shutdown	Yes	Yes	Troubleshoot compressor, shaft warped and bearing collar broken
12/10/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
12/11/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
12/12/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
12/13/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
12/14/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
12/15/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
12/16/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
12/17/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
12/18/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
12/19/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
12/20/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
12/21/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
12/22/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
12/23/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
12/24/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
12/25/2014	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
12/26/2014	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
12/27/2014	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
12/28/2014	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
12/29/2014	Mon	Shutdown	No	Yes	System down, waiting for parts to repair

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12/30/2014	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
12/31/2014	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
1/1/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
1/2/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
1/3/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
1/4/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
1/5/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
1/6/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
1/7/2015	Wed	Shutdown	No	Yes	Repair parts are in, make repairs to compressor
1/8/2015	Thur	Running	Yes	No	Monitored system function and air pressure
1/9/2015	Fri	Running	Yes	No	Monitored system function and air pressure
1/10/2015	Sat	Running	No	No	Monitored system function and air pressure
1/11/2015	Sun	Running	No	No	Monitored system function and air pressure
1/12/2015	Mon	Running	No	No	Monitored system function and air pressure
1/13/2015	Tue	Running	No	No	Monitored system function and air pressure
1/14/2015	Wed	Running	Yes	No	Monitored system function and air pressure
1/15/2015	Thur	Running	Yes	No	Monitored system function and air pressure
1/16/2015	Fri	Running	Yes	No	Monitored system function and air pressure
1/17/2015	Sat	Running	No	No	Monitored system function and air pressure
1/18/2015	Sun	Running	No	No	Monitored system function and air pressure
1/19/2015	Mon	Running	Yes	No	Monitored system function and air pressure
1/20/2015	Tue	Running	Yes	No	Monitored system function and air pressure
1/21/2015	Wed	Running	Yes	No	Monitored system function and air pressure
1/22/2015	Thur	Running	Yes	No	Monitored system function and air pressure
1/23/2015	Fri	Running	Yes	No	Monitored system function and air pressure
1/24/2015	Sat	Running	No	No	Monitored system function and air pressure
1/25/2015	Sun	Running	No	No	Monitored system function and air pressure
1/26/2015	Mon	Running	Yes	No	Monitored system function and air pressure
1/27/2015	Tue	Running	Yes	No	Monitored system function and air pressure
1/28/2015	Wed	Running	Yes	No	Monitored system function and air pressure
1/29/2015	Thur	Running	Yes	No	Monitored system function and air pressure
1/30/2015	Fri	Running	Yes	No	Monitored system function and air pressure
1/31/2015	Sat	Running	No	No	Monitored system function and air pressure
2/1/2015	Sun	Running	No	No	Monitored system function and air pressure
2/2/2015	Mon	Running	Yes	No	Monitored system function and air pressure
2/3/2015	Tue	Shutdown / Restart	Yes	No	System shut down prior to collection of groundwater level measurements. System restarted after all measurements collected.
2/4/2015	Wed	Running	Yes	No	Monitored system function and air pressure
2/5/2015	Thur	Running	Yes	No	Monitored system function and air pressure
2/6/2015	Fri	Running	Yes	No	Monitored system function and air pressure
2/7/2015	Sat	Shutdown	Yes	Yes	Compressor down, bushings deteriorated, fan vanes broken
2/8/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
2/9/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
2/10/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
2/11/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
2/12/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
2/13/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
2/14/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
2/15/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
2/16/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
2/17/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
2/18/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
2/19/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair

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2/20/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
2/21/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
2/22/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
2/23/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
2/24/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
2/25/2015	Wed	Shutdown	No	Yes	Repair parts are in, make repairs to compressor
2/26/2015	Thur	Running	Yes	No	Monitored system function and air pressure
2/27/2015	Fri	Running	Yes	No	Monitored system function and air pressure
2/28/2015	Sat	Running	Yes	No	Monitored system function and air pressure
3/1/2015	Sun	Running	Yes	No	Monitored system function and air pressure
3/2/2015	Mon	Running	Yes	No	Monitored system function and air pressure
3/3/2015	Tue	Running	Yes	No	Monitored system function and air pressure
3/4/2015	Wed	Running	Yes	No	Monitored system function and air pressure
3/5/2015	Thur	Running	Yes	No	Monitored system function and air pressure
3/6/2015	Fri	Running	Yes	No	Monitored system function and air pressure
3/7/2015	Sat	Running	No	No	Monitored system function and air pressure
3/8/2015	Sun	Running	No	No	Monitored system function and air pressure
3/9/2015	Mon	Running	Yes	No	Monitored system function and air pressure
3/10/2015	Tue	Shutdown	Yes	Yes	Compressor down, bearings out again, fan vanes broken. Ordered new bearing, will need to be pressed onto shaft, shaft will need to be machined to ensure no vibration
3/11/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
3/12/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
3/13/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
3/14/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
3/15/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
3/16/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
3/17/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
3/18/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
3/19/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
3/20/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
3/21/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
3/22/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
3/23/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
3/24/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
3/25/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
3/26/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
3/27/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
3/28/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
3/29/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
3/30/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
3/31/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
4/1/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
4/2/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
4/3/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
4/4/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
4/5/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
4/6/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
4/7/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
4/8/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
4/9/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
4/10/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
4/11/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
4/12/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair

SS-17 AISEB Operations and Maintenance Log
Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
4/13/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
4/14/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
4/15/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair
4/16/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair
4/17/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair
4/18/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair
4/19/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair
4/20/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair
4/21/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair
4/22/2015	Wed	Shutdown	No	Yes	Replace drive shaft, and fan baldes. Restart system. No vibrations
4/23/2015	Thur	Running	Yes	No	Monitored system function and air pressure
4/24/2015	Fri	Running	Yes	No	Monitored system function and air pressure
4/25/2015	Sat	Running	Yes	No	Monitored system function and air pressure
4/26/2015	Sun	Running	Yes	No	Monitored system function and air pressure
4/27/2015	Mon	Running	Yes	No	Monitored system function and air pressure
4/28/2015	Tue	Running	Yes	No	Monitored system function and air pressure
4/29/2015	Wed	Running	Yes	No	Monitored system function and air pressure
4/30/2015	Thur	Running	Yes	No	Monitored system function and air pressure
5/1/2015	Fri	Running	Yes	No	Monitored system function and air pressure
5/2/2015	Sat	Running	No	No	Monitored system function and air pressure
5/3/2015	Sun	Running	No	No	Monitored system function and air pressure
5/4/2015	Mon	Running	Yes	No	Monitored system function and air pressure
5/5/2015	Tue	Running	Yes	No	Monitored system function and air pressure
5/6/2015	Wed	Running	Yes	No	Monitored system function and air pressure
5/7/2015	Thur	Running	Yes	No	Monitored system function and air pressure
5/8/2015	Fri	Running	Yes	No	Monitored system function and air pressure
5/9/2015	Sat	Running	Yes	No	Monitored system function and air pressure
5/10/2015	Sun	Running	No	No	Monitored system function and air pressure
5/11/2015	Mon	Running	No	No	Monitored system function and air pressure
5/12/2015	Tue	Running	Yes	No	Monitored system function and air pressure
5/13/2015	Wed	Running	Yes	No	Monitored system function and air pressure
5/14/2015	Thur	Running	Yes	No	Monitored system function and air pressure
5/15/2015	Fri	Running	Yes	No	Monitored system function and air pressure
5/16/2015	Sat	Shutdown	No	Yes	System shut down, need to replace the compressor. Main shaft, bearings and fan baldes beyond repair. Shaft hollowed out insertion point for comperssor body, vibrates when shaft begins revolutions, throws blades.
5/17/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/18/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/19/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/20/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/21/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/22/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/23/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/24/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/25/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/26/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/27/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/28/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/29/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
5/30/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement

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Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
5/31/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/1/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement (Project subcontracted to Trinity ADC)
6/2/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/3/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/4/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/5/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/6/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/7/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/8/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/9/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/10/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/11/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/12/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/13/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/14/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/15/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/16/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/17/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/18/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/19/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/20/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/21/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/22/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/23/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/24/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/25/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/26/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/27/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/28/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/29/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
6/30/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/1/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/2/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/3/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/4/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/5/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/6/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/7/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/8/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/9/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/10/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/11/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/12/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/13/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/14/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/15/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/16/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/17/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/18/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/19/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/20/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/21/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement

SS-17 AISEB Operations and Maintenance Log
Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
7/22/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/23/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/24/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/25/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/26/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/27/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/28/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/29/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/30/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
7/31/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/1/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/2/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/3/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/4/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/5/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/6/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/7/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/8/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/9/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/10/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/11/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/12/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/13/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/14/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/15/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/16/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/17/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/18/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/19/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/20/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/21/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/22/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/23/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/24/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/25/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/26/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/27/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/28/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/29/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/30/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
8/31/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/1/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/2/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/3/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/4/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/5/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/6/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/7/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/8/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/9/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/10/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/11/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/12/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement

SS-17 AISEB Operations and Maintenance Log
Holloman Air Force Base, New Mexico
NationView Project N0. 11-0019

Date	Day	System Operations	O&M	Required Repair	Action / Comment
9/13/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/14/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/15/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/16/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/17/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/18/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/19/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/20/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/21/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/22/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/23/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/24/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/25/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/26/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/27/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/28/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/29/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
9/30/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/1/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/2/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/3/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/4/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/5/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/6/2015	Tue	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/7/2015	Wed	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/8/2015	Thur	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/9/2015	Fri	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/10/2015	Sat	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/11/2015	Sun	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/12/2015	Mon	Shutdown	No	Yes	System down, waiting for parts to repair / replacement
10/13/2015	Tue	Shutdown	No	No	Project being turned over to URS/AECOM. Based upon discussion with URS/AECOM, AESIB system will not be utilized. Upon concurrence with HAFB Environmental, the airline have been cut below grade, capped, sealed and surface returned to natural state. Trailer has been handed over to the HAFB, no longer the property of Trinity ADC.

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APPENDIX D

Groundwater Sampling Field Forms

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Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/27
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW05
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 65 °F
Total Well Depth (TWD) = 16.06 1/100 ft
Depth to Ground Water (DGW) = 7.12 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.94 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.43 gallons
4.29 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 7.26 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 (mL)	5500	11000	16500	22000	27500			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	0715	0726	0737	0748	0759			
pH (S.U.)	6.64	6.62	6.60	6.60	6.60			
Specific Conductivity	4.66	4.81	5.00	5.04	5.09			
Water Temp (°C)	27.21	27.71	27.86	27.86	27.87			
Dissolved Oxygen (mg/L)	2.42	1.63	1.62	1.64	1.62			
Oxidation Reduction Potentail (ORP) (mV)	-346.1	-335.4	-350.9	-348.5	-347.1			
Turbidity (NTU)	21	12	5.3	1.4	.9			
Water Level (ft/TOC)	7.25	7.25	7.26	7.26	7.26			

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/27
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW07
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 66 °F
Total Well Depth (TWD) = 15.18 1/100 ft
Depth to Ground Water (DGW) = 6.94 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.24 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.32 gallons
3.96 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 4.40 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 (mL)	5000	10000	15000	20000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	0900	0910	0920	0930				
pH (S.U.)	6.89	6.90	6.91	6.91				
Specific Conductivity	4.55	4.60	4.46	4.44				
Water Temp (°C)	27.04	27.11	27.40	27.41				
Dissolved Oxygen (mg/L)	0.63	0.45	0.44	0.44				
Oxidation Reduction Potentail (ORP) (mV)	-256.0	-243.0	-238.1	-236.2				
Turbidity (NTU)	0.85	0.00	0.00	0.00				
Water Level (ft/TOC)	7.11	7.12	7.12	7.12				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/27
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW08
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 68 °F
Total Well Depth (TWD) = 16.67 1/100 ft
Depth to Ground Water (DGW) = 6.18 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.49 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.68 gallons
5.04 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.87 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 (mL)	6500	13000	19500	26000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	1013	1026	1039	1052				
pH (S.U.)	6.68	6.65	6.65	6.64				
Specific Conductivity	4.13	4.20	4.25	4.26				
Water Temp (°C)	28.23	28.26	28.22	28.24				
Dissolved Oxygen (mg/L)	0.28	0.26	0.25	0.24				
Oxidation Reduction Potentail (ORP) (mV)	-320.5	-323.1	-321.8	-324.0				
Turbidity (NTU)	9.1	5.1	2.2	1.9				
Water Level (ft/TOC)	6.36	6.38	6.38	6.37				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/26
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW21
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 82 °F
Total Well Depth (TWD) = 16.25 1/100 ft
Depth to Ground Water (DGW) = 6.02 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.23 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.64 gallons
4.91 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.87 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 (mL)	6500	13000	19500	26000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	1123	1136	1149	1202				
pH (S.U.)	6.66	6.67	6.65	6.64				
Specific Conductivity	4.48	5.26	5.29	5.28				
Water Temp (°C)	26.25	26.46	26.49	26.58				
Dissolved Oxygen (mg/L)	1.00	1.30	1.32	1.32				
Oxidation Reduction Potentail (ORP) (mV)	-373.0	-371.8	-372.1	372.2				
Turbidity (NTU)	37	24	18	15				
Water Level (ft/TOC)	6.23	6.20	6.21	6.23				

COMMENTS/OBSERVATIONS: Odor from well

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/26
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW22
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 71 °F
Total Well Depth (TWD) = 16.29 1/100 ft
Depth to Ground Water (DGW) = 8.46 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 7.83 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.25 gallons
3.76 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.60 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 (mL)	5000	10000	15000	20000	25000			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	1000	1010	1020	1030	1040			
pH (S.U.)	6.78	6.77	6.79	6.76	6.80			
Specific Conductivity	7.95	8.12	8.59	8.78	8.81			
Water Temp (°C)	23.43	23.37	23.27	23.24	23.15			
Dissolved Oxygen (mg/L)	.17	.13	.10	.10	.09			
Oxidation Reduction Potentail (ORP) (mV)	-74.9	-88.1	-84.0	-74.5	-74.9			
Turbidity (NTU)	30	32	14	11	9.2			
Water Level (ft/TOC)	8.81	8.89	8.93	8.94	8.94			

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/08/26
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW23
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 68 °F
Total Well Depth (TWD) = 17.15 1/100 ft
Depth to Ground Water (DGW) = 7.46 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.69 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.55 gallons
4.70 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 8.45 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 (mL)	6500	13000	19500	25500	32000			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	0828	0841	0854	0907	0920			
pH (S.U.)	6.62	6.65	6.64	6.65	6.65			
Specific Conductivity	9.13	8.56	8.37	8.37	8.37			
Water Temp (°C)	24.64	25.14	25.16	25.15	25.14			
Dissolved Oxygen (mg/L)	2.24	0.57	0.32	0.31	0.30			
Oxidation Reduction Potentail (ORP) (mV)	32.1	23.0	13.5	13.7	13.6			
Turbidity (NTU)	4.8	4.5	4.1	2.0	0.55			
Water Level (ft/TOC)	8.09	8.42	8.77	9.11	9.33			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/24
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW05
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 32 °F
Total Well Depth (TWD) = 16.05 1/100 ft
Depth to Ground Water (DGW) = 6.38 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.67 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.55 gallons
4.64 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.34 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 (mL)	6000	12000	18000	24000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	0732	0744	0756	0808				
pH (S.U.)	7.18	7.17	7.17	7.16				
Specific Conductivity	4.138	4.424	4.921	4.960				
Water Temp (°C)	26.14	26.22	26.27	26.28				
Dissolved Oxygen (mg/L)	4.27	3.20	3.11	3.07				
Oxidation Reduction Potentail (ORP) (mV)	-304.7	-327.4	-322.7	-321.0				
Turbidity (NTU)	18	5.4	3.4	0.75				
Water Level (ft/TOC)	6.54	6.54	6.55	6.55				

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/24
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW07
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 43 °F
Total Well Depth (TWD) = 15.18 1/100 ft
Depth to Ground Water (DGW) = 6.31 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.87 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.42 gallons
4.26 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 7.26 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 (mL)	5500	11000	16500	22000	27500			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	0851	0902	0913	0924	0935			
pH (S.U.)	7.35	7.36	7.36	7.37	7.37			
Specific Conductivity	5.630	5.974	6.286	6.415	6.475			
Water Temp (°C)	25.70	25.84	25.88	25.95	25.97			
Dissolved Oxygen (mg/L)	2.45	1.55	1.02	0.98	0.92			
Oxidation Reduction Potentail (ORP) (mV)	-279.5	-274.7	-277.5	-275.7	-272.0			
Turbidity (NTU)	21	4.3	0.00	0.00	0.0			
Water Level (ft/TOC)	6.48	6.48	6.49	6.49	6.50			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/24
Field Personnel K. Fuller / B Parrish
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW08
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 45 °F
Total Well Depth (TWD) = 16.68 1/100 ft
Depth to Ground Water (DGW) = 6.34 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.34 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.65 gallons
4.96 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.87 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 (mL)	6500	13000	19500	26000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	1033	1046	1059	1112				
pH (S.U.)	7.36	7.35	7.34	7.34				
Specific Conductivity	7.052	7.179	7.374	7.401				
Water Temp (^{o}C)	25.67	25.70	25.77	25.80				
Dissolved Oxygen (mg/L)	0.66	0.57	0.54	0.52				
Oxidation Reduction Potentail (ORP) (mV)	--309.3	-322.9	-319.9	-318.6				
Turbidity (NTU)	3.6	1.2	0.40	0.45				
Water Level (ft/TOC)	6.52	6.52	6.53	6.53				

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/20
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW21
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 50 °F
Total Well Depth (TWD) = 16.22 1/100 ft
Depth to Ground Water (DGW) = 6.25 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9 .97 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.59 gallons
4.785 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.86 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 (mL)	6500	13000	19500	26000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	1138	1151	1204	1217				
pH (S.U.)	7.05	7.04	7.04	7.03				
Specific Conductivity	6.269	6.620	6.788	6.841				
Water Temp (°C)	24.82	24.84	24.86	24.85				
Dissolved Oxygen (mg/L)	.96	1.24	1.23	1.26				
Oxidation Reduction Potentail (ORP) (mV)	-320.1	-327.4	-328.1	-333.5				
Turbidity (NTU)	7.7	3.0	1.5	1.2				
Water Level (ft/TOC)	5.64	5.68	5.69	5.71				

COMMENTS/OBSERVATIONS: Odor from well

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/20
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW22
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 41 °F
Total Well Depth (TWD) = 16.29 1/100 ft
Depth to Ground Water (DGW) = 7.80 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.49 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.36 gallons
4.10 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 7.26 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 (mL)	5500	11000	16500	22000	27500			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	1006	1017	1028	1039	1050			
pH (S.U.)	7.25	7.27	7.28	7.28	7.28			
Specific Conductivity	7.168	7.632	7.928	8.057	8.096			
Water Temp (°C)	22.76	22.78	22.77	22.76	22.71			
Dissolved Oxygen (mg/L)	.18	.11	.09	.11	.09			
Oxidation Reduction Potentail (ORP) (mV)	-60.3	-51.5	-30.7	-33.3	-33.0			
Turbidity (NTU)	17	15	11	7.2	7.4			
Water Level (ft/TOC)	8.20	8.27	8.31	8.32	8.33			

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 14/11/20
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW23
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 25 °F
Total Well Depth (TWD) = 17.15 1/100 ft
Depth to Ground Water (DGW) = 6.79 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.36 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.66 gallons
4.98 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 8.60 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 (mL)	6500	13000	19500	26000	32500			
Pumping Rate (mLPM)	500	500	500	500	500			
TIME (military)	0823	0836	0849	0902	0915			
pH (S.U.)	7.13	7.12	7.10	7.10	7.10			
Specific Conductivity	7.220	7.608	8.469	8.610	8.710			
Water Temp (^{o}C)	23.26	23.44	23.34	23.45	23.50			
Dissolved Oxygen (mg/L)	.50	.40	.50	.48	.46			
Oxidation Reduction Potentail (ORP) (mV)	88.3	106.3	69.4	66.0	61.9			
Turbidity (NTU)	1.7	0.0	0.0	0.0	0.0			
Water Level (ft/TOC)	7.42	7.63	7.72	7.78	7.81			

COMMENTS/OBSERVATIONS:

NATIONVIEW

NATIONVIEW

WATER LEVEL DATA SUMMARY

Project Name:		**Date:**	**11/20/2014**	**Page**	**1**	**of**	**1**
Project Number:	**11.0019**	**Site Name:**		SS-17			
Field Personnel #1	**K. Fuller**	**Field Personnel #2**					
Survey Datum (NGVD)		**Weather (previous 24 hours):**					
Measuring Device	**Heron**						

Well Number	Time (hhmm)	Measuring Point		Depth to Water (ft, TOC)	Elevation of Water (ft, NGVD)
		Description	Elevation (ft, NGVD)		
SS17-MW05	0727			6.31	
SS17-MW07	0731			6.25	
SS17-MW08	0735			6.26	
SS17-MW23	0741			6.79	
SS17-MW22	0743			7.80	
SS17-MW21	0746			6.25	

Notes: **NGVD = National Geodetic Vertical Datum**
TOC = Top of Well Casing

Comments/Observations:

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/04
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW05
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 48 °F
Total Well Depth (TWD) = 16.05 1/100 ft
Depth to Ground Water (DGW) = 6.09 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.96 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.59 gallons
4.78 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.34 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 (mL)	6000	12000	18000	24000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	1102	1114	1126	1138				
pH (S.U.)	6.82	6.82	6.81	6.81				
Specific Conductivity	4.42	4.44	4.46	4.47				
Water Temp (°C)	22.71	22.60	22.58	22.58				
Dissolved Oxygen (mg/L)	2.78	3.50	3.39	3.34				
Oxidation Reduction Potentail (ORP) (mV)	-318.3	-330.1	-325.5	-326.3				
Turbidity (NTU)	14	3.7	0.5	0.2				
Water Level (ft/TOC)	6.22	6.23	6.24	6.24				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/05
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW07
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 33 °F
Total Well Depth (TWD) = 15.18 1/100 ft
Depth to Ground Water (DGW) = 6.05 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.13 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.46 gallons
4.38 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 5.81 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 (mL)	5500	11000	16500	22000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	0718	0729	0740	0751				
pH (S.U.)	7.18	7.17	7.17	7.17				
Specific Conductivity	4.58	4.58	4.59	4.59				
Water Temp (°C)	21.88	21.99	22.07	22.09				
Dissolved Oxygen (mg/L)	10.07	9.93	9.48	8.67				
Oxidation Reduction Potentail (ORP) (mV)	-255.4	-261.8	-263.5	-265.8				
Turbidity (NTU)	11	1.1	0.00	0.00				
Water Level (ft/TOC)	6.22	6.21	6.21	6.21				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/05
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW08
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 36 °F
Total Well Depth (TWD) = 16.68 1/100 ft
Depth to Ground Water (DGW) = 6.03 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.65 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.70 gallons
5.11 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.87 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 (mL)	6500	13000	19500	26000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	0907	0920	0933	0946				
pH (S.U.)	7.04	7.04	7.04	7.04				
Specific Conductivity	3.97	3.98	3.99	3.99				
Water Temp (°C)	21.52	21.49	21.51	21.51				
Dissolved Oxygen (mg/L)	8.68	8.54	8.20	7.75				
Oxidation Reduction Potentail (ORP) (mV)	-321.2	-324.7	-328.6	-330.2				
Turbidity (NTU)	15	2.8	0.0	0.0				
Water Level (ft/TOC)	6.22	6.22	6.22	6.22				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/04
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW21
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 37 °F
Total Well Depth (TWD) = 16.25 1/100 ft
Depth to Ground Water (DGW) = 4.86 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 11.39 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.82 gallons
5.47 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 7.40 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 (mL)	7000	14000	21000	28000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	920	934	948	1002				
pH (S.U.)	6.62	6.61	6.61	6.61				
Specific Conductivity	4.94	5.19	5.28	5.29				
Water Temp (°C)	20.60	20.56	20.56	20.56				
Dissolved Oxygen (mg/L)	.62	.77	.80	.83				
Oxidation Reduction Potentail (ORP) (mV)	-360.8	-363.1	-363.4	-363.8				
Turbidity (NTU)	27	6.5	1.5	0.7				
Water Level (ft/TOC)	5.23	5.33	5.38	5.40				

COMMENTS/OBSERVATIONS: Odor from well

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/04
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW22
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 37 °F
Total Well Depth (TWD) = 16.31 1/100 ft
Depth to Ground Water (DGW) = 7.90 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.41 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.35 gallons
4.04 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 7.26 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 (mL)	5000	10000	15000	20000				
Pumping Rate (mLPM)	500	500	500	500				
TIME (military)	710	720	730	740				
pH (S.U.)	6.97	6.98	6.99	6.99				
Specific Conductivity	8.27	8.51	8.64	8.69				
Water Temp (^{o}C)	19.98	20.16	20.13	20.12				
Dissolved Oxygen (mg/L)	.19	.15	.23	.16				
Oxidation Reduction Potentail (ORP) (mV)	-42.3	-40.1	-45.1	-47.3				
Turbidity (NTU)	24	9.7	5.0	4.3				
Water Level (ft/TOC)	8.40	8.43	8.44	8.45				

COMMENTS/OBSERVATIONS:

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 15/02/04
Field Personnel K. Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS17-MW23
____Upgradient _____Downgradient _____Sidegradient
Weather Conditions Clear
Air Temperature 45 °F
Total Well Depth (TWD) = 17.15 1/100 ft
Depth to Ground Water (DGW) = 6.63 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.52 1/100 ft
1 Casing Volume (OCV) – LWC x .16 = 1.68 gallons
5.05 gal = Standard Evacuation Volume
Method of Well Evacuation Geo Pump
Method of Sample Collection Geo Pump
Total Volume of Water Removed 6.60 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 X MODERATE_____ HIGH_____
Comments/Observations _____

FIELD ANALYSES

Volume Purged (mL)	6250	12500	18750	25000				
Pumping Rate (mLPM)	250	250	250	250				
TIME (military)	1015	1040	1105	1130				
pH (S.U.)	6.89	6.89	6.89	6.89				
Specific Conductivity	6.58	6.86	6.99	7.09				
Water Temp (°C)	20.20	20.05	20.03	20.05				
Dissolved Oxygen (mg/L)	.39	.29	.28	.26				
Oxidation Reduction Potentail (ORP) (mV)	99.5	19.9	13.8	10.1				
Turbidity (NTU)	18	0.0	0.0	0.0				
Water Level (ft/TOC)	7.28	7.66	7.81	7.93				

COMMENTS/OBSERVATIONS: _____

NATIONVIEW

NATIONVIEW

WATER LEVEL DATA SUMMARY

Project Name:		**Date:**	**03-FEB-2015**	**Page**	**1**	**of**	**1**
Project Number:	**11.0019**	**Site Name:**		SS-17			
Field Personnel #1	**K. Fuller**	**Field Personnel #2**					
Survey Datum (NGVD)		**Weather (previous 24 hours):**					
Measuring Device	**Heron**						

Well Number	Time (hhmm)	Measuring Point		Depth to Water (ft, TOC)	Elevation of Water (ft, NGVD)
		Description	Elevation (ft, NGVD)		
SS17-MW05	0805			6.09	
SS17-MW07	0810			6.01	
SS17-MW08	0813			5.91	
SS17-MW23	0817			6.64	
SS17-MW22	0820			7.93	
SS17-MW21	0825			4.88	

Notes: **NGVD = National Geodetic Vertical Datum**
TOC = Top of Well Casing

Comments/Observations:

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW01
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear/Breezy
Air Temperature 78°F
Total Well Depth (TWD) = 16.2 1/100 ft
Depth to Ground Water (DGW) = 6.0 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.2 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.63 gallons
4.89 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1343	1356	1409	1422				
pH (S.U.)	7.24	7.21	7.24	7.23				
Specific Conductivity	3.48	3.28	3.29	3.27				
Water Temp (°C)	22.13	22.09	21.85	21.89				
Dissolved Oxygen (mg/L)	0.37	0.34	0.32	0.33				
Oxidation Reduction Potential (ORP) (mV)	0.2	2.7	4.1	6.8				
Turbidity (NTU)	4.3	0.83	0.57	0.48				
Water Level (ft/TOC)	6.05	6.1	6.15	6.2				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW02
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 80°F
Total Well Depth (TWD) = 17.02 1/100 ft
Depth to Ground Water (DGW) = 4.19 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 12.83 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 2.05 gallons
6.15 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	8000	16000	24000	32000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1241	1257	1313	1329				
pH (S.U.)	7.33	7.33	7.32	7.31				
Specific Conductivity	5.31	5.37	5.33	5.35				
Water Temp (°C)	20.13	20.13	20.11	20.14				
Dissolved Oxygen (mg/L)	.08	.05	.04	.05				
Oxidation Reduction Potential (ORP) (mV)	-34.1	-25.7	-19.5	-18.6				
Turbidity (NTU)	2.91	1.20	1.21	1.90				
Water Level (ft/TOC)	4.53	4.55	4.55	4.55				
COMMENTS/OBSERVATIONS: Sample Time 1330								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW03
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 56°F
Total Well Depth (TWD) = 16.7 1/100 ft
Depth to Ground Water (DGW) = 5.72 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.98 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.75 gallons
5.25 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0730	0743	0756	0809				
pH (S.U.)	6.64	6.63	6.64	6.63				
Specific Conductivity	3.6	3.6	3.6	3.7				
Water Temp (°C)	19.9	20.0	20.1	20.1				
Dissolved Oxygen (mg/L)	0.42	0.31	0.28	0.25				
Oxidation Reduction Potential (ORP) (mV)	-296.0	-296.3	-297.3	-299.1				
Turbidity (NTU)	8.02	8.75	11.12	12.35				
Water Level (ft/TOC)	6.20	6.5	6.55	6.6				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/21
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW04
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Partly Cloudy
Air Temperature 66°F
Total Well Depth (TWD) = 14.0 1/100 ft
Depth to Ground Water (DGW) = 7.8 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 6.2 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 0.99 gallons
2.97 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	4000	8000	12000	16000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1040	1048	1056	1104				
pH (S.U.)	7.12	7.15	7.17	7.18				
Specific Conductivity	3.38	3.25	3.23	3.18				
Water Temp (°C)	20.64	20.73	20.60	20.54				
Dissolved Oxygen (mg/L)	17.23	16.02	15.98	14.67				
Oxidation Reduction Potential (ORP) (mV)	-24.2	-10.5	-10.1	-9.8				
Turbidity (NTU)	12.7	5.86	4.82	3.98				
Water Level (ft/TOC)	7.92	7.95	8.0	8.15				
COMMENTS/OBSERVATIONS: Sample time 1115								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW05
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 45°F
Total Well Depth (TWD) = 16.05 1/100 ft
Depth to Ground Water (DGW) = 6.40 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.65 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.54 gallons
4.63 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6000	12000	18000	24000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0722	0734	0746	0758				
pH (S.U.)	6.75	6.76	6.74	6.72				
Specific Conductivity	3.34	3.33	3.34	3.34				
Water Temp (°C)	23.20	23.23	23.25	23.26				
Dissolved Oxygen (mg/L)	11.34	9.98	9.40	8.75				
Oxidation Reduction Potential (ORP) (mV)	-349.3	-352.0	-354.5	-357.3				
Turbidity (NTU)	56.8	13.2	8.75	5.82				
Water Level (ft/TOC)	6.54	6.54	6.56	6.56				
COMMENTS/OBSERVATIONS: Sample Time 0800								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW06
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 57°F
Total Well Depth (TWD) = 17.1 1/100 ft
Depth to Ground Water (DGW) = 7.15 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.95 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.59 gallons
4.77 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6000	12000	18000	24000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1050	1102	1114	1124				
pH (S.U.)	6.73	6.72	6.72	6.74				
Specific Conductivity	6.24	6.23	6.19	6.19				
Water Temp (°C)	20.43	20.45	20.50	20.53				
Dissolved Oxygen (mg/L)	4.64	4.50	3.82	3.79				
Oxidation Reduction Potential (ORP) (mV)	-343.5	-346.7	-342.9	-341.8				
Turbidity (NTU)	13.05	2.98	3.43	3.95				
Water Level (ft/TOC)	8.05	8.0	7.98	7.5				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW07
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 62°F
Total Well Depth (TWD) = 15.17 1/100 ft
Depth to Ground Water (DGW) = 6.23 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.94 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.43 gallons
4.29 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	5500	11000	16500	22000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0901	0912	0923	0934				
pH (S.U.)	7.02	7.01	6.94	7.00				
Specific Conductivity	2.68	2.69	2.72	2.73				
Water Temp (°C)	23.39	23.36	23.32	23.34				
Dissolved Oxygen (mg/L)	7.40	5.34	5.31	5.27				
Oxidation Reduction Potential (ORP) (mV)	-312.5	-311.4	-311.4	-311.2				
Turbidity (NTU)	9.20	3.36	2.25	0.92				
Water Level (ft/TOC)	6.43	6.43	6.44	6.44				
COMMENTS/OBSERVATIONS: Sample Time 0940								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW08
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 76°F
Total Well Depth (TWD) = 16.68 1/100 ft
Depth to Ground Water (DGW) = 6.23 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.45 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.67 gallons
5.02 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1103	1116	1129	1142				
pH (S.U.)	6.44	6.48	6.50	6.52				
Specific Conductivity	2.46	2.48	2.50	2.51				
Water Temp (°C)	23.08	23.11	23.09	23.09				
Dissolved Oxygen (mg/L)	7.52	15.80	15.99	16.03				
Oxidation Reduction Potential (ORP) (mV)	-301.5	-313.9	-316.4	-317.6				
Turbidity (NTU)	5.70	10.0	6.49	5.45				
Water Level (ft/TOC)	6.40	6.42	6.43	6.43				
COMMENTS/OBSERVATIONS: Sample Time 1145								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW09
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 74°F
Total Well Depth (TWD) = 16.98 1/100 ft
Depth to Ground Water (DGW) = 5.08 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 11.90 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.90 gallons
5.71 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	4000	8000	12000	16000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1008	1016	1024	1032				
pH (S.U.)	7.45	7.43	7.42	7.42				
Specific Conductivity	10.03	8.96	8.85	8.79				
Water Temp (°C)	20.33	20.39	20.40	20.41				
Dissolved Oxygen (mg/L)	.12	.15	.16	.18				
Oxidation Reduction Potential (ORP) (mV)	32.2	29.6	29.4	29.2				
Turbidity (NTU)	8.84	4.34	2.52	2.02				
Water Level (ft/TOC)	5.31	5.32	5.33	5.33				
COMMENTS/OBSERVATIONS: Sample Time 1035								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW10
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear/Breezy
Air Temperature 78°F
Total Well Depth (TWD) = 16.9 1/100 ft
Depth to Ground Water (DGW) = 6.4 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.5 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.68 gallons
5.04 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1118	1131	1144	1157				
pH (S.U.)	7.02	7.03	7.04	7.04				
Specific Conductivity	11.15	11.13	10.97	11.04				
Water Temp (°C)	20.40	20.48	20.45	20.45				
Dissolved Oxygen (mg/L)	0.28	0.25	0.23	0.21				
Oxidation Reduction Potential (ORP) (mV)	15.6	12.2	6.7	3.9				
Turbidity (NTU)	4.26	2.5	1.8	1.2				
Water Level (ft/TOC)	6.8	6.75	6.73	6.7				
COMMENTS/OBSERVATIONS: Sample Time 1210								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW11
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 76°F
Total Well Depth (TWD) = 17.05 1/100 ft
Depth to Ground Water (DGW) = 6.63 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.42 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.67 gallons
5.00 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1118	1131	1144	1157				
pH (S.U.)	6.91	6.89	6.92					
Specific Conductivity	9.19	8.88	8.92					
Water Temp (°C)	20.34	20.37	20.39					
Dissolved Oxygen (mg/L)	.11	.09	.13					
Oxidation Reduction Potential (ORP) (mV)	-36.14	-37.1	-35.9					
Turbidity (NTU)	24.9	10.8	5.26					
Water Level (ft/TOC)	7.48	7.62	7.61					
COMMENTS/OBSERVATIONS: Sample Time 1200								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW13
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 72°F
Total Well Depth (TWD) = 17.18 1/100 ft
Depth to Ground Water (DGW) = 5.71 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 11.47 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.84 gallons
5.51 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	7000	14000	21000	28000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0854	0908	0922	0936				
pH (S.U.)	7.28	7.28	7.28	7.27				
Specific Conductivity	16.23	15.06	14.96	14.45				
Water Temp (°C)	19.84	19.86	19.85	19.85				
Dissolved Oxygen (mg/L)	.07	.06	.06	.05				
Oxidation Reduction Potential (ORP) (mV)	47	44.0	43.2	43.2				
Turbidity (NTU)	19.4	10.9	5.67	4.9				
Water Level (ft/TOC)	6.14	6.24	6.28	6.31				
COMMENTS/OBSERVATIONS: Sample Time 0940								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/21
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW14
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Partly Cloudy
Air Temperature 68°F
Total Well Depth (TWD) = 17.2 1/100 ft
Depth to Ground Water (DGW) = 7.3 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.9 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.58 gallons
4.74 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6000	12000	18000	24000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1205	1217	1229	1241				
pH (S.U.)	7.23	7.21	7.17	7.15				
Specific Conductivity	7.63	7.44	7.26	7.18				
Water Temp (°C)	20.59	20.58	20.45	20.39				
Dissolved Oxygen (mg/L)	5.93	5.89	5.78	5.74				
Oxidation Reduction Potential (ORP) (mV)	-302.7	-309.2	-310.6	-310.9				
Turbidity (NTU)	13.85	3.12	2.48	2.87				
Water Level (ft/TOC)	7.45	7.48	7.40	7.48				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/21
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW16
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Cloudy
Air Temperature 67°F
Total Well Depth (TWD) = 17.07 1/100 ft
Depth to Ground Water (DGW) = 7.48 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 9.59 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.53 gallons
4.60 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6000	12000	18000	24000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1202	1214	1226	1238				
pH (S.U.)	7.13	7.15	7.15	7.16				
Specific Conductivity	6.57	6.56	6.56	6.58				
Water Temp (°C)	18.66	18.65	18.65	18.63				
Dissolved Oxygen (mg/L)	.23	.25	.26	.26				
Oxidation Reduction Potential (ORP) (mV)	-20.6	-21.4	-21.3	-20.4				
Turbidity (NTU)	13.7	3.21	3.10	1.46				
Water Level (ft/TOC)	7.60	7.60	7.61	7.61				
COMMENTS/OBSERVATIONS: Sample Time 1240								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW17
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 66°F
Total Well Depth (TWD) = 15.49 1/100 ft
Depth to Ground Water (DGW) = 6.59 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
4.27 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	5500	11000	16500	22000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0731	0742	0753	0804				
pH (S.U.)	6.92	6.92	6.93	6.93				
Specific Conductivity	5.05	4.82	4.63	4.50				
Water Temp (°C)	18.99	19.01	19.01	19.03				
Dissolved Oxygen (mg/L)	.08	.05	.05	.04				
Oxidation Reduction Potential (ORP) (mV)	-2.2	11.2	14.9	16.5				
Turbidity (NTU)	9.08	2.91	2.07	1.88				
Water Level (ft/TOC)	6.72	6.72	6.73	6.73				
COMMENTS/OBSERVATIONS: Sample Time 0805								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/21
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW18
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Cloudy
Air Temperature 61°F
Total Well Depth (TWD) = 17.21 1/100 ft
Depth to Ground Water (DGW) = 6.50 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.71 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.71 gallons
5.14 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0918	0931	0944	0957				
pH (S.U.)	6.96	6.96	6.96	6.96				
Specific Conductivity	15.25	12.59	12.09	11.89				
Water Temp (°C)	21.09	21.21	21.21	21.26				
Dissolved Oxygen (mg/L)	.22	.24	.23	.21				
Oxidation Reduction Potential (ORP) (mV)	20.1	26.4	27.0	27.7				
Turbidity (NTU)	4.85	3.10	2.44	1.75				
Water Level (ft/TOC)	6.62	6.62	6.63	6.63				
COMMENTS/OBSERVATIONS: Sample Time 1000								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/21
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW19
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Cloudy
Air Temperature 64°F
Total Well Depth (TWD) = 17.07 1/100 ft
Depth to Ground Water (DGW) = 6.51 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.56 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.68 gallons
5.06 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1038	1051	1104	1117				
pH (S.U.)	6.87	6.84	6.83	6.83				
Specific Conductivity	6.06	6.02	6.01	6.01				
Water Temp (°C)	21.35	21.42	21.42	21.47				
Dissolved Oxygen (mg/L)	.13	.13	.16	.17				
Oxidation Reduction Potential (ORP) (mV)	-47.0	-34.5	-34.4	-34.8				
Turbidity (NTU)	3.08	1.55	1.00	1.10				
Water Level (ft/TOC)	6.72	6.74	6.76	6.76				
COMMENTS/OBSERVATIONS: Sample Time 1120								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW20
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 78°F
Total Well Depth (TWD) = 17.21 1/100 ft
Depth to Ground Water (DGW) = 4.81 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 12.40 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.98 gallons
5.95 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	7500	15000	22500	30000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1230	1245	1300	1315				
pH (S.U.)	6.93	6.97	6.97	6.97				
Specific Conductivity	14.26	12.13	12.12	12.07				
Water Temp (°C)	21.23	21.18	21.18	21.17				
Dissolved Oxygen (mg/L)	7.59	4.33	4.10	3.97				
Oxidation Reduction Potential (ORP) (mV)	-272.8	-267.4	-270.1	-269.6				
Turbidity (NTU)	10.6	.76	.85	.70				
Water Level (ft/TOC)	4.96	4.98	4.98	4.99				
COMMENTS/OBSERVATIONS: Sample Time 1320								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW21
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 56°F
Total Well Depth (TWD) = 16.3 1/100 ft
Depth to Ground Water (DGW) = 5.25 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 11.05 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.76 gallons
5.3 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6500	13000	19500	26000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0910	0923	0936	0949				
pH (S.U.)	6.44	6.44	6.45	6.44				
Specific Conductivity	4.62	4.57	4.53	4.54				
Water Temp (°C)	20.99	21.11	21.02	21.06				
Dissolved Oxygen (mg/L)	0.60	0.60	0.62	0.64				
Oxidation Reduction Potential (ORP) (mV)	-370.8	-360.9	-358.8	-357.2				
Turbidity (NTU)	16.7	3.48	3.67	3.90				
Water Level (ft/TOC)	5.48	5.65	5.7	5.75				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/18
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW22
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Sunny
Air Temperature 77°F
Total Well Depth (TWD) = 16.28 1/100 ft
Depth to Ground Water (DGW) = 8.01 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 8.27 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.32 gallons
3.97 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES

Volume Purged (gallons)	5000	10000	15000	20000	25000			
Pumping Rate (ML)	500ML	500ML	500ML	500ML	500ML			
TIME (military)	1255	1305	1315	1325	1335			
pH (S.U.)	6.88	6.89	6.93	6.91	6.93			
Specific Conductivity	8.44	8.65	8.72	8.79	8.84			
Water Temp (°C)	20.69	20.64	20.87	20.82	21.02			
Dissolved Oxygen (mg/L)	.13	.20	.30	.28	.26			
Oxidation Reduction Potential (ORP) (mV)	43.5	7.0	-14.5	-20.7	-22.0			
Turbidity (NTU)	84.2	27.2	13.3	13.0	11.8			
Water Level (ft/TOC)	8.62	8.60	8.52	8.55	8.50			

COMMENTS/OBSERVATIONS: Sample Time 1345

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel K Fuller
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MW23
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Windy
Air Temperature 81°F
Total Well Depth (TWD) = 17.15 1/100 ft
Depth to Ground Water (DGW) = 6.82 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 10.33 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.65 gallons
4.96 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	6250	12500	18750	25000				
Pumping Rate (ML)	250ML	250ML	250ML	250ML				
TIME (military)	1415	1440	1505	1530				
pH (S.U.)	6.90	6.90	6.91	6.90				
Specific Conductivity	8.60	8.55	8.53	8.50				
Water Temp (°C)	21.27	21.40	21.32	21.33				
Dissolved Oxygen (mg/L)	.26	.27	.29	.29				
Oxidation Reduction Potential (ORP) (mV)	-34.5	-39.8	-42.8	-44.1				
Turbidity (NTU)	1.08	1.00	1.07	1.01				
Water Level (ft/TOC)	8.15	8.36	8.43	8.50				
COMMENTS/OBSERVATIONS: Sample Time 1535								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/20
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MWBX01
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear
Air Temperature 77°F
Total Well Depth (TWD) = 12.7 1/100 ft
Depth to Ground Water (DGW) = 8.55 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 4.15 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = .66 gallons
1.99 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	2500	5000	75000	10000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	1220	1225	1230	1235				
pH (S.U.)	6.95	6.96	6.96	6.94				
Specific Conductivity	5.07	5.05	5.02	4.98				
Water Temp (°C)	20.96	20.98	21.00	21.04				
Dissolved Oxygen (mg/L)	7.93	7.56	7.48	7.37				
Oxidation Reduction Potential (ORP) (mV)	-287.7	-289.2	-289.9	-288.9				
Turbidity (NTU)	12.02	2.48	2.67	2.71				
Water Level (ft/TOC)	8.62	8.6	8.55	8.50				
COMMENTS/OBSERVATIONS:								

NATIONVIEW

Field Data Information Log for Groundwater Sampling

Date Started (yr/mo/day) 2015/05/19
Field Personnel S Harrison
Site Name SS-17
Job No. 11-0019
Well ID # SS-17-MWBX02
_____Up-gradient _____Down-gradient _____Side-gradient
Weather Conditions Clear/Breezy
Air Temperature 66°F
Total Well Depth (TWD) = 12.40 1/100 ft
Depth to Ground Water (DGW) = 6.05 1/100 ft
Length of Water Column (LWC) = TWD – DGW = 6.35 1/100 ft
1 Casing Volume (OCV) – LWC x 0.16 = 1.01 gallons
3.048 gal = Standard Evacuation Volume
Method of Well Evacuation Pump
Method of Sample Collection Pump/Bailer
Total Volume of Water Removed ____ gallons

Casing Diameter _ inches
Casing Material
Measuring Point Elevation __ 1/100 ft
Height of Riser (above land surface) ___1/100 ft
Land Surface Elevation_____1/100 ft
Screened Interval _____ft 1/100 ft
Dedicated Pump or Bailer YES___ NO _ Type_____
Steel Guard Pipe Around Casing YES _ NO____
Locking Cap YES _ NO____
Protective Post/Abutment YES _ NO ____
Well Integrity Satisfactory YES __ NO____
Well Yield LOW__ MODERATE _____HIGH_____
Comments/Observations _____
_____
_____

FIELD ANALYSES								
Volume Purged (gallons)	4000	8000	12000	16000				
Pumping Rate (ML)	500ML	500ML	500ML	500ML				
TIME (military)	0808	0816	0824	0832				
pH (S.U.)	6.84	6.82	6.83	6.83				
Specific Conductivity	14.71	14.77	14.82	14.83				
Water Temp (°C)	18.80	18.83	18.85	18.85				
Dissolved Oxygen (mg/L)	0.62	0.40	0.30	0.28				
Oxidation Reduction Potential (ORP) (mV)	5.5	-1.0	-2.1	-2.7				
Turbidity (NTU)	15.9	5.89	3.92	1.96				
Water Level (ft/TOC)	6.25	6.20	6.15	6.05				
COMMENTS/OBSERVATIONS: Sample Time 0845								

NATIONVIEW

NATIONVIEW

WATER LEVEL DATA SUMMARY

Project Name:	**SS-17**	**Date:**	**05/19/2015**	**Page**	**1**	**of**	**2**
Project Number:	**11.0019**	**Site Name:**		HAFB			
Field Personnel #1	**K. Fuller**	**Field Personnel #2**		**S. Harrison**			
Survey Datum (NGVD)		**Weather (previous 24 hours):**					
Measuring Device	**Heron**						

Well Number	Time (hhmm)	Measuring Point		Depth to Water (ft, TOC)	Elevation of Water (ft, NGVD)
		Description	Elevation (ft, NGVD)		
MW05	0953			6.35	
MW07	0956			6.15	
MW08	1000			6.12	
MW-BX-01	1007			8.50	
MW23	1011			6.84	
MW-BX-02	1016			6.03	
MW18	1023			6.45	
MW19	1028			6.47	
MW20	1033			4.79	
MW17	1100			6.58	
MW13	1124			6.22	
MW09	1129			5.34	
MW02	1133			4.25	
MW10	1138			6.38	

Notes: **NGVD = National Geodetic Vertical Datum**
TOC = Top of Well Casing

Comments/Observations:

NATIONVIEW

WATER LEVEL DATA SUMMARY (Contd.)

Project Name:	SS-17	Date:	05/19/2015	Page	2	of	2
Project Number:	11.0019	Site Name: HAFB					

Well Number	Time (hhmm)	Measuring Point		Depth to Water (ft, TOC)	Elevation of Water (ft, NGVD)
		Description	Elevation (ft, NGVD)		
MW11	1140			6.68	
MW22	1144			8.02	
MW06	1158			7.08	
MW03	1201			5.65	
MW01	1204			5.98	
MW21	1206			5.12	
MW04	1210			6.67	
MW14	1215			7.18	
MW16	1230			7.47	

Notes: NGVD = National Geodetic Vertical Datum
TOC = Top of Well Casing

Comments/Observations:

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APPENDIX E

Soil Boring Logs

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HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB301
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 2	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A. Laura Wilson

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	Dense grade gravel					50% recovery 0-4'
	1	2.5 Y 8/3 moist light brown slight odor no gravel soft silty sand	9.7				
	2						
	3		0				
	4	SAA					
	5		0				100% recovery 4-8'
	6	2.5 Y 5/1 gray strong odor moist firm no gravel silty clay	252				
	7			SS-17-	SB301-O7 T=0935 D=7' bgs		
	8			SS-17-	SB301-07A T=0940		
		2.5 Y 5/1 firm gray strong odor moist no gravel silty clay	52				100% recovery 8-12'
	9						
	10						

	Project SS17	HOLE NO. SB301

HTW DRILLING LOG

HOLE NO. SB301		
PROJECT SS-17	INSPECTOR Lance Williams	SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray slight odor very moist soft trace gravel (8-10' bgs) silty clay	18				
	11						
	12	SAA	0				100% recovery 12-16'
	13						
	14	2.5 Y 6/6 firm no odor moist soft trace gravel silty sand	0				
	15						
	16		0				100% recovery 16-18'
	17						
	18	boring terminated at 18' bgs @0942					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS-17	HOLE NO. SB301

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB302
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 1	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A. Lance Wilkins

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	Dense grade gravel					85% recovery 0-4'
	1	2.5 Y 3/3 firm slight odor moist trace gravel	0				
	2						
	3		16.8				
	4	2.5 Y 5/1 firm slight odor gray moist no gravel silty clay					
	5		12				100% recovery 4-8'
	6						
	7	2.5 Y 5/1 firm strong odor gray no gravel very moist silty clay	132.2	SS-17 -	SB302-08 T=0950 D=8' bgs		
	8						
	9		4				50% recovery 8-12'
	10						

	Project SS17	HOLE NO. SB302

HTW DRILLING LOG

HOLE NO. SB302

PROJECT SS-17

INSPECTOR Lance Williams

SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray no gravel soft wet slight odor silty clay	5.4				
	11						
	12						75% recovery 12-16'
	13		2.6				
	14	2.5 Y 5/6 tan no odor moist no gravel soft silty sand	0				
	15						
	16						
	17		0				50% recovery 16-18'
	18	boring terminated at 18' bgs @1010					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project SS-17

HOLE NO. SB302

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB303
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 1	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A Laure Wilson

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	Dense grade gravel					50% recovery 0-4'
	1	2.5 Y 3/3 firm light brown/tan moist no gravel no odor silty sand	0				
	2						
	3		0				
	4	2.5 Y 5/1 gray slight odor moist firm no gravel silty clay					
	5		1.5				100% recovery 4-8'
	6						
	7						
	8	2.5 Y 5/1 gray slight odor moist soft no gravel silty clay	12.1				100% recovery 8-12'
	9			SS-17 -	SB303-09 T=1025 D=8' bgs		
	10						

	Project SS17	HOLE NO. SB303

HTW DRILLING LOG

HOLE NO. SB303

PROJECT SS-17

INSPECTOR Lance Williams

SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray no gravel moist firm strong odor	12.1				
	11	firm 8-10' silty clay					
	12	mild odor from 10-12'					100% recovery 12-16'
	13		1.1				
	14	◄ 2.5 Y 5/6 tan no odor moist soft trace gravel silty sand	0				
	15						
	16						
	17		0				100% recovery 16-18'
	18	◄ boring terminated at 18' bgs @1030					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project SS-17

HOLE NO. SB303

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB304
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 1	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A Lance Wilson

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	Dense grade gravel					60% recovery 0-4'
	1	2.5 Y 8/3 tan moist soft no odor silty sand	0				
	2						
	3		0				
	4	SAA					
	5		0				50% recovery 4-8'
	6						
	7	2.5 Y 5/1 gray moist trace gravel odor firm silty clay	1.2				
	8						
	9		0.9				100% recovery 8-12'
	10						

	Project SS17	HOLE NO. SB304

HTW DRILLING LOG

PROJECT	INSPECTOR	HOLE NO.
SS-17	Lance Williams	SB304
		SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray moist firm no gravel silty clay	12.2	SS-17 -	SB304-10 T=1040 D=10' bgs		
	11						
	12	2.5 Y 5/1 gray slight odor moist no gravel firm silty clay	0.2				100% recovery 12-16'
	13						
	14	no odor	0				
	15						
	16	2.5 Y 6/6 tan moist no odor gravel firm silty sand	0				100% recovery 16-18'
	17						
	18	boring terminated at 18' bgs @1050					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project	HOLE NO.
	SS-17	SB304

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB305
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 1	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A. Lance Witham

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0	Dense grade gravel					50% recovery 0-4'
	1	2.5 Y 8/3 moist light tan firm no odor no gravel silty sand	0				
	2						
	3		0				
	4						
	5		0				100% recovery 4-8'
	6	2.5 Y 5/1 gray no gravel wet odor soft silty clay					
	7		4.3				
	8						
	9	SAA wet	2.1	SS-17 -	SB305-09 T=1055 D=9' bgs		100% recovery 8-12'
	10						

	Project SS17	HOLE NO. SB305

HTW DRILLING LOG

HOLE NO. SB305

PROJECT SS-17

INSPECTOR Lance Williams

SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray wet soft no odor trace gravel silty clay	0				
	11						
	12						100% recovery 12-16'
	13	◄ 2.5 Y 5/6 tan no odor moist trace gravel firm silty sand	0				
	14						
	15		0				
	16						
	17		0				100% recovery 16-18'
	18	◄ boring terminated at 18' bgs @1103					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project SS-17

HOLE NO. SB305

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC	2.DRILLING CONTRACTOR Earthworx	HOLE NO. SB306
		SHEET 1 OF SHEETS 2
3.PROJECT SS-17	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Luis Truijillo	6.MANUFACTURER'S DESIGNATION OF DRILL	
7.SIZES AND TYPE OF DRILLING EQUIPMENT Geoprobe 6620 DT	8.HOLE LOCATION (NM Central State Plane) Northing Easting	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 6-May-15	11.DATE COMPLETED 6-May-15
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) 18'	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A	

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

20.SAMPLES FOR CHEMICAL ANALYSIS: 1	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			A. Lance Witham

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	0–1	Dense grade gravel	0				50% recovery 0-4'
	1–3		0				
	3–5	2.5 Y 8/3 tan dry firm no odor no gravel silty sand	0				75% recovery 4-8'
	5–7		0				
	7–9	2.5 Y 5/1 gray very moist soft slight odor trace gravel silty clay	13.2	SS-17 -	SB306-9 T=1110 D=9' bgs		75% recovery 8-12'
	9–10						

	Project SS17	HOLE NO. SB306

HTW DRILLING LOG

HOLE NO. SB306

PROJECT SS-17

INSPECTOR Lance Williams

SHEET 2 OF SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	2.5 Y 5/1 gray very moist soft slight odor trace gravel silty clay	9.7				
	11						
	12						60% recovery 12-16'
	13		0				
	14						
	15	◀ 2.5 Y 6/6 tan moist soft trace gravel no odor silty sand	0				
	16						
	17		0				100% recovery 16-18'
	18	◀ boring terminated at 18' bgs @1135					
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project SS-17

HOLE NO. SB306

APPENDIX F

Laboratory Analytical Reports

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Southeast ACCUTEST LABORATORIES

Reissue #1
06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA17738

Sampling Date: 08/26/14

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **89**

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.

Norm Farmer
Technical 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 (2937), 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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April 8, 2015

Mr. Tony Lucero
NationView
1641 Vandergrift Road, Bldg. 1266
HAFB, NM 88330

RE: Accutest job FA17738 Reissue

Dear Mr. Lucero,

During a recent Accutest Management initiated 3rd party data review, an issue was discovered with some Ion Chromatography (IC) data. Some anions in associated Quality Control (QC) samples (Calibration Checks and/or Blank Spikes) were incorrectly or inconsistently integrated. These integration issues were isolated to a specific analyst. Accutest Southeast performed a comprehensive review of all IC data reported by this analyst. As a result of this review it was determined that some IC data for this job needed to be footnoted. Since only QC samples were impacted by these integration issues (no sample results changed), only the potential uncertainty associated with a reported result is impacted.

Anions analyzed by Ion Chromatography via EPA 300 or SW846 9056A have method specified quality control limits of 90-110%. Revised quality control data for the samples in question had a maximum recovery of 125% for Sulfate. Footnote applied to fractions 1, 2, and 3.

The final report for job number FA17738 has been edited to reflect these changes.

Accutest apologizes for any inconvenience this may have caused and has taken corrective measures to prevent future issues. Please feel free to contact us if we can be of further assistance.

Sincerely,

Rick Watkins
Laboratory Director
Accutest Laboratories, SE

Norm Farmer
Technical Director
Accutest Laboratories, SE

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Accutest LabLink@160286 12:27 08-Jun-2015

Sample Summary

Nation View

Job No: FA17738

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA17738-1	08/26/14	12:05	KFBP	08/27/14	AQ	Ground Water	SS17-MW21
FA17738-1F	08/26/14	12:05	KFBP	08/27/14	AQ	Groundwater Filtered	SS17-MW21
FA17738-2	08/26/14	10:45	KFBP	08/27/14	AQ	Ground Water	SS17-MW22
FA17738-2F	08/26/14	10:45	KFBP	08/27/14	AQ	Groundwater Filtered	SS17-MW22
FA17738-3	08/26/14	09:25	KFBP	08/27/14	AQ	Ground Water	SS17-MW23
FA17738-3F	08/26/14	09:25	KFBP	08/27/14	AQ	Groundwater Filtered	SS17-MW23
FA17738-4	08/26/14	00:00	KFBP	08/27/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA17738
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/26/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17738-1	**SS17-MW21**					
Benzene		31300	500	120	ug/l	SW846 8260B
Ethylbenzene		3800	500	140	ug/l	SW846 8260B
n-Propylbenzene		193 J	500	120	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1140	1000	120	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		422 J	1000	100	ug/l	SW846 8260B
Toluene		26000	500	100	ug/l	SW846 8260B
m,p-Xylene		10400	1000	240	ug/l	SW846 8260B
o-Xylene		3450	500	100	ug/l	SW846 8260B
Benzoic Acid [a]		145 J	480	95	ug/l	SW846 8270D
2,4-Dimethylphenol [a]		55.3	48	4.8	ug/l	SW846 8270D
2-Methylphenol [a]		574	48	4.8	ug/l	SW846 8270D
3&4-Methylphenol [a]		1040	95	22	ug/l	SW846 8270D
Phenol [a]		1340	95	9.5	ug/l	SW846 8270D
1-Methylnaphthalene [a]		38.4 J	48	4.8	ug/l	SW846 8270D
2-Methylnaphthalene [a]		69.7	48	5.1	ug/l	SW846 8270D
Naphthalene [a]		311	48	4.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)		168	50	25	mg/l	SW846 8015C
TPH (C10-C22)		7.99	0.48	0.19	mg/l	SW846 8015C
TPH (> C22-C36)		0.203 J	0.48	0.19	mg/l	SW846 8015C
Iron		375	300	17	ug/l	SW846 6010C
Manganese		38.2	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		271	120	120	mg/l	SM5210 B-11
Chemical Oxygen Demand		611	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		74.9	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [b]		0.28 J	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [c]		0.098 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		1.1	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		4.3	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3680	200	20	mg/l	SM2540 C-11
Sulfate [d]		2410	50	15	mg/l	EPA 300/SW846 9056A
FA17738-1F	**SS17-MW21**					
Manganese		34.8	15	1.0	ug/l	SW846 6010C
FA17738-2	**SS17-MW22**					
Benzene		0.25 J	1.0	0.24	ug/l	SW846 8260B
1,2-Dichloroethane		3.0	1.0	0.24	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0755 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.291	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.280	0.048	0.019	mg/l	SW846 8015C
Iron		6060	300	17	ug/l	SW846 6010C

Summary of Hits

Job Number: FA17738
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/26/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Manganese		5040	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		30.2	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		4.4	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [b]		3.3	1.3	0.32	mg/l	SM3500FE B-11
Iron, Ferrous [c]		2.8	1.0	0.30	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.41	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		7640	500	50	mg/l	SM2540 C-11
Sulfate [d]		6590	200	60	mg/l	EPA 300/SW846 9056A
FA17738-2F	**SS17-MW22**					
Manganese		4680	15	1.0	ug/l	SW846 6010C
FA17738-3	**SS17-MW23**					
Benzene		0.59 J	1.0	0.24	ug/l	SW846 8260B
o-Xylene		0.34 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0720 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.28	0.19	0.076	mg/l	SW846 8015C
TPH (> C22-C36)		0.525	0.19	0.076	mg/l	SW846 8015C
Iron		108 J	300	17	ug/l	SW846 6010C
Manganese		2130	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		55.4	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [b]		0.11 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.19	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		13.0	5.0	2.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		1.3	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		6730	500	50	mg/l	SM2540 C-11
Sulfate [d]		4370	100	30	mg/l	EPA 300/SW846 9056A
FA17738-3F	**SS17-MW23**					
Manganese		2040	15	1.0	ug/l	SW846 6010C
FA17738-4	**TRIP BLANK**					
Toluene		1.5	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.
(d) Associated CCV and BS outside control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW21		
Lab Sample ID:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0079112.D	500	09/04/14	RB	n/a	n/a	VN3476
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 [a]	ND	10000	3200	ug/l	
107-13-1	Acrylonitrile	ND	5000	1000	ug/l	
71-43-2	Benzene	31300	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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	3800	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	193	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	1140	1000	120	ug/l	
108-67-8	1,3,5-Trimethylbenzene	422	1000	100	ug/l	J
127-18-4	Tetrachloroethylene	ND	500	130	ug/l	
108-88-3	Toluene	26000	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	10400	1000	240	ug/l	
95-47-6	o-Xylene	3450	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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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%		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-MW21		
Lab Sample ID:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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]	X036179.D	10	08/30/14	FS	08/28/14	OP52896	SX1698
Run #2 [a]	U046456.D	20	09/03/14	NJ	08/28/14	OP52896	SU2135

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	145	480	95	ug/l	J
95-57-8	2-Chlorophenol	ND	48	4.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	48	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	55.3	48	4.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	52	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	95	19	ug/l	
95-48-7	2-Methylphenol	574	48	4.8	ug/l	
	3&4-Methylphenol	1040 [b]	95	22	ug/l	
88-75-5	2-Nitrophenol	ND	48	5.7	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	1340 [b]	95	9.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	9.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	5.3	ug/l	
83-32-9	Acenaphthene	ND	48	4.8	ug/l	
208-96-8	Acenaphthylene	ND	48	4.8	ug/l	
62-53-3	Aniline	ND	48	9.5	ug/l	
120-12-7	Anthracene	ND	48	5.9	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	6.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	6.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	6.8	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	7.7	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	4.9	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	48	6.4	ug/l	
85-68-7	Butyl benzyl phthalate	ND	48	7.7	ug/l	
100-51-6	Benzyl Alcohol	ND	48	9.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	5.3	ug/l	
106-47-8	4-Chloroaniline	ND	48	4.8	ug/l	
86-74-8	Carbazole	ND	48	5.9	ug/l	
218-01-9	Chrysene	ND	48	6.9	ug/l	

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-MW21		
Lab Sample ID:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	48	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.6	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	48	5.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	4.8	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	6.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	4.8	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	4.8	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	5.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	6.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	8.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	7.7	ug/l	
132-64-9	Dibenzofuran	ND	48	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	48	9.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	48	9.5	ug/l	
84-66-2	Diethyl phthalate	ND	48	9.5	ug/l	
131-11-3	Dimethyl phthalate	ND	48	6.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	15	ug/l	
206-44-0	Fluoranthene	ND	48	6.7	ug/l	
86-73-7	Fluorene	ND	48	4.8	ug/l	
118-74-1	Hexachlorobenzene	ND	48	6.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	48	4.8	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	9.5	ug/l	
67-72-1	Hexachloroethane	ND	48	4.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	6.0	ug/l	
78-59-1	Isophorone	ND	48	4.8	ug/l	
90-12-0	1-Methylnaphthalene	38.4	48	4.8	ug/l	J
91-57-6	2-Methylnaphthalene	69.7	48	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	48	11	ug/l	
99-09-2	3-Nitroaniline	ND	48	5.8	ug/l	
100-01-6	4-Nitroaniline	ND	48	7.2	ug/l	
91-20-3	Naphthalene	311	48	4.8	ug/l	
98-95-3	Nitrobenzene	ND	48	4.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	9.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	48	4.8	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	5.1	ug/l	
85-01-8	Phenanthrene	ND	48	5.7	ug/l	
129-00-0	Pyrene	ND	48	7.8	ug/l	
110-86-1	Pyridine	ND	95	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	4.8	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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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%	0% c	14-67%
4165-62-2	Phenol-d5	31%	0% c	10-50%
118-79-6	2,4,6-Tribromophenol	90%	0% c	33-118%
4165-60-0	Nitrobenzene-d5	93%	0% c	42-108%
321-60-8	2-Fluorobiphenyl	88%	0% c	40-106%
1718-51-0	Terphenyl-d14	95%	0% c	39-121%

(a) Dilution required due to matrix interference.
(b) Result is from Run# 2
(c) 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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129842.D	500	08/29/14	JG	n/a	n/a	GCD5317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	168	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	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-MW21		
Lab Sample ID:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	WW2342.D	10	09/08/14	SJL	09/02/14	OP52936	GWW89
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)	7.99	0.48	0.19	mg/l	
	TPH (> C22-C36)	0.203	0.48	0.19	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	375	300	17	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	38.2	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-1	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	271	120	120	mg/l	60	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	611	20	5.3	mg/l	1	08/28/14 08:10	LE	SM5220 C-11
Hydrogen Sulfide	74.9	1.0	0.50	mg/l	1	08/27/14 13:05	LE	SM4500S2- F-11
Iron, Ferric [a]	0.28 J	0.40	0.047	mg/l	1	09/03/14 19:38	LM	SM3500FE B-11
Iron, Ferrous [b]	0.098 J	0.10	0.030	mg/l	1	08/27/14 15:00	JC	SM3500FE B-11
Nitrogen, Ammonia	1.1	0.10	0.030	mg/l	1	09/10/14 16:32	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	08/27/14 14:53	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	4.3	0.53	0.17	mg/l	1	09/11/14 13:16	DM	EPA 351.2
Solids, Total Dissolved	3680	200	20	mg/l	2	08/27/14 13:20	KC	SM2540 C-11
Sulfate [d]	2410	50	15	mg/l	25	08/27/14 14:53	VK	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.
(d) Associated CCV and BS outside control limits.

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:	FA17738-1F	**Date Sampled:**	08/26/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	34.8	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0079111.D	1	09/04/14	RB	n/a	n/a	VN3476
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 [a]	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.25	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	3.0	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-MW22		
Lab Sample ID:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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:	SS17-MW22		
Lab Sample ID:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	X036180.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	ND	4.8	0.48	ug/l	
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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	25%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	61%		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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129843.D	1	08/29/14	JG	n/a	n/a	GCD5317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0755	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		70-131%
98-08-8	aaa-Trifluorotoluene	91%		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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	WW2351.D	1	09/09/14	SJL	09/02/14	OP52936	GWW90
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)	0.291	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.280	0.048	0.019	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 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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6060	300	17	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5040	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-2	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		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	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	30.2	20	5.3	mg/l	1	08/28/14 07:45	LE	SM5220 C-11
Hydrogen Sulfide	4.4	1.0	0.50	mg/l	1	08/27/14 13:05	LE	SM4500S2- F-11
Iron, Ferric [a]	3.3	1.3	0.32	mg/l	1	09/03/14 19:43	LM	SM3500FE B-11
Iron, Ferrous [b]	2.8	1.0	0.30	mg/l	10	08/27/14 15:00	JC	SM3500FE B-11
Nitrogen, Ammonia	0.41	0.10	0.030	mg/l	1	09/10/14 16:33	JC	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	08/27/14 15:10	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.1	0.53	0.17	mg/l	1	09/11/14 12:42	DM	EPA 351.2
Solids, Total Dissolved	7640	500	50	mg/l	5	08/27/14 13:20	KC	SM2540 C-11
Sulfate [d]	6590	200	60	mg/l	100	08/27/14 15:10	VK	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.
(d) Associated CCV and BS outside control limits.

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:	FA17738-2F	**Date Sampled:**	08/26/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4680	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0079109.D	1	09/04/14	RB	n/a	n/a	VN3476
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 [a]	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.59	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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	0.34	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-MW23		
Lab Sample ID:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	102%		79-125%
2037-26-5	Toluene-D8	100%		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

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	X036181.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	ND	4.8	0.48	ug/l	
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-MW23		
Lab Sample ID:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	31%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	83%		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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129844.D	1	08/29/14	JG	n/a	n/a	GCD5317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0720	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		70-131%
98-08-8	aaa-Trifluorotoluene	93%		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-MW23		
Lab Sample ID:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
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	WW2365.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92
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)	1.28	0.19	0.076	mg/l	
	TPH (> C22-C36)	0.525	0.19	0.076	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	108 J	300	17	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2130	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-3	**Date Sampled:**	08/26/14
Matrix:	AQ - Ground Water	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	8.0 U	8.0	8.0	mg/l	4	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	55.4	20	5.3	mg/l	1	08/28/14 07:45	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/27/14 13:05	LE	SM4500S2- F-11
Iron, Ferric [a]	0.11 J	0.40	0.047	mg/l	1	09/03/14 19:48	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	08/27/14 15:00	JC	SM3500FE B-11
Nitrogen, Ammonia	0.19	0.10	0.030	mg/l	1	09/10/14 16:34	JC	EPA 350.1
Nitrogen, Nitrate	13.0	5.0	2.5	mg/l	50	08/27/14 15:27	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	09/11/14 12:41	DM	EPA 351.2
Solids, Total Dissolved	6730	500	50	mg/l	5	08/27/14 13:20	KC	SM2540 C-11
Sulfate [c]	4370	100	30	mg/l	50	08/27/14 15:27	VK	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Associated CCV and BS outside control limits.

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:	FA17738-3F	**Date Sampled:**	08/26/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/27/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2040	15	1.0	ug/l	1	09/03/14	09/03/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11858
(2) Prep QC Batch: MP27803

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:	FA17738-4	**Date Sampled:**	08/26/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/27/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0079110.D	1	09/04/14	RB	n/a	n/a	VN3476
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 [a]	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:	TRIP BLANK		
Lab Sample ID:	FA17738-4	**Date Sampled:**	08/26/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/27/14
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	1.5	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:	FA17738-4	**Date Sampled:**	08/26/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/27/14
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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA17738

Page: 1 of 1
Project No: 11.0019
COC Number(1): 08262014
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	26-Aug-14	1205	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							1	1
SS17-MW22	SS17-MW22	26-Aug-14	1045	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	2
SS17-MW23	SS17-MW23	26-Aug-14	925	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							3	3
TRIP BLANK	Field QC	26-Aug-14		-	TB		AQ	1	[1]																4	1
				-																						
				-																						
				-																						
				-																						
				-																						

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]	8/26/2014		1. FX		09:30
2. FX			2. J-Lopez (ALS)	8-27-14	
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: 770949809283
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 (-c)
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, SD = 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 3.2 3.0

4.1
4

FA17738: Chain of Custody
Page 1 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA17738 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 8-27-14 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

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

AIRBILL NUMBERS: 7709 4980 9283

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
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6 2.8 2.6
- [ ] CORRECTED TEMPS: 3.0 3.2 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
- [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
- [ ] 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: FOR SAMPLE # 1 COC reads SS-17 MW-21 at 12:05 LABELS reads SS-17 MW-23 at 12:05

TECHNICIAN SIGNATURE/DATE 8-27-14 REVIEWER SIGNATURE/DATE 08-27-14

RS 04/14

receipt confirmation 041514.xls

4.1

4

FA17738: Chain of Custody

Page 2 of 5

From: (575) 921-1699
Tony Lucero
NATIONVIEW
BLG 1268 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

JH2201060903ov

Ship Date: 26AUG14
ActWgt: 40.0 LB
CAD: 100026931/INET3550

Delivery Address Bar Code

Ref # 11-0019.73.010
Invoice # 11-0019.73.010
PO # 11-0019.73.010
Dept # 11-0319.73.010

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

1 of 3

WED - 27 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 7709 4980 9283
0201
MASTER
XH TIXA

32811
FL-US
MCO

5223 MSOF28ACS

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From: (575) 921-1899
Tony Lucero
NATCONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14201406903/v

Ship Date: 26AUG14
Act/Wgt: 40.3 LB
CAD: 103026931/NET3550

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 # 11-0019.73.010

2 of 3

MPS# 7709 4980 9700
0263

Mstr# 7709 4980 9283 9201

WED - 27 AUG 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

S223150F29AC9

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From: (575) 921-1899
Tony Lunero
NATIONVIEW
BLG 1269 Vandegrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J142C 4361903w

Ship Date: 26AUG14
ActWgt: 40.0 LB
CAD: 100026931/INET3550

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

3 of 3

WED - 27 AUG 10:30A
PRIORITY OVERNIGHT

MPS# 7709 4980 9478
9263
Mstr# 7709 4980 9283
9261

XH TIXA

32811
FL-US
MCO

5220/MCO5/8A39

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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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-MB	N0079093.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-MB	N0079093.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-MB	N0079093.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	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	98%	83-118%

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-BS	N0079091.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	153	122	50-147
107-02-8	Acrolein	125	211	169*	31-154
107-13-1	Acrylonitrile	125	99.2	79	58-126
71-43-2	Benzene	25	22.5	90	81-122
108-86-1	Bromobenzene	25	22.4	90	80-121
74-97-5	Bromochloromethane	25	21.1	84	76-123
75-27-4	Bromodichloromethane	25	22.5	90	79-123
75-25-2	Bromoform	25	21.0	84	66-123
104-51-8	n-Butylbenzene	25	23.9	96	79-126
135-98-8	sec-Butylbenzene	25	25.8	103	83-133
98-06-6	tert-Butylbenzene	25	24.2	97	80-133
108-90-7	Chlorobenzene	25	24.6	98	82-124
75-00-3	Chloroethane	25	26.6	106	62-144
67-66-3	Chloroform	25	22.2	89	80-124
95-49-8	o-Chlorotoluene	25	23.8	95	81-127
106-43-4	p-Chlorotoluene	25	25.1	100	83-130
110-75-8	2-Chloroethyl vinyl ether	125	137	110	56-122
75-15-0	Carbon disulfide	25	24.0	96	66-148
56-23-5	Carbon tetrachloride	25	23.0	92	76-136
75-34-3	1,1-Dichloroethane	25	22.6	90	81-122
75-35-4	1,1-Dichloroethylene	25	24.7	99	78-137
563-58-6	1,1-Dichloropropene	25	24.5	98	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	20.4	82	64-123
106-93-4	1,2-Dibromoethane	25	22.3	89	75-120
107-06-2	1,2-Dichloroethane	25	22.0	88	75-125
78-87-5	1,2-Dichloropropane	25	22.9	92	76-124
142-28-9	1,3-Dichloropropane	25	22.2	89	80-118
594-20-7	2,2-Dichloropropane	25	25.1	100	74-139
124-48-1	Dibromochloromethane	25	22.7	91	78-122
75-71-8	Dichlorodifluoromethane	25	31.2	125	42-167
156-59-2	cis-1,2-Dichloroethylene	25	22.7	91	78-120
10061-01-5	cis-1,3-Dichloropropene	25	22.3	89	75-118
541-73-1	m-Dichlorobenzene	25	26.9	108	84-125
95-50-1	o-Dichlorobenzene	25	24.1	96	82-124
106-46-7	p-Dichlorobenzene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.4	90	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-BS	N0079091.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.7	103	80-120
100-41-4	Ethylbenzene	25	26.3	105	81-121
591-78-6	2-Hexanone	125	127	102	61-129
87-68-3	Hexachlorobutadiene	25	23.1	92	75-142
98-82-8	Isopropylbenzene	25	26.6	106	83-132
99-87-6	p-Isopropyltoluene	25	25.7	103	79-130
108-10-1	4-Methyl-2-pentanone	125	113	90	66-122
74-83-9	Methyl bromide	25	31.9	128	59-143
74-87-3	Methyl chloride	25	31.7	127	50-159
74-95-3	Methylene bromide	25	21.9	88	78-119
75-09-2	Methylene chloride	25	25.3	101	69-135
78-93-3	Methyl ethyl ketone	125	129	103	56-143
1634-04-4	Methyl Tert Butyl Ether	25	20.4	82	72-117
91-20-3	Naphthalene	25	22.5	90	63-132
103-65-1	n-Propylbenzene	25	25.5	102	82-133
100-42-5	Styrene	25	23.6	94	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	23.2	93	77-122
71-55-6	1,1,1-Trichloroethane	25	23.5	94	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	21.0	84	72-120
79-00-5	1,1,2-Trichloroethane	25	21.9	88	76-119
87-61-6	1,2,3-Trichlorobenzene	25	21.0	84	68-131
96-18-4	1,2,3-Trichloropropane	25	21.3	85	77-120
120-82-1	1,2,4-Trichlorobenzene	25	23.4	94	73-129
95-63-6	1,2,4-Trimethylbenzene	25	23.3	93	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.1	92	79-120
127-18-4	Tetrachloroethylene	25	24.2	97	76-135
108-88-3	Toluene	25	23.2	93	80-120
79-01-6	Trichloroethylene	25	24.7	99	81-126
75-69-4	Trichlorofluoromethane	25	27.3	109	71-156
75-01-4	Vinyl chloride	25	28.4	114	69-159
108-05-4	Vinyl Acetate	125	170	136	43-154
	m,p-Xylene	50	57.2	114	79-126
95-47-6	o-Xylene	25	25.3	101	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3476-BS	N0079091.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17860-1MS	N0079113.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1MSD	N0079114.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1	N0079104.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Compound	FA17860-1 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	90.6	72	125	88.4	71	2	50-147/21
107-02-8	Acrolein	20	U	125	197	158*	125	169	135	15	31-154/29
107-13-1	Acrylonitrile	10	U	125	127	102	125	124	99	2	58-126/16
71-43-2	Benzene	1.0	U	25	24.4	98	25	21.0	84	15*	81-122/14
108-86-1	Bromobenzene	1.0	U	25	23.9	96	25	21.6	86	10	80-121/14
74-97-5	Bromochloromethane	1.0	U	25	23.3	93	25	20.7	83	12	76-123/14
75-27-4	Bromodichloromethane	1.0	U	25	23.4	94	25	21.2	85	10	79-123/19
75-25-2	Bromoform	1.0	U	25	19.3	77	25	16.7	67	14	66-123/21
104-51-8	n-Butylbenzene	1.0	U	25	23.4	94	25	20.3	81	14	79-126/16
135-98-8	sec-Butylbenzene	1.0	U	25	26.5	106	25	23.2	93	13	83-133/16
98-06-6	tert-Butylbenzene	1.0	U	25	25.2	101	25	22.2	89	13	80-133/16
108-90-7	Chlorobenzene	1.0	U	25	25.9	104	25	22.8	91	13	82-124/14
75-00-3	Chloroethane	2.0	U	25	27.5	110	25	23.3	93	17	62-144/20
67-66-3	Chloroform	1.0	U	25	24.7	99	25	21.2	85	15	80-124/15
95-49-8	o-Chlorotoluene	1.0	U	25	25.2	101	25	22.7	91	10	81-127/15
106-43-4	p-Chlorotoluene	1.0	U	25	26.2	105	25	23.0	92	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	24.0	96	25	19.6	78	20	66-148/23
56-23-5	Carbon tetrachloride	1.0	U	25	25.7	103	25	21.7	87	17	76-136/23
75-34-3	1,1-Dichloroethane	1.0	U	25	24.3	97	25	21.3	85	13	81-122/15
75-35-4	1,1-Dichloroethylene	1.0	U	25	26.0	104	25	21.8	87	18	78-137/18
563-58-6	1,1-Dichloropropene	1.0	U	25	26.3	105	25	22.2	89	17*	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	15.8	63*	25	17.5	70	10	64-123/18
106-93-4	1,2-Dibromoethane	1.0	U	25	23.2	93	25	21.7	87	7	75-120/13
107-06-2	1,2-Dichloroethane	1.0	U	25	24.8	99	25	22.4	90	10	75-125/14
78-87-5	1,2-Dichloropropane	1.0	U	25	24.8	99	25	21.8	87	13	76-124/14
142-28-9	1,3-Dichloropropane	1.0	U	25	23.6	94	25	21.7	87	8	80-118/13
594-20-7	2,2-Dichloropropane	1.0	U	25	25.9	104	25	21.7	87	18*	74-139/17
124-48-1	Dibromochloromethane	1.0	U	25	22.2	89	25	19.9	80	11	78-122/19
75-71-8	Dichlorodifluoromethane	2.0	U	25	34.2	137	25	28.3	113	19	42-167/19
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	24.1	96	25	21.5	86	11	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	21.2	85	25	18.6	74*	13	75-118/23
541-73-1	m-Dichlorobenzene	1.0	U	25	27.8	111	25	24.8	99	11	84-125/14
95-50-1	o-Dichlorobenzene	1.0	U	25	24.9	100	25	23.0	92	8	82-124/14
106-46-7	p-Dichlorobenzene	1.0	U	25	26.3	105	25	23.6	94	11	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	24.0	96	25	20.4	82	16	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17860-1MS	N0079113.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1MSD	N0079114.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1	N0079104.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Compound	FA17860-1 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	24.6	98	25	21.8	87	12	80-120/22
100-41-4	Ethylbenzene	1.0	U	25	27.6	110	25	23.9	96	14	81-121/14
591-78-6	2-Hexanone	10	U	125	121	97	125	114	91	6	61-129/18
87-68-3	Hexachlorobutadiene	2.0	U	25	17.6	70*	25	16.4	66*	7	75-142/19
98-82-8	Isopropylbenzene	1.0	U	25	27.7	111	25	23.7	95	16*	83-132/15
99-87-6	p-Isopropyltoluene	1.0	U	25	25.8	103	25	22.6	90	13	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0	U	125	123	98	125	116	93	6	66-122/16
74-83-9	Methyl bromide	2.0	U	25	34.3	137	25	29.4	118	15	59-143/19
74-87-3	Methyl chloride	2.0	U	25	30.7	123	25	26.6	106	14	50-159/19
74-95-3	Methylene bromide	2.0	U	25	23.9	96	25	22.0	88	8	78-119/14
75-09-2	Methylene chloride	5.0	U	25	26.6	106	25	24.2	97	9	69-135/16
78-93-3	Methyl ethyl ketone	5.0	U	125	111	89	125	104	83	7	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	21.5	86	25	20.2	81	6	72-117/14
91-20-3	Naphthalene	5.0	U	25	14.8	59*	25	17.5	70	17	63-132/25
103-65-1	n-Propylbenzene	1.0	U	25	26.8	107	25	23.3	93	14	82-133/15
100-42-5	Styrene	1.0	U	25	21.8	87	25	18.6	74*	16	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	24.8	99	25	22.3	89	11	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0	U	25	25.2	101	25	21.6	86	15	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	22.4	90	25	21.2	85	6	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0	U	25	23.2	93	25	21.4	86	8	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	14.0	56*	25	15.6	62*	11	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0	U	25	22.4	90	25	21.6	86	4	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	17.9	72*	25	17.9	72*	0	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	23.8	95	25	20.7	83	14	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	23.1	92	25	20.1	80	14	79-120/19
127-18-4	Tetrachloroethylene	1.0	U	25	25.2	101	25	21.6	86	15	76-135/16
108-88-3	Toluene	1.0	U	25	23.8	95	25	20.7	83	14	80-120/14
79-01-6	Trichloroethylene	1.0	U	25	26.7	107	25	22.9	92	15	81-126/15
75-69-4	Trichlorofluoromethane	2.0	U	25	29.3	117	25	24.7	99	17	71-156/21
75-01-4	Vinyl chloride	1.0	U	25	29.0	116	25	24.5	98	17	69-159/18
108-05-4	Vinyl Acetate	10	U	125	240	192*	125	220	176*	9	43-154/14
	m,p-Xylene	2.0	U	50	59.3	119	50	51.3	103	14	79-126/15
95-47-6	o-Xylene	1.0	U	25	26.1	104	25	22.6	90	14	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17860-1MS	N0079113.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1MSD	N0079114.D	1	09/04/14	RB	n/a	n/a	VN3476
FA17860-1	N0079104.D	1	09/04/14	RB	n/a	n/a	VN3476

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17738-1, FA17738-2, FA17738-3, FA17738-4

CAS No.	Surrogate Recoveries	MS	MSD	FA17860-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	105%	103%	79-125%
2037-26-5	Toluene-D8	100%	100%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MB	X036168.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MB	X036168.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MB	X036168.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-67%
4165-62-2	Phenol-d5	31%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	80%	42-108%
321-60-8	2-Fluorobiphenyl	77%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-BS	X036167.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	10.6	11	10-69
95-57-8	2-Chlorophenol	50	34.4	69	52-98
59-50-7	4-Chloro-3-methyl phenol	50	35.0	70	54-103
120-83-2	2,4-Dichlorophenol	50	33.2	66	53-103
105-67-9	2,4-Dimethylphenol	50	31.0	62	43-90
51-28-5	2,4-Dinitrophenol	100	72.6	73	44-112
534-52-1	4,6-Dinitro-o-cresol	100	93.8	94	66-121
95-48-7	2-Methylphenol	50	30.2	60	43-90
	3&4-Methylphenol	100	53.3	53	36-88
88-75-5	2-Nitrophenol	50	34.4	69	53-102
100-02-7	4-Nitrophenol	100	27.2	27	18-62
87-86-5	Pentachlorophenol	100	86.3	86	61-115
108-95-2	Phenol	50	12.7	25	19-56
95-95-4	2,4,5-Trichlorophenol	50	40.3	81	62-109
88-06-2	2,4,6-Trichlorophenol	50	39.3	79	59-107
83-32-9	Acenaphthene	50	41.0	82	61-107
208-96-8	Acenaphthylene	50	41.2	82	60-104
62-53-3	Aniline	50	32.1	64	47-100
120-12-7	Anthracene	50	43.1	86	65-108
92-87-5	Benzidine	50	29.3	59	25-99
56-55-3	Benzo(a)anthracene	50	43.2	86	66-111
50-32-8	Benzo(a)pyrene	50	41.2	82	62-107
205-99-2	Benzo(b)fluoranthene	50	41.6	83	65-114
191-24-2	Benzo(g,h,i)perylene	50	43.2	86	66-116
207-08-9	Benzo(k)fluoranthene	50	43.4	87	65-114
101-55-3	4-Bromophenyl phenyl ether	50	34.6	69	65-109
85-68-7	Butyl benzyl phthalate	50	42.2	84	65-112
100-51-6	Benzyl Alcohol	50	26.8	54	46-94
91-58-7	2-Chloronaphthalene	50	36.5	73	57-103
106-47-8	4-Chloroaniline	50	35.2	70	49-105
86-74-8	Carbazole	50	42.4	85	59-113
218-01-9	Chrysene	50	44.1	88	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	33.5	67	51-102
111-44-4	bis(2-Chloroethyl)ether	50	35.1	70	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	35.3	71	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	38.1	76	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-BS	X036167.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	28.1	56	48-97
122-66-7	1,2-Diphenylhydrazine	50	41.4	83	61-110
541-73-1	1,3-Dichlorobenzene	50	27.6	55	45-95
106-46-7	1,4-Dichlorobenzene	50	29.8	60	45-98
121-14-2	2,4-Dinitrotoluene	50	39.1	78	61-110
606-20-2	2,6-Dinitrotoluene	50	39.1	78	63-108
91-94-1	3,3'-Dichlorobenzidine	50	42.7	85	46-117
53-70-3	Dibenzo(a,h)anthracene	50	43.8	88	66-119
132-64-9	Dibenzofuran	50	40.1	80	61-106
84-74-2	Di-n-butyl phthalate	50	40.6	81	65-107
117-84-0	Di-n-octyl phthalate	50	43.6	87	62-118
84-66-2	Diethyl phthalate	50	40.0	80	64-108
131-11-3	Dimethyl phthalate	50	40.1	80	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.6	85	61-117
206-44-0	Fluoranthene	50	40.6	81	63-106
86-73-7	Fluorene	50	42.8	86	62-108
118-74-1	Hexachlorobenzene	50	40.8	82	63-108
87-68-3	Hexachlorobutadiene	50	27.9	56	42-102
77-47-4	Hexachlorocyclopentadiene	50	22.6	45	39-102
67-72-1	Hexachloroethane	50	27.3	55	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.6	79	64-119
78-59-1	Isophorone	50	32.9	66	43-87
90-12-0	1-Methylnaphthalene	50	31.8	64	53-102
91-57-6	2-Methylnaphthalene	50	32.1	64	51-102
88-74-4	2-Nitroaniline	50	43.2	86	54-128
99-09-2	3-Nitroaniline	50	42.0	84	56-106
100-01-6	4-Nitroaniline	50	42.2	84	55-120
91-20-3	Naphthalene	50	32.3	65	47-100
98-95-3	Nitrobenzene	50	33.2	66	50-104
62-75-9	N-Nitrosodimethylamine	50	21.5	43	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	37.2	74	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.5	83	64-108
85-01-8	Phenanthrene	50	43.2	86	66-110
129-00-0	Pyrene	50	43.3	87	64-113
110-86-1	Pyridine	50	19.8	40	23-74
120-82-1	1,2,4-Trichlorobenzene	50	27.9	56	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-BS	X036167.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	25%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	33-118%
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	88%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MS	X036183.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
OP52896-MSD	X036184.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
FA17740-1	X036182.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	FA17740-1 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	53.2	28	190	36.0	19	39	10-69/39
95-57-8	2-Chlorophenol	ND		95.2	63.7	67	95.2	54.7	57	15	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		95.2	64.6	68	95.2	55.5	58	15	54-103/23
120-83-2	2,4-Dichlorophenol	ND		95.2	60.1	63	95.2	52.0	55	14	53-103/26
105-67-9	2,4-Dimethylphenol	ND		95.2	65.2	68	95.2	57.4	60	13	43-90/27
51-28-5	2,4-Dinitrophenol	ND		190	148	78	190	111	58	29*	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		190	171	90	190	137	72	22	66-121/23
95-48-7	2-Methylphenol	ND		95.2	59.7	63	95.2	51.7	54	14	43-90/28
	3&4-Methylphenol	ND		190	112	59	190	98.1	52	13	36-88/28
88-75-5	2-Nitrophenol	ND		95.2	63.0	66	95.2	53.9	57	16	53-102/29
100-02-7	4-Nitrophenol	ND		190	75.6	40	190	59.2	31	24	18-62/33
87-86-5	Pentachlorophenol	ND		190	162	85	190	130	68	22	61-115/26
108-95-2	Phenol	ND		95.2	34.3	36	95.2	30.7	32	11	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		95.2	71.8	75	95.2	59.5	62	19	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		95.2	70.2	74	95.2	59.3	62	17	59-107/23
83-32-9	Acenaphthene	ND		95.2	75.1	79	95.2	64.3	68	15	61-107/22
208-96-8	Acenaphthylene	ND		95.2	75.5	79	95.2	64.6	68	16	60-104/22
62-53-3	Aniline	ND		95.2	65.5	69	95.2	60.9	64	7	47-100/30
120-12-7	Anthracene	ND		95.2	78.4	82	95.2	67.1	70	16	65-108/20
92-87-5	Benzidine	ND		95.2	26.4	28	95.2	36.5	38	32*	25-99/31
56-55-3	Benzo(a)anthracene	ND		95.2	77.3	81	95.2	64.6	68	18	66-111/22
50-32-8	Benzo(a)pyrene	ND		95.2	75.5	79	95.2	61.4	64	21	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		95.2	77.0	81	95.2	65.0	68	17	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		95.2	77.3	81	95.2	61.4	64*	23	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		95.2	78.2	82	95.2	63.7	67	20	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		95.2	61.9	65	95.2	52.3	55*	17	65-109/23
85-68-7	Butyl benzyl phthalate	ND		95.2	78.1	82	95.2	65.1	68	18	65-112/24
100-51-6	Benzyl Alcohol	ND		95.2	66.6	70	95.2	58.6	62	13	46-94/27
91-58-7	2-Chloronaphthalene	ND		95.2	68.9	72	95.2	58.8	62	16	57-103/23
106-47-8	4-Chloroaniline	ND		95.2	68.3	72	95.2	62.4	66	9	49-105/27
86-74-8	Carbazole	ND		95.2	77.8	82	95.2	65.5	69	17	59-113/21
218-01-9	Chrysene	ND		95.2	78.8	83	95.2	66.4	70	17	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		95.2	63.2	66	95.2	53.5	56	17	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		95.2	63.8	67	95.2	54.2	57	16	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		95.2	65.6	69	95.2	55.2	58	17	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		95.2	68.5	72	95.2	58.1	61*	16	62-105/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MS	X036183.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
OP52896-MSD	X036184.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
FA17740-1	X036182.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	FA17740-1 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	59.1	62	95.2	50.7	53	15	48-97/24
122-66-7	1,2-Diphenylhydrazine	ND		95.2	75.5	79	95.2	65.9	69	14	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		95.2	58.7	62	95.2	51.5	54	13	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		95.2	62.8	66	95.2	54.2	57	15	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		95.2	72.5	76	95.2	57.9	61	22*	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		95.2	74.0	78	95.2	61.1	64	19	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		95.2	78.2	82	95.2	65.4	69	18	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		95.2	74.8	79	95.2	60.1	63*	22	66-119/24
132-64-9	Dibenzofuran	ND		95.2	73.4	77	95.2	61.4	64	18	61-106/21
84-74-2	Di-n-butyl phthalate	ND		95.2	75.3	79	95.2	59.6	63*	23*	65-107/21
117-84-0	Di-n-octyl phthalate	ND		95.2	76.4	80	95.2	64.2	67	17	62-118/24
84-66-2	Diethyl phthalate	ND		95.2	72.5	76	95.2	60.8	64	18	64-108/21
131-11-3	Dimethyl phthalate	ND		95.2	73.4	77	95.2	61.9	65	17	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		95.2	77.5	81	95.2	64.5	68	18	61-117/23
206-44-0	Fluoranthene	ND		95.2	73.6	77	95.2	62.4	66	16	63-106/21
86-73-7	Fluorene	ND		95.2	77.0	81	95.2	65.0	68	17	62-108/20
118-74-1	Hexachlorobenzene	ND		95.2	74.3	78	95.2	62.6	66	17	63-108/22
87-68-3	Hexachlorobutadiene	ND		95.2	60.3	63	95.2	53.2	56	13	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		95.2	48.1	51	95.2	43.0	45	11	39-102/29
67-72-1	Hexachloroethane	ND		95.2	60.0	63	95.2	53.4	56	12	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		95.2	71.2	75	95.2	55.8	59*	24	64-119/24
78-59-1	Isophorone	ND		95.2	60.7	64	95.2	53.9	57	12	43-87/25
90-12-0	1-Methylnaphthalene	ND		95.2	61.3	64	95.2	53.7	56	13	53-102/27
91-57-6	2-Methylnaphthalene	ND		95.2	63.3	66	95.2	56.0	59	12	51-102/26
88-74-4	2-Nitroaniline	ND		95.2	80.2	84	95.2	67.6	71	17	54-128/24
99-09-2	3-Nitroaniline	ND		95.2	81.6	86	95.2	68.3	72	18	56-106/27
100-01-6	4-Nitroaniline	ND		95.2	80.0	84	95.2	66.4	70	19	55-120/24
91-20-3	Naphthalene	ND		95.2	64.1	67	95.2	55.9	59	14	47-100/29
98-95-3	Nitrobenzene	ND		95.2	61.4	64	95.2	54.1	57	13	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		95.2	48.6	51	95.2	43.4	46	11	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		95.2	67.5	71	95.2	57.9	61	15	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		95.2	75.0	79	95.2	64.2	67	16	64-108/23
85-01-8	Phenanthrene	ND		95.2	77.2	81	95.2	65.5	69	16	66-110/21
129-00-0	Pyrene	ND		95.2	78.4	82	95.2	64.3	68	20	64-113/23
110-86-1	Pyridine	ND		95.2	42.8	45	95.2	43.5	46	2	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		95.2	57.3	60	95.2	49.8	52	14	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52896-MS	X036183.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
OP52896-MSD	X036184.D	1	08/30/14	FS	08/28/14	OP52896	SX1698
FA17740-1	X036182.D	1	08/30/14	FS	08/28/14	OP52896	SX1698

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17738-1, FA17738-2, FA17738-3

CAS No.	Surrogate Recoveries	MS	MSD	FA17740-1	Limits
367-12-4	2-Fluorophenol	48%	41%	30%	14-67%
4165-62-2	Phenol-d5	36%	31%	19%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	62%	66%	33-118%
4165-60-0	Nitrobenzene-d5	63%	56%	61%	42-108%
321-60-8	2-Fluorobiphenyl	70%	61%	61%	40-106%
1718-51-0	Terphenyl-d14	83%	69%	73%	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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5317-MB	CD129828.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

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	79%	70-131%
98-08-8	aaa-Trifluorotoluene	88%	69-143%

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5317-BS	CD129827.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.357	89	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	86%	70-131%
98-08-8	aaa-Trifluorotoluene	99%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17692-3MS	CD129834.D	1	08/29/14	JG	n/a	n/a	GCD5317
FA17692-3MSD	CD129835.D	1	08/29/14	JG	n/a	n/a	GCD5317
FA17692-3	CD129830.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	FA17692-3 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)	0.360		0.4	0.626	67*	0.4	0.619	65*	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA17692-3	Limits
460-00-4	4-Bromofluorobenzene	112%	111%	108%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	113%	102%	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: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-MB	WW2335.D	1	09/08/14	SJL	09/02/14	OP52936	GWW89

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

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	112%	50-131%

Blank Spike Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-BS	WW2334.D	1	09/08/14	SJL	09/02/14	OP52936	GWW89

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.806	81	56-123
	TPH (> C22-C36)	1	0.834	83	61-143

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17738
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-MS	WW2366.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92
OP52936-MSD	WW2367.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92
FA17738-3	WW2365.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17738-1, FA17738-2, FA17738-3

CAS No.	Compound	FA17738-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	1.28		1.96	3.46	111	1.96	3.08	92	12	56-123/33
	TPH (> C22-C36)	0.525		1.96	2.54	103	1.96	2.27	89	11	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA17738-3	Limits
84-15-1	o-Terphenyl	117%	107%	104%	50-131%

* = 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: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					09/03/14		09/03/14
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	18.9	<300	-4.6	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.0	<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 MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

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: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/03/14 09/03/14

Metal	FA17788-1 Original	DUP	RPD	QC Limits	FA17788-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	7240	7300	0.8	0-20	7240	32200	26000	96.0	80-120
Lead	anr								
Magnesium									
Manganese	44.3	44.3	0.0	0-20	44.3	529	500	96.9	80-120
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

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: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/03/14

Metal	FA17788-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	7240	31800	26000	94.5	1.3	20
Lead	anr					
Magnesium						
Manganese	44.3	520	500	95.1	1.7	20
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

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: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/03/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	25700	26000	98.8	80-120
Lead	anr			
Magnesium				
Manganese	491	500	98.2	80-120
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/03/14

Metal	FA17788-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	7240	7800	7.8	0-10
Lead	anr			
Magnesium				
Manganese	44.3	47.2	6.5	0-10
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27803
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/03/14

Metal	Sample ml	Final ml	FA17788-1 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	7239	7094.22	10080	0.2	150	3000	99.5	80-120
Lead										
Magnesium										
Manganese	9.8	10	44.3	43.414	95.4	0.2	2.5	50	104.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27803: FA17738-1, FA17738-2, FA17738-3, FA17738-1F, FA17738-2F, FA17738-3F

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: FA17738
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	GP24566/GN62964	2.0	0.0	mg/l	198	195	98.4	85-115%
Chemical Oxygen Demand	GP24534/GN62902	20	0.0	mg/l	50.0	50.0	101.0	87-122%
Chemical Oxygen Demand	GP24535/GN62903	20	0.0	mg/l	750	803	107.0	87-122%
Chloride	GP24538/GN62916	2.0	0.0	mg/l	50	49.4	98.8	90-110%
Fluoride	GP24538/GN62916	0.20	0.0	mg/l	2.5	2.73	109.2	90-110%
Iron, Ferrous	GN62898	0.10	0.0	mg/l	.500	0.47	94.5	82-115%
Nitrogen, Ammonia	GP24631/GN63119	0.10	0.0	mg/l	2.5	2.25	90.0	90-110%
Nitrogen, Nitrate	GP24538/GN62916	0.10	0.0	mg/l	2.5	2.48	99.2	90-110%
Nitrogen, Total Kjeldahl	GP24606/GN63125	0.53	0.0	mg/l	2.63	2.74	104.4	90-110%
Solids, Total Dissolved	GN62914	100	0.0	mg/l				
Sulfate	GP24538/GN62916	2.0	0.79	mg/l	50	57.1	114.2*(a)	90-110%

Associated Samples:
Batch GN62898: FA17738-1, FA17738-2, FA17738-3
Batch GN62914: FA17738-1, FA17738-2, FA17738-3
Batch GP24534: FA17738-2, FA17738-3
Batch GP24535: FA17738-1
Batch GP24538: FA17738-1, FA17738-2, FA17738-3
Batch GP24566: FA17738-1, FA17738-2, FA17738-3
Batch GP24606: FA17738-1, FA17738-2, FA17738-3
Batch GP24631: FA17738-1, FA17738-2, FA17738-3
(*) Outside of QC limits
(a) Outside control limits.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA17738
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP24566/GN62964	FA17738-1	mg/l	271	272	0.4	0-30%
Iron, Ferrous	GN62898	FA17736-4	mg/l	0.0	0.0	67.4(a)	0-31%
Solids, Total Dissolved	GN62914	FA17738-1	mg/l	3680	3740	1.6	0-5%

Associated Samples:
Batch GN62898: FA17738-1, FA17738-2, FA17738-3
Batch GN62914: FA17738-1, FA17738-2, FA17738-3
Batch GP24566: FA17738-1, FA17738-2, FA17738-3
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA17738
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	GP24534/GN62902	FA17738-3	mg/l	55.4	50.0	103	95.6	87-122%
Chemical Oxygen Demand	GP24535/GN62903	FA17738-1	mg/l	611	750mg/l	1150	72.2(a)	87-122%
Chloride	GP24538/GN62916	FA17739-8	mg/l	0.80 U	50	48.2	96.4	90-110%
Fluoride	GP24538/GN62916	FA17739-8	mg/l	0.060 U	2.5	2.8	112.0N(b)	90-110%
Nitrogen, Ammonia	GP24631/GN63119	FA17739-1	mg/l	136	2.5	123	-520.0(c)	90-110%
Nitrogen, Nitrate	GP24538/GN62916	FA17739-8	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Total Kjeldahl	GP24606/GN63125	FA17738-3	mg/l	1.3	2.63	4.7	129.5N(b)	90-110%
Sulfate	GP24538/GN62916	FA17739-8	mg/l	3.3	50	52.7	98.8	90-110%

Associated Samples:
Batch GP24534: FA17738-2, FA17738-3
Batch GP24535: FA17738-1
Batch GP24538: FA17738-1, FA17738-2, FA17738-3
Batch GP24606: FA17738-1, FA17738-2, FA17738-3
Batch GP24631: FA17738-1, FA17738-2, FA17738-3
(*) 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.
(c) 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: FA17738
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	GP24534/GN62902	FA17738-3	mg/l	55.4	50.0	106	2.4	26%
Chemical Oxygen Demand	GP24535/GN62903	FA17738-1	mg/l	611	750mg/l	1150	0.0	26%
Chloride	GP24538/GN62916	FA17739-8	mg/l	0.80 U	50	48.5	0.6	20%
Fluoride	GP24538/GN62916	FA17739-8	mg/l	0.060 U	2.5	2.9	3.5	20%
Nitrogen, Ammonia	GP24631/GN63119	FA17739-1	mg/l	136	2.5	138	11.5	20%
Nitrogen, Nitrate	GP24538/GN62916	FA17739-8	mg/l	0.050 U	2.5	2.3	0.0	20%
Nitrogen, Total Kjeldahl	GP24606/GN63125	FA17738-3	mg/l	1.3	2.63	4.6	2.2	20%
Sulfate	GP24538/GN62916	FA17739-8	mg/l	3.3	50	57.7	9.1	20%

Associated Samples:
Batch GP24534: FA17738-2, FA17738-3
Batch GP24535: FA17738-1
Batch GP24538: FA17738-1, FA17738-2, FA17738-3
Batch GP24606: FA17738-1, FA17738-2, FA17738-3
Batch GP24631: FA17738-1, FA17738-2, FA17738-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA17765

Sampling Date: 08/27/14

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **119**

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.

Norm Farmer
Technical Director

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Test results relate only to samples analyzed.

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Accutest LabLink@160286 12:17 08-Jun-2015

Sample Summary

Nation View

Job No: FA17765

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA17765-1	08/27/14	08:05	KFBP	08/28/14	AQ	Ground Water	SS17-MW05
FA17765-1F	08/27/14	08:05	KFBP	08/28/14	AQ	Groundwater Filtered	SS17-MW05
FA17765-2	08/27/14	08:05	KFBP	08/28/14	AQ	Ground Water	SS17-MW05A
FA17765-2F	08/27/14	08:05	KFBP	08/28/14	AQ	Groundwater Filtered	SS17-MW05A
FA17765-3	08/27/14	09:35	KFBP	08/28/14	AQ	Ground Water	SS17-MW07
FA17765-3F	08/27/14	09:35	KFBP	08/28/14	AQ	Groundwater Filtered	SS17-MW07
FA17765-4	08/27/14	11:00	KFBP	08/28/14	AQ	Ground Water	SS17-MW08
FA17765-4F	08/27/14	11:00	KFBP	08/28/14	AQ	Groundwater Filtered	SS17-MW08
FA17765-5	08/27/14	00:00	KFBP	08/28/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA17765
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/27/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17765-1	**SS17-MW05**					
n-Butylbenzene		9.1 J	25	7.6	ug/l	SW846 8260B
Ethylbenzene		1860	25	7.0	ug/l	SW846 8260B
Isopropylbenzene		46.1	25	5.0	ug/l	SW846 8260B
Naphthalene		333	130	25	ug/l	SW846 8260B
n-Propylbenzene		180	25	6.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		102	50	6.1	ug/l	SW846 8260B
m,p-Xylene		356	50	12	ug/l	SW846 8260B
1-Methylnaphthalene [a]		48.4	19	1.9	ug/l	SW846 8270D
2-Methylnaphthalene [a]		21.9	19	2.0	ug/l	SW846 8270D
Naphthalene [a]		235	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)		6.84	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)		2.60	0.48	0.19	mg/l	SW846 8015C
Iron		171 J	300	17	ug/l	SW846 6010C
Manganese		253	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		> 26.5	8.0	8.0	mg/l	SM5210 B-11
Chemical Oxygen Demand		101	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		32.9	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		0.45	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.90	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.2	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3240	200	20	mg/l	SM2540 C-11
Sulfate		1840	50	15	mg/l	EPA 300/SW846 9056A
FA17765-1F	**SS17-MW05**					
Manganese		231	15	1.0	ug/l	SW846 6010C
FA17765-2	**SS17-MW05A**					
Ethylbenzene		1860	25	7.0	ug/l	SW846 8260B
Isopropylbenzene		45.2	25	5.0	ug/l	SW846 8260B
Naphthalene		339	130	25	ug/l	SW846 8260B
n-Propylbenzene		180	25	6.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		105	50	6.1	ug/l	SW846 8260B
m,p-Xylene		358	50	12	ug/l	SW846 8260B
1-Methylnaphthalene [a]		49.5	19	1.9	ug/l	SW846 8270D
2-Methylnaphthalene [a]		20.3	19	2.0	ug/l	SW846 8270D
Naphthalene [a]		230	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)		6.79	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)		2.32	0.48	0.19	mg/l	SW846 8015C
Iron		108 J	300	17	ug/l	SW846 6010C
Manganese		238	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		> 26.6	8.0	8.0	mg/l	SM5210 B-11

Summary of Hits

Job Number: FA17765
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/27/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Chemical Oxygen Demand	114	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	27.0	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.47	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.92	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	2.3	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3120	200	20	mg/l	SM2540 C-11
Sulfate	1880	50	15	mg/l	EPA 300/SW846 9056A
FA17765-2F SS17-MW05A					
Manganese	239	15	1.0	ug/l	SW846 6010C
FA17765-3 SS17-MW07					
sec-Butylbenzene	0.56 J	1.0	0.27	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.0983 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.134	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)	0.0891	0.048	0.019	mg/l	SW846 8015C
Iron	132 J	300	17	ug/l	SW846 6010C
Manganese	374	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	20.3	20	5.3	mg/l	SM5220 C-11
Iron, Ferrous [b]	0.19	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.14	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	2670	200	20	mg/l	SM2540 C-11
Sulfate	1690	50	15	mg/l	EPA 300/SW846 9056A
FA17765-3F SS17-MW07					
Manganese	368	15	1.0	ug/l	SW846 6010C
FA17765-4 SS17-MW08					
n-Butylbenzene	23.0 J	50	15	ug/l	SW846 8260B
Ethylbenzene	4200	50	14	ug/l	SW846 8260B
Isopropylbenzene	104	50	10	ug/l	SW846 8260B
Naphthalene	401	250	50	ug/l	SW846 8260B
n-Propylbenzene	322	50	12	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	898	100	12	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	242	100	10	ug/l	SW846 8260B
m,p-Xylene	4170	100	24	ug/l	SW846 8260B
o-Xylene	14.1 J	50	10	ug/l	SW846 8260B
2,4-Dimethylphenol	1.1 J	4.7	0.47	ug/l	SW846 8270D
3&4-Methylphenol	1.6 J	4.7	1.1	ug/l	SW846 8270D

Summary of Hits

Job Number: FA17765
Account: Nation View
Project: Holloman AFB; SS17
Collected: 08/27/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
bis(2-Ethylhexyl)phthalate	3.5 J	4.7	1.5	ug/l	SW846 8270D
Fluorene	0.47 J	4.7	0.47	ug/l	SW846 8270D
1-Methylnaphthalene	56.7	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	39.3	4.7	0.50	ug/l	SW846 8270D
Naphthalene	275	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)	22.5	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)	3.02	0.48	0.19	mg/l	SW846 8015C
Iron	191 J	300	17	ug/l	SW846 6010C
Manganese	80.7	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	> 24.1	8.0	8.0	mg/l	SM5210 B-11
Chemical Oxygen Demand	86.1	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	16.3	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.66	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.43	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	2640	200	20	mg/l	SM2540 C-11
Sulfate	1680	50	15	mg/l	EPA 300/SW846 9056A
FA17765-4F SS17-MW08					
Manganese	78.0	15	1.0	ug/l	SW846 6010C
FA17765-5 TRIP BLANK					
Carbon disulfide	0.26 JB	2.0	0.20	ug/l	SW846 8260B
Toluene	0.71 J	1.0	0.20	ug/l	SW846 8260B

(a) Dilution required due to matrix interference.
(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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0100478.D	25	09/08/14	EP	n/a	n/a	VC4031
Run #2 [a]	B100835.D	50	09/05/14	DP	n/a	n/a	VB4093

	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	630	260	ug/l	
107-02-8	Acrolein	ND	500	160	ug/l	
107-13-1	Acrylonitrile	ND	250	50	ug/l	
71-43-2	Benzene	ND	25	6.1	ug/l	
108-86-1	Bromobenzene	ND	25	7.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.4	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.5	ug/l	
75-25-2	Bromoform	ND	25	9.6	ug/l	
104-51-8	n-Butylbenzene	9.1	25	7.6	ug/l	J
135-98-8	sec-Butylbenzene	ND	25	6.8	ug/l	
98-06-6	tert-Butylbenzene	ND	25	7.2	ug/l	
108-90-7	Chlorobenzene	ND	25	6.0	ug/l	
75-00-3	Chloroethane	ND	50	13	ug/l	
67-66-3	Chloroform	ND	25	7.8	ug/l	
95-49-8	o-Chlorotoluene	ND	25	5.7	ug/l	
106-43-4	p-Chlorotoluene	ND	25	7.3	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	130	25	ug/l	
75-15-0	Carbon disulfide	ND	50	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	25	9.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	6.4	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	7.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	6.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	8.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	8.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	9.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	8.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	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:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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 [b]	ND	25	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	7.3	ug/l	
106-46-7	p-Dichlorobenzene [b]	ND	25	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	25	8.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	5.3	ug/l	
100-41-4	Ethylbenzene	1860	25	7.0	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	13	ug/l	
98-82-8	Isopropylbenzene	46.1	25	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	130	25	ug/l	
74-83-9	Methyl bromide	ND	50	13	ug/l	
74-87-3	Methyl chloride	ND	50	13	ug/l	
74-95-3	Methylene bromide [b]	ND	50	7.3	ug/l	
75-09-2	Methylene chloride	ND	130	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	130	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	5.0	ug/l	
91-20-3	Naphthalene	333	130	25	ug/l	
103-65-1	n-Propylbenzene	180	25	6.0	ug/l	
100-42-5	Styrene	ND	25	5.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	8.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.9	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	7.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	13	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	14	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	102	50	6.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	25	6.4	ug/l	
108-88-3	Toluene	ND	25	5.0	ug/l	
79-01-6	Trichloroethylene	ND	25	7.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	25	8.1	ug/l	
108-05-4	Vinyl Acetate	ND	250	50	ug/l	
	m,p-Xylene	356	50	12	ug/l	
95-47-6	o-Xylene	ND	25	5.0	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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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%	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	119%	79-125%
2037-26-5	Toluene-D8	97%	105%	85-112%
460-00-4	4-Bromofluorobenzene	105%	102%	83-118%

(a) Confirmation run.
(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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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]	X036238.D	4	09/03/14	FS	09/02/14	OP52925	SX1700
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	2.0	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	96	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	7.7	ug/l	
95-48-7	2-Methylphenol	ND	19	1.9	ug/l	
	3&4-Methylphenol	ND	19	4.5	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.3	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	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.7	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	3.8	ug/l	
120-12-7	Anthracene	ND	19	2.4	ug/l	
92-87-5	Benzidine	ND	96	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.7	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	3.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	2.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	19	2.6	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	3.1	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	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	2.4	ug/l	
218-01-9	Chrysene	ND	19	2.8	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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	2.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	19	1.9	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	19	2.6	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	2.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	2.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	3.5	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	3.1	ug/l	
132-64-9	Dibenzofuran	ND	19	2.0	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	2.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	6.1	ug/l	
206-44-0	Fluoranthene	ND	19	2.7	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	3.8	ug/l	
67-72-1	Hexachloroethane	ND	19	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.4	ug/l	
78-59-1	Isophorone	ND	19	1.9	ug/l	
90-12-0	1-Methylnaphthalene	48.4	19	1.9	ug/l	
91-57-6	2-Methylnaphthalene	21.9	19	2.0	ug/l	
88-74-4	2-Nitroaniline	ND	19	4.5	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.3	ug/l	
100-01-6	4-Nitroaniline	ND	19	2.9	ug/l	
91-20-3	Naphthalene	235	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	19	1.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	3.8	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	2.3	ug/l	
129-00-0	Pyrene	ND	19	3.1	ug/l	
110-86-1	Pyridine	ND	38	7.7	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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	27%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	78%		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-MW05		
Lab Sample ID:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129845.D	20	08/29/14	JG	n/a	n/a	GCD5317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.84	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-131%
98-08-8	aaa-Trifluorotoluene	97%		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:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	WW2344.D	10	09/08/14	SJL	09/02/14	OP52936	GWW89
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)	2.60	0.48	0.19	mg/l	
	TPH (> C22-C36)	ND	0.48	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		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:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	171 J	300	17	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	253	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	> 26.5	8.0	8.0	mg/l	4	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	101	20	5.3	mg/l	1	09/04/14 15:15	LE	SM5220 C-11
Hydrogen Sulfide	32.9	1.0	0.50	mg/l	1	08/28/14 14:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	09/04/14 17:02	LM	SM3500FE B-11
Iron, Ferrous [b]	0.45	0.10	0.030	mg/l	1	08/28/14 12:45	JA	SM3500FE B-11
Nitrogen, Ammonia	0.90	0.10	0.030	mg/l	1	09/11/14 17:31	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/28/14 16:06	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.2	0.53	0.17	mg/l	1	09/11/14 12:43	DM	EPA 351.2
Solids, Total Dissolved	3240	200	20	mg/l	2	09/02/14 14:30	KC	SM2540 C-11
Sulfate	1840	50	15	mg/l	25	08/29/14 20:49	VK	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:	FA17765-1F	**Date Sampled:**	08/27/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	231	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0100479.D	25	09/08/14	EP	n/a	n/a	VC4031
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	630	260	ug/l	
107-02-8	Acrolein	ND	500	160	ug/l	
107-13-1	Acrylonitrile	ND	250	50	ug/l	
71-43-2	Benzene	ND	25	6.1	ug/l	
108-86-1	Bromobenzene	ND	25	7.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.4	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.5	ug/l	
75-25-2	Bromoform	ND	25	9.6	ug/l	
104-51-8	n-Butylbenzene	ND	25	7.6	ug/l	
135-98-8	sec-Butylbenzene	ND	25	6.8	ug/l	
98-06-6	tert-Butylbenzene	ND	25	7.2	ug/l	
108-90-7	Chlorobenzene	ND	25	6.0	ug/l	
75-00-3	Chloroethane	ND	50	13	ug/l	
67-66-3	Chloroform	ND	25	7.8	ug/l	
95-49-8	o-Chlorotoluene	ND	25	5.7	ug/l	
106-43-4	p-Chlorotoluene	ND	25	7.3	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	130	25	ug/l	
75-15-0	Carbon disulfide	ND	50	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	25	9.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	6.4	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	7.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	6.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	8.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	8.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	9.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	8.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	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-MW05A		
Lab Sample ID:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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 [a]	ND	25	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	7.3	ug/l	
106-46-7	p-Dichlorobenzene [a]	ND	25	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	25	8.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	5.3	ug/l	
100-41-4	Ethylbenzene	1860	25	7.0	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	13	ug/l	
98-82-8	Isopropylbenzene	45.2	25	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	130	25	ug/l	
74-83-9	Methyl bromide	ND	50	13	ug/l	
74-87-3	Methyl chloride	ND	50	13	ug/l	
74-95-3	Methylene bromide [a]	ND	50	7.3	ug/l	
75-09-2	Methylene chloride	ND	130	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	130	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	5.0	ug/l	
91-20-3	Naphthalene	339	130	25	ug/l	
103-65-1	n-Propylbenzene	180	25	6.0	ug/l	
100-42-5	Styrene	ND	25	5.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	8.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.9	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	7.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	13	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	14	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	105	50	6.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	25	6.4	ug/l	
108-88-3	Toluene	ND	25	5.0	ug/l	
79-01-6	Trichloroethylene	ND	25	7.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	25	8.1	ug/l	
108-05-4	Vinyl Acetate	ND	250	50	ug/l	
	m,p-Xylene	358	50	12	ug/l	
95-47-6	o-Xylene	ND	25	5.0	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-MW05A		
Lab Sample ID:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	96%		79-125%
2037-26-5	Toluene-D8	96%		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-MW05A		
Lab Sample ID:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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]	X036239.D	4	09/03/14	FS	09/02/14	OP52925	SX1700
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	190	38	ug/l	
95-57-8	2-Chlorophenol	ND	19	2.0	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	94	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	7.5	ug/l	
95-48-7	2-Methylphenol	ND	19	1.9	ug/l	
	3&4-Methylphenol	ND	19	4.4	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.3	ug/l	
100-02-7	4-Nitrophenol	ND	94	19	ug/l	
87-86-5	Pentachlorophenol	ND	94	19	ug/l	
108-95-2	Phenol	ND	19	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.7	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	3.8	ug/l	
120-12-7	Anthracene	ND	19	2.3	ug/l	
92-87-5	Benzidine	ND	94	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.5	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	3.1	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	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-MW05A		
Lab Sample ID:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	2.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	3.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	3.1	ug/l	
132-64-9	Dibenzofuran	ND	19	2.0	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	2.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	6.0	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	3.8	ug/l	
67-72-1	Hexachloroethane	ND	19	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.4	ug/l	
78-59-1	Isophorone	ND	19	1.9	ug/l	
90-12-0	1-Methylnaphthalene	49.5	19	1.9	ug/l	
91-57-6	2-Methylnaphthalene	20.3	19	2.0	ug/l	
88-74-4	2-Nitroaniline	ND	19	4.5	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.3	ug/l	
100-01-6	4-Nitroaniline	ND	19	2.9	ug/l	
91-20-3	Naphthalene	230	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	19	1.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	3.8	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	38	7.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	19	1.9	ug/l	

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

J = Indicates 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:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	29%		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	71%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	81%		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-MW05A		
Lab Sample ID:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129846.D	20	08/29/14	JG	n/a	n/a	GCD5317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.79	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-131%
98-08-8	aaa-Trifluorotoluene	97%		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:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	WW2345.D	10	09/08/14	SJL	09/02/14	OP52936	GWW89
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)	2.32	0.48	0.19	mg/l	
	TPH (> C22-C36)	ND	0.48	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		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:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	108 J	300	17	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	238	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	> 26.6	8.0	8.0	mg/l	4	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	114	20	5.3	mg/l	1	09/04/14 15:15	LE	SM5220 C-11
Hydrogen Sulfide	27.0	1.0	0.50	mg/l	1	08/28/14 14:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	09/04/14 17:07	LM	SM3500FE B-11
Iron, Ferrous [b]	0.47	0.10	0.030	mg/l	1	08/28/14 12:45	JA	SM3500FE B-11
Nitrogen, Ammonia	0.92	0.10	0.030	mg/l	1	09/11/14 17:32	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/28/14 16:23	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.3	0.53	0.17	mg/l	1	09/11/14 12:44	DM	EPA 351.2
Solids, Total Dissolved	3120	200	20	mg/l	2	09/02/14 14:30	KC	SM2540 C-11
Sulfate	1880	50	15	mg/l	25	08/29/14 21:06	VK	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-MW05A		
Lab Sample ID:	FA17765-2F	**Date Sampled:**	08/27/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	239	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B100837.D	1	09/05/14	DP	n/a	n/a	VB4093
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	0.56	1.0	0.27	ug/l	J
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 [a]	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-MW07		
Lab Sample ID:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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 [a]	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-MW07		
Lab Sample ID:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	120%		79-125%
2037-26-5	Toluene-D8	106%		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-MW07		
Lab Sample ID:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	X036240.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
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	0.50	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	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	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-MW07		
Lab Sample ID:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	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	0.73	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	23%		10-50%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	85%		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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129866.D	1	09/02/14	JG	n/a	n/a	GCD5318
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0983	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	91%		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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	WW2368.D	1	09/10/14	SJL	09/02/14	OP52936	GWW92
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)	0.134	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.0891	0.048	0.019	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 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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	132 J	300	17	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	374	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		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	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	20.3	20	5.3	mg/l	1	09/04/14 15:15	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	08/28/14 14:10	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	09/04/14 17:11	LM	SM3500FE B-11
Iron, Ferrous [b]	0.19	0.10	0.030	mg/l	1	08/28/14 12:45	JA	SM3500FE B-11
Nitrogen, Ammonia	0.14	0.10	0.030	mg/l	1	09/11/14 17:35	JC	EPA 350.1
Nitrogen, Nitrate	1.2	1.0	0.50	mg/l	10	08/28/14 16:40	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	09/11/14 12:45	DM	EPA 351.2
Solids, Total Dissolved	2670	200	20	mg/l	2	09/02/14 14:30	KC	SM2540 C-11
Sulfate	1690	50	15	mg/l	25	08/29/14 21:23	VK	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:	FA17765-3F	**Date Sampled:**	08/27/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	368	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B100838.D	50	09/05/14	DP	n/a	n/a	VB4093
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	ND	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	23.0	50	15	ug/l	J
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 [a]	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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	4200	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	104	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	401	250	50	ug/l	
103-65-1	n-Propylbenzene	322	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	898	100	12	ug/l	
108-67-8	1,3,5-Trimethylbenzene	242	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	13	ug/l	
108-88-3	Toluene	ND	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 [a]	ND	500	100	ug/l	
	m,p-Xylene	4170	100	24	ug/l	
95-47-6	o-Xylene	14.1	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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	118%		79-125%
2037-26-5	Toluene-D8	104%		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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	X036241.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
Run #2	T014152.D	4	09/05/14	NJ	09/02/14	OP52925	ST673

	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	1.1	4.7	0.47	ug/l	J
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	1.6	4.7	1.1	ug/l	J
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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	3.5	4.7	1.5	ug/l	J
206-44-0	Fluoranthene	ND	4.7	0.66	ug/l	
86-73-7	Fluorene	0.47	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	56.7	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	39.3	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	275 [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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	21%	35%	14-67%
4165-62-2	Phenol-d5	25%	21%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	76%	33-118%
4165-60-0	Nitrobenzene-d5	66%	73%	42-108%
321-60-8	2-Fluorobiphenyl	68%	66%	40-106%
1718-51-0	Terphenyl-d14	77%	73%	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-MW08		
Lab Sample ID:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD129916.D	50	09/04/14	JG	n/a	n/a	GCD5320
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	22.5	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-131%
98-08-8	aaa-Trifluorotoluene	99%		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:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
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	WW2346.D	10	09/08/14	SJL	09/02/14	OP52936	GWW89
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)	3.02	0.48	0.19	mg/l	
	TPH (> C22-C36)	ND	0.48	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	122%		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:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	191 J	300	17	ug/l	1	09/05/14	09/05/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	80.7	15	1.0	ug/l	1	09/05/14	09/05/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11864
(2) Prep QC Batch: MP27820

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:	FA17765-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	> 24.1	8.0	8.0	mg/l	4	08/28/14 09:30	KC	SM5210 B-11
Chemical Oxygen Demand	86.1	20	5.3	mg/l	1	09/04/14 15:15	LE	SM5220 C-11
Hydrogen Sulfide	16.3	1.0	0.50	mg/l	1	08/28/14 14:10	LE	SM4500S2- F-11
Iron, Ferric [a]	-0.47 *	0.40	0.047	mg/l	1	09/05/14 12:01	LM	SM3500FE B-11
Iron, Ferrous [b]	0.66	0.10	0.030	mg/l	1	08/28/14 12:45	JA	SM3500FE B-11
Nitrogen, Ammonia	0.43	0.10	0.030	mg/l	1	09/11/14 17:37	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	08/28/14 16:57	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	09/11/14 12:49	DM	EPA 351.2
Solids, Total Dissolved	2640	200	20	mg/l	2	09/02/14 14:30	KC	SM2540 C-11
Sulfate	1680	50	15	mg/l	25	09/18/14 19:21	VK	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:	FA17765-4F	**Date Sampled:**	08/27/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	78.0	15	1.0	ug/l	1	09/04/14	09/04/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA11861
(2) Prep QC Batch: MP27816

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:	FA17765-5	**Date Sampled:**	08/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/28/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B100839.D	1	09/05/14	DP	n/a	n/a	VB4093
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	0.26	2.0	0.20	ug/l	JB
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 [a]	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:	FA17765-5	**Date Sampled:**	08/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/28/14
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	0.71	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 [a]	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:	FA17765-5	**Date Sampled:**	08/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/28/14
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	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	103%		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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA17765

Page: 1 of 1

Project No: 11.0019

COC Number(1): 08272014

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

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-MW05	SS17-MW05	27-Aug-14	805		N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							1	1
SS17-MW05a	SS17-MW05a	27-Aug-14	805	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							2	2
SS17-MW07	SS17-MW07	27-Aug-14	935	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							3	3
SS17-MW08	SS17-MW08	27-Aug-14	1100	-	N		WG	18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]							4	4
TRIP BLANK	Field QC	27-Aug-14		-	TB		AQ	1	[1]																5	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]	8/27/2014		1. FX		09:30
2. FX			2. J Corne (Altec)	8-28-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Airbill Number: 770963141270 / 770963141718

Airbill Number: 770963141729 / 770963141270

Delivery Location: Orlando FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.8 2.6 2.8 3.0

FA17765: Chain of Custody

Page 1 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA17765 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 8-28-14 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4

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

AIRBILL NUMBERS: 7709 6314 1270

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
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.1 2.2 2.1 2.6
- [ ] CORRECTED TEMPS: 2.8 2.6 2.8 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
- [ ] 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 8-28-14 REVIEWER SIGNATURE/DATE 08-28-14

RS 04/14

receipt confirmation 041514.xls

4.1

4

FA17765: 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

J14224061903JV

Ship Date: 27AUG14
ActWgt: 40.0 LB
CAD: 100026931/NET3550

Delivery Address Bar Code

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

Ref # 11-0319.73.010
Invoice # 11-0319.73.010
PO # 11-0019.73.010
Dept # 11-0019.73.010

1 of 4

TRK# 7709 6314 1270
0201

MASTER

XH TIXA

THU - 28 AUG 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

5220/1E0F2/9A39

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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.

4.1 4

FA17765: Chain of Custody

Page 3 of 6

From: (575) 921-1999
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J142201-061903/JA

Ship Date: 27AUG14
ActWgt: 49.0 LB
CAD: 100028931/INET3550

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
Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

BILL RECIPIENT

2 of 4

MPS# 7709 6314 1718
6263
Mstr# 7709 6314 1270
0291

THU - 28 AUG 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

XH TIXA

5293/NE2F/8A03

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From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

Ship Date: 27AUG14
ActWgt: 40.0 LB
CAD: 100062931/INET3550

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
Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

BILL RECIPIENT

3 of 4

MPS# 7709 6314 1729
0263
Mstr# 7709 6314 1270
0201

THU - 28 AUG 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

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From: (575) 921-1899
Tony Lozano
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

JH2C 4.0 19Dec

Ship Date: 27AUG14
Act.Wgt: 40.0 LB
CAD: 100026931/INET3550

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) 425-6760
BILL RECIPIENT

Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

4 of 4

MPS# 7709 6314 1946
0263
Mstr# 7709 6314 1270
0201

THU - 28 AUG 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

5220/E5F28A03

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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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-MB	B100827.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

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	0.32	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	
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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-MB	B100827.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

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	0.28	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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-MB	B100827.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	120%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-MB	C0100474.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-MB	C0100474.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-MB	C0100474.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-BS	B100826.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	171	137	50-147
107-02-8	Acrolein	125	156	125	31-154
107-13-1	Acrylonitrile	125	117	94	58-126
71-43-2	Benzene	25	27.3	109	81-122
108-86-1	Bromobenzene	25	24.9	100	80-121
74-97-5	Bromochloromethane	25	23.3	93	76-123
75-27-4	Bromodichloromethane	25	27.5	110	79-123
75-25-2	Bromoform	25	23.1	92	66-123
104-51-8	n-Butylbenzene	25	24.2	97	79-126
135-98-8	sec-Butylbenzene	25	26.0	104	83-133
98-06-6	tert-Butylbenzene	25	28.3	113	80-133
108-90-7	Chlorobenzene	25	24.7	99	82-124
75-00-3	Chloroethane	25	27.6	110	62-144
67-66-3	Chloroform	25	27.7	111	80-124
95-49-8	o-Chlorotoluene	25	25.3	101	81-127
106-43-4	p-Chlorotoluene	25	25.8	103	83-130
110-75-8	2-Chloroethyl vinyl ether	125	85.9	69	56-122
75-15-0	Carbon disulfide	25	26.9	108	66-148
56-23-5	Carbon tetrachloride	25	31.4	126	76-136
75-34-3	1,1-Dichloroethane	25	26.6	106	81-122
75-35-4	1,1-Dichloroethylene	25	30.3	121	78-137
563-58-6	1,1-Dichloropropene	25	29.1	116	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	22.3	89	64-123
106-93-4	1,2-Dibromoethane	25	23.3	93	75-120
107-06-2	1,2-Dichloroethane	25	29.6	118	75-125
78-87-5	1,2-Dichloropropane	25	24.7	99	76-124
142-28-9	1,3-Dichloropropane	25	22.2	89	80-118
594-20-7	2,2-Dichloropropane	25	35.3	141*	74-139
124-48-1	Dibromochloromethane	25	24.0	96	78-122
75-71-8	Dichlorodifluoromethane	25	33.0	132	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.6	102	75-118
541-73-1	m-Dichlorobenzene	25	27.4	110	84-125
95-50-1	o-Dichlorobenzene	25	24.0	96	82-124
106-46-7	p-Dichlorobenzene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-BS	B100826.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	24.6	98	80-120
100-41-4	Ethylbenzene	25	24.6	98	81-121
591-78-6	2-Hexanone	125	127	102	61-129
87-68-3	Hexachlorobutadiene	25	28.9	116	75-142
98-82-8	Isopropylbenzene	25	27.8	111	83-132
99-87-6	p-Isopropyltoluene	25	26.1	104	79-130
108-10-1	4-Methyl-2-pentanone	125	113	90	66-122
74-83-9	Methyl bromide	25	30.3	121	59-143
74-87-3	Methyl chloride	25	29.9	120	50-159
74-95-3	Methylene bromide	25	25.3	101	78-119
75-09-2	Methylene chloride	25	27.9	112	69-135
78-93-3	Methyl ethyl ketone	125	124	99	56-143
1634-04-4	Methyl Tert Butyl Ether	25	22.5	90	72-117
91-20-3	Naphthalene	25	21.0	84	63-132
103-65-1	n-Propylbenzene	25	28.5	114	82-133
100-42-5	Styrene	25	22.4	90	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.7	103	77-122
71-55-6	1,1,1-Trichloroethane	25	30.5	122	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	22.0	88	72-120
79-00-5	1,1,2-Trichloroethane	25	22.9	92	76-119
87-61-6	1,2,3-Trichlorobenzene	25	22.9	92	68-131
96-18-4	1,2,3-Trichloropropane	25	22.3	89	77-120
120-82-1	1,2,4-Trichlorobenzene	25	23.9	96	73-129
95-63-6	1,2,4-Trimethylbenzene	25	24.8	99	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.4	102	79-120
127-18-4	Tetrachloroethylene	25	24.4	98	76-135
108-88-3	Toluene	25	23.1	92	80-120
79-01-6	Trichloroethylene	25	26.2	105	81-126
75-69-4	Trichlorofluoromethane	25	30.7	123	71-156
75-01-4	Vinyl chloride	25	32.2	129	69-159
108-05-4	Vinyl Acetate	125	243	194*	43-154
	m,p-Xylene	50	52.2	104	79-126
95-47-6	o-Xylene	25	26.0	104	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4093-BS	B100826.D	1	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	116%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-BS [a]	C0100473.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	143	114	50-147
107-02-8	Acrolein	125	127	102	31-154
107-13-1	Acrylonitrile	125	132	106	58-126
71-43-2	Benzene	25	28.7	115	81-122
108-86-1	Bromobenzene	25	27.8	111	80-121
74-97-5	Bromochloromethane	25	26.7	107	76-123
75-27-4	Bromodichloromethane	25	28.0	112	79-123
75-25-2	Bromoform	25	26.7	107	66-123
104-51-8	n-Butylbenzene	25	30.0	120	79-126
135-98-8	sec-Butylbenzene	25	29.0	116	83-133
98-06-6	tert-Butylbenzene	25	27.8	111	80-133
108-90-7	Chlorobenzene	25	29.8	119	82-124
75-00-3	Chloroethane	25	28.6	114	62-144
67-66-3	Chloroform	25	26.3	105	80-124
95-49-8	o-Chlorotoluene	25	31.0	124	81-127
106-43-4	p-Chlorotoluene	25	29.1	116	83-130
110-75-8	2-Chloroethyl vinyl ether	125	121	97	56-122
75-15-0	Carbon disulfide	25	32.0	128	66-148
56-23-5	Carbon tetrachloride	25	28.3	113	76-136
75-34-3	1,1-Dichloroethane	25	27.2	109	81-122
75-35-4	1,1-Dichloroethylene	25	29.2	117	78-137
563-58-6	1,1-Dichloropropene	25	30.3	121	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	28.0	112	64-123
106-93-4	1,2-Dibromoethane	25	27.6	110	75-120
107-06-2	1,2-Dichloroethane	25	28.0	112	75-125
78-87-5	1,2-Dichloropropane	25	27.8	111	76-124
142-28-9	1,3-Dichloropropane	25	28.1	112	80-118
594-20-7	2,2-Dichloropropane	25	27.6	110	74-139
124-48-1	Dibromochloromethane	25	30.2	121	78-122
75-71-8	Dichlorodifluoromethane	25	24.7	99	42-167
156-59-2	cis-1,2-Dichloroethylene	25	30.0	120	78-120
10061-01-5	cis-1,3-Dichloropropene	25	27.7	111	75-118
541-73-1	m-Dichlorobenzene	25	31.7	127*	84-125
95-50-1	o-Dichlorobenzene	25	31.4	126*	82-124
106-46-7	p-Dichlorobenzene	25	27.5	110	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-BS [a]	C0100473.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	29.4	118	80-120
100-41-4	Ethylbenzene	25	28.6	114	81-121
591-78-6	2-Hexanone	125	141	113	61-129
87-68-3	Hexachlorobutadiene	25	31.3	125	75-142
98-82-8	Isopropylbenzene	25	29.6	118	83-132
99-87-6	p-Isopropyltoluene	25	28.9	116	79-130
108-10-1	4-Methyl-2-pentanone	125	134	107	66-122
74-83-9	Methyl bromide	25	27.7	111	59-143
74-87-3	Methyl chloride	25	27.0	108	50-159
74-95-3	Methylene bromide	25	30.0	120*	78-119
75-09-2	Methylene chloride	25	25.9	104	69-135
78-93-3	Methyl ethyl ketone	125	132	106	56-143
1634-04-4	Methyl Tert Butyl Ether	25	27.2	109	72-117
91-20-3	Naphthalene	25	29.2	117	63-132
103-65-1	n-Propylbenzene	25	31.3	125	82-133
100-42-5	Styrene	25	26.9	108	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	28.6	114	77-122
71-55-6	1,1,1-Trichloroethane	25	27.4	110	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	27.9	112	72-120
79-00-5	1,1,2-Trichloroethane	25	27.6	110	76-119
87-61-6	1,2,3-Trichlorobenzene	25	30.8	123	68-131
96-18-4	1,2,3-Trichloropropane	25	28.4	114	77-120
120-82-1	1,2,4-Trichlorobenzene	25	31.8	127	73-129
95-63-6	1,2,4-Trimethylbenzene	25	30.0	120	79-120
108-67-8	1,3,5-Trimethylbenzene	25	29.1	116	79-120
127-18-4	Tetrachloroethylene	25	30.0	120	76-135
108-88-3	Toluene	25	27.9	112	80-120
79-01-6	Trichloroethylene	25	28.7	115	81-126
75-69-4	Trichlorofluoromethane	25	28.2	113	71-156
75-01-4	Vinyl chloride	25	26.2	105	69-159
108-05-4	Vinyl Acetate	125	90.3	72	43-154
	m,p-Xylene	50	55.1	110	79-126
95-47-6	o-Xylene	25	28.2	113	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4031-BS [a]	C0100473.D	1	09/08/14	EP	n/a	n/a	VC4031

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-1, FA17765-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

(a) No MS/MSD available for this run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17765-1MS	B100850.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1MSD	B100851.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1 [a]	B100835.D	50	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Compound	FA17765-1 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	ND		6250	4070	65	6250	3910	63	4	50-147/21
107-02-8	Acrolein	ND		6250	5840	93	6250	5430	87	7	31-154/29
107-13-1	Acrylonitrile	ND		6250	6250	100	6250	5810	93	7	58-126/16
71-43-2	Benzene	19.6	J	1250	1390	110	1250	1310	103	6	81-122/14
108-86-1	Bromobenzene	ND		1250	1180	94	1250	1140	91	3	80-121/14
74-97-5	Bromochloromethane	ND		1250	1200	96	1250	1110	89	8	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1390	111	1250	1230	98	12	79-123/19
75-25-2	Bromoform	ND		1250	982	79	1250	867	69	12	66-123/21
104-51-8	n-Butylbenzene	19.8	J	1250	1190	94	1250	1130	89	5	79-126/16
135-98-8	sec-Butylbenzene	20.5	J	1250	1260	99	1250	1200	94	5	83-133/16
98-06-6	tert-Butylbenzene	14.3	J	1250	1370	108	1250	1330	105	3	80-133/16
108-90-7	Chlorobenzene	ND		1250	1180	94	1250	1150	92	3	82-124/14
75-00-3	Chloroethane	ND		1250	1630	130	1250	1520	122	7	62-144/20
67-66-3	Chloroform	18.7	J	1250	1450	115	1250	1410	111	3	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1220	98	1250	1180	94	3	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1240	99	1250	1160	93	7	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		6250	351	6*	6250	216	3*	48*	56-122/23
75-15-0	Carbon disulfide	17.2	J	1250	1140	90	1250	1080	85	5	66-148/23
56-23-5	Carbon tetrachloride	ND		1250	1520	122	1250	1360	109	11	76-136/23
75-34-3	1,1-Dichloroethane	16.1	J	1250	1390	110	1250	1300	103	7	81-122/15
75-35-4	1,1-Dichloroethylene	13.1	J	1250	1570	125	1250	1490	118	5	78-137/18
563-58-6	1,1-Dichloropropene	ND		1250	1520	122	1250	1450	116	5	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1060	85	1250	1040	83	2	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1170	94	1250	1110	89	5	75-120/13
107-06-2	1,2-Dichloroethane	13.8	J	1250	1490	118	1250	1420	112	5	75-125/14
78-87-5	1,2-Dichloropropane	ND		1250	1320	106	1250	1260	101	5	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1090	87	1250	1050	84	4	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1450	116	1250	1370	110	6	74-139/17
124-48-1	Dibromochloromethane	ND		1250	1160	93	1250	1000	80	15	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1780	142	1250	1700	136	5	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1280	102	1250	1240	99	3	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1050	84	1250	911	73*	14	75-118/23
541-73-1	m-Dichlorobenzene	10.9	J	1250	1310	104	1250	1240	98	5	84-125/14
95-50-1	o-Dichlorobenzene	ND		1250	1190	95	1250	1150	92	3	82-124/14
106-46-7	p-Dichlorobenzene	15.2	J	1250	1200	95	1250	1190	94	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	20.8	J	1250	1410	111	1250	1320	104	7	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17765-1MS	B100850.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1MSD	B100851.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1 [a]	B100835.D	50	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Compound	FA17765-1 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	ND		1250	1010	81	1250	800	64*	23*	80-120/22
100-41-4	Ethylbenzene	2240		1250	3430	95	1250	3230	79*	6	81-121/14
591-78-6	2-Hexanone	ND		6250	4790	77	6250	4490	72	6	61-129/18
87-68-3	Hexachlorobutadiene	ND		1250	1290	103	1250	1360	109	5	75-142/19
98-82-8	Isopropylbenzene	82.6		1250	1380	104	1250	1350	101	2	83-132/15
99-87-6	p-Isopropyltoluene	12.3	J	1250	1220	97	1250	1190	94	2	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		6250	5700	91	6250	5560	89	2	66-122/16
74-83-9	Methyl bromide	ND		1250	1670	134	1250	1590	127	5	59-143/19
74-87-3	Methyl chloride	ND		1250	1690	135	1250	1670	134	1	50-159/19
74-95-3	Methylene bromide	ND		1250	1330	106	1250	1220	98	9	78-119/14
75-09-2	Methylene chloride	ND		1250	1500	120	1250	1440	115	4	69-135/16
78-93-3	Methyl ethyl ketone	ND		6250	5760	92	6250	5550	89	4	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1190	95	1250	1160	93	3	72-117/14
91-20-3	Naphthalene	285		1250	1310	82	1250	1290	80	2	63-132/25
103-65-1	n-Propylbenzene	212		1250	1490	102	1250	1430	97	4	82-133/15
100-42-5	Styrene	ND		1250	1060	85	1250	1010	81	5	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1220	98	1250	1090	87	11	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		1250	1560	125	1250	1510	121	3	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1070	86	1250	1040	83	3	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		1250	1120	90	1250	1060	85	6	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1040	83	1250	1100	88	6	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1090	87	1250	1100	88	1	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1100	88	1250	1130	90	3	73-129/20
95-63-6	1,2,4-Trimethylbenzene	128		1250	1320	95	1250	1280	92	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	13.6	J	1250	1210	96	1250	1200	95	1	79-120/19
127-18-4	Tetrachloroethylene	ND		1250	1220	98	1250	1150	92	6	76-135/16
108-88-3	Toluene	21.1	J	1250	1150	90	1250	1070	84	7	80-120/14
79-01-6	Trichloroethylene	ND		1250	1310	105	1250	1260	101	4	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1760	141	1250	1720	138	2	71-156/21
75-01-4	Vinyl chloride	ND		1250	1780	142	1250	1810	145	2	69-159/18
108-05-4	Vinyl Acetate	ND		6250	12700	203*	6250	11800	189*	7	43-154/14
	m,p-Xylene	450		2500	2970	101	2500	2820	95	5	79-126/15
95-47-6	o-Xylene	17.4	J	1250	1290	102	1250	1240	98	4	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17765-1MS	B100850.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1MSD	B100851.D	50	09/05/14	DP	n/a	n/a	VB4093
FA17765-1 [a]	B100835.D	50	09/05/14	DP	n/a	n/a	VB4093

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA17765-3, FA17765-4, FA17765-5

CAS No.	Surrogate Recoveries	MS	MSD	FA17765-1	Limits
1868-53-7	Dibromofluoromethane	114%	112%	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	121%	117%	119%	79-125%
2037-26-5	Toluene-D8	102%	102%	105%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	102%	83-118%

(a) Confirmation run.

* = 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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MB	X036236.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MB	X036236.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MB	X036236.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-67%
4165-62-2	Phenol-d5	32%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	80%	40-106%
1718-51-0	Terphenyl-d14	96%	39-121%

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-BS	X036229.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	10.3	10	10-69
95-57-8	2-Chlorophenol	50	35.0	70	52-98
59-50-7	4-Chloro-3-methyl phenol	50	35.4	71	54-103
120-83-2	2,4-Dichlorophenol	50	36.1	72	53-103
105-67-9	2,4-Dimethylphenol	50	35.0	70	43-90
51-28-5	2,4-Dinitrophenol	100	81.5	82	44-112
534-52-1	4,6-Dinitro-o-cresol	100	102	102	66-121
95-48-7	2-Methylphenol	50	31.0	62	43-90
	3&4-Methylphenol	100	52.5	53	36-88
88-75-5	2-Nitrophenol	50	37.5	75	53-102
100-02-7	4-Nitrophenol	100	26.4	26	18-62
87-86-5	Pentachlorophenol	100	94.2	94	61-115
108-95-2	Phenol	50	12.6	25	19-56
95-95-4	2,4,5-Trichlorophenol	50	43.5	87	62-109
88-06-2	2,4,6-Trichlorophenol	50	42.6	85	59-107
83-32-9	Acenaphthene	50	44.3	89	61-107
208-96-8	Acenaphthylene	50	44.2	88	60-104
62-53-3	Aniline	50	34.5	69	47-100
120-12-7	Anthracene	50	45.0	90	65-108
92-87-5	Benzidine	50	31.6	63	25-99
56-55-3	Benzo(a)anthracene	50	44.2	88	66-111
50-32-8	Benzo(a)pyrene	50	42.4	85	62-107
205-99-2	Benzo(b)fluoranthene	50	43.4	87	65-114
191-24-2	Benzo(g,h,i)perylene	50	45.4	91	66-116
207-08-9	Benzo(k)fluoranthene	50	44.5	89	65-114
101-55-3	4-Bromophenyl phenyl ether	50	36.8	74	65-109
85-68-7	Butyl benzyl phthalate	50	43.1	86	65-112
100-51-6	Benzyl Alcohol	50	28.9	58	46-94
91-58-7	2-Chloronaphthalene	50	40.0	80	57-103
106-47-8	4-Chloroaniline	50	37.2	74	49-105
86-74-8	Carbazole	50	42.6	85	59-113
218-01-9	Chrysene	50	45.1	90	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	37.0	74	51-102
111-44-4	bis(2-Chloroethyl)ether	50	37.7	75	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	38.5	77	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	40.4	81	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-BS	X036229.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.4	63	48-97
122-66-7	1,2-Diphenylhydrazine	50	42.7	85	61-110
541-73-1	1,3-Dichlorobenzene	50	30.5	61	45-95
106-46-7	1,4-Dichlorobenzene	50	32.9	66	45-98
121-14-2	2,4-Dinitrotoluene	50	40.5	81	61-110
606-20-2	2,6-Dinitrotoluene	50	41.6	83	63-108
91-94-1	3,3'-Dichlorobenzidine	50	44.8	90	46-117
53-70-3	Dibenzo(a,h)anthracene	50	44.3	89	66-119
132-64-9	Dibenzofuran	50	42.4	85	61-106
84-74-2	Di-n-butyl phthalate	50	42.2	84	65-107
117-84-0	Di-n-octyl phthalate	50	42.5	85	62-118
84-66-2	Diethyl phthalate	50	42.3	85	64-108
131-11-3	Dimethyl phthalate	50	42.0	84	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	43.2	86	61-117
206-44-0	Fluoranthene	50	42.1	84	63-106
86-73-7	Fluorene	50	43.9	88	62-108
118-74-1	Hexachlorobenzene	50	43.8	88	63-108
87-68-3	Hexachlorobutadiene	50	30.6	61	42-102
77-47-4	Hexachlorocyclopentadiene	50	24.5	49	39-102
67-72-1	Hexachloroethane	50	29.4	59	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.1	84	64-119
78-59-1	Isophorone	50	36.5	73	43-87
90-12-0	1-Methylnaphthalene	50	35.1	70	53-102
91-57-6	2-Methylnaphthalene	50	36.3	73	51-102
88-74-4	2-Nitroaniline	50	43.6	87	54-128
99-09-2	3-Nitroaniline	50	41.4	83	56-106
100-01-6	4-Nitroaniline	50	41.3	83	55-120
91-20-3	Naphthalene	50	36.9	74	47-100
98-95-3	Nitrobenzene	50	36.3	73	50-104
62-75-9	N-Nitrosodimethylamine	50	21.1	42	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	40.0	80	52-104
86-30-6	N-Nitrosodiphenylamine	50	43.1	86	64-108
85-01-8	Phenanthrene	50	44.5	89	66-110
129-00-0	Pyrene	50	43.9	88	64-113
110-86-1	Pyridine	50	21.5	43	23-74
120-82-1	1,2,4-Trichlorobenzene	50	31.2	62	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-BS	X036229.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	25%	10-50%
118-79-6	2,4,6-Tribromophenol	86%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	81%	40-106%
1718-51-0	Terphenyl-d14	91%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MS	X036246.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
OP52925-MSD	X036247.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
FA17776-4	X036245.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	FA17776-4 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	43.5	23	192	53.9	28	21	10-69/39
95-57-8	2-Chlorophenol	ND		96.2	64.1	67	96.2	59.8	62	7	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	68.3	71	96.2	67.6	70	1	54-103/23
120-83-2	2,4-Dichlorophenol	ND		96.2	62.9	65	96.2	61.4	64	2	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	60.0	62	96.2	58.5	61	3	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	154	80	192	152	79	1	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	191	99	192	181	94	5	66-121/23
95-48-7	2-Methylphenol	ND		96.2	59.8	62	96.2	59.3	62	1	43-90/28
	3&4-Methylphenol	ND		192	112	58	192	114	59	2	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	63.6	66	96.2	61.5	64	3	53-102/29
100-02-7	4-Nitrophenol	ND		192	80.1	42	192	83.9	44	5	18-62/33
87-86-5	Pentachlorophenol	ND		192	192	100	192	184	96	4	61-115/26
108-95-2	Phenol	ND		96.2	33.0	34	96.2	36.5	38	10	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	75.6	79	96.2	74.2	77	2	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	75.5	79	96.2	73.6	77	3	59-107/23
83-32-9	Acenaphthene	ND		96.2	78.3	81	96.2	76.3	79	3	61-107/22
208-96-8	Acenaphthylene	ND		96.2	79.7	83	96.2	76.1	79	5	60-104/22
62-53-3	Aniline	ND		96.2	66.6	69	96.2	61.8	64	7	47-100/30
120-12-7	Anthracene	ND		96.2	82.9	86	96.2	79.3	82	4	65-108/20
92-87-5	Benzidine	ND		96.2	54.7	57	96.2	42.5	44	25	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	83.9	87	96.2	79.7	83	5	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	79.5	83	96.2	75.4	78	5	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	80.8	84	96.2	76.3	79	6	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	83.7	87	96.2	80.6	84	4	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	81.4	85	96.2	78.1	81	4	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	68.7	71	96.2	65.8	68	4	65-109/23
85-68-7	Butyl benzyl phthalate	ND		96.2	83.6	87	96.2	76.3	79	9	65-112/24
100-51-6	Benzyl Alcohol	ND		96.2	67.8	71	96.2	64.1	67	6	46-94/27
91-58-7	2-Chloronaphthalene	ND		96.2	69.8	73	96.2	67.7	70	3	57-103/23
106-47-8	4-Chloroaniline	ND		96.2	67.8	71	96.2	64.2	67	5	49-105/27
86-74-8	Carbazole	ND		96.2	81.8	85	96.2	77.9	81	5	59-113/21
218-01-9	Chrysene	ND		96.2	85.1	89	96.2	81.0	84	5	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	63.3	66	96.2	60.7	63	4	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	63.8	66	96.2	58.5	61	9	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	64.8	67	96.2	59.1	61	9	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	73.2	76	96.2	71.6	74	2	62-105/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MS	X036246.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
OP52925-MSD	X036247.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
FA17776-4	X036245.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	FA17776-4 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		96.2	58.3	61	96.2	56.7	59	3	48-97/24
122-66-7	1,2-Diphenylhydrazine	ND		96.2	78.3	81	96.2	72.6	76	8	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	58.1	60	96.2	55.8	58	4	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	61.5	64	96.2	59.8	62	3	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		96.2	77.7	81	96.2	75.1	78	3	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	78.7	82	96.2	72.8	76	8	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	82.6	86	96.2	78.4	82	5	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	80.7	84	96.2	83.2	87	3	66-119/24
132-64-9	Dibenzofuran	ND		96.2	76.4	79	96.2	73.9	77	3	61-106/21
84-74-2	Di-n-butyl phthalate	ND		96.2	80.5	84	96.2	75.1	78	7	65-107/21
117-84-0	Di-n-octyl phthalate	ND		96.2	82.4	86	96.2	74.7	78	10	62-118/24
84-66-2	Diethyl phthalate	ND		96.2	78.6	82	96.2	74.6	78	5	64-108/21
131-11-3	Dimethyl phthalate	ND		96.2	78.9	82	96.2	74.6	78	6	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	83.1	86	96.2	78.0	81	6	61-117/23
206-44-0	Fluoranthene	ND		96.2	83.7	87	96.2	77.3	80	8	63-106/21
86-73-7	Fluorene	ND		96.2	82.0	85	96.2	78.1	81	5	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	84.9	88	96.2	79.1	82	7	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	60.1	63	96.2	59.6	62	1	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	46.6	48	96.2	44.2	46	5	39-102/29
67-72-1	Hexachloroethane	ND		96.2	57.6	60	96.2	54.7	57	5	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	75.7	79	96.2	75.2	78	1	64-119/24
78-59-1	Isophorone	ND		96.2	63.1	66	96.2	61.3	64	3	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	65.4	68	96.2	62.9	65	4	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	65.1	68	96.2	62.2	65	5	51-102/26
88-74-4	2-Nitroaniline	ND		96.2	81.5	85	96.2	75.1	78	8	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	80.8	84	96.2	76.1	79	6	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	83.4	87	96.2	76.9	80	8	55-120/24
91-20-3	Naphthalene	ND		96.2	64.6	67	96.2	62.3	65	4	47-100/29
98-95-3	Nitrobenzene	ND		96.2	61.8	64	96.2	57.6	60	7	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	51.2	53	96.2	51.7	54	1	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	70.8	74	96.2	66.6	69	6	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	80.6	84	96.2	76.6	80	5	64-108/23
85-01-8	Phenanthrene	ND		96.2	82.0	85	96.2	79.3	82	3	66-110/21
129-00-0	Pyrene	ND		96.2	84.5	88	96.2	78.2	81	8	64-113/23
110-86-1	Pyridine	ND		96.2	49.4	51	96.2	49.5	51	0	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	58.3	61	96.2	55.8	58	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52925-MS	X036246.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
OP52925-MSD	X036247.D	1	09/03/14	FS	09/02/14	OP52925	SX1700
FA17776-4	X036245.D	1	09/03/14	FS	09/02/14	OP52925	SX1700

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Surrogate Recoveries	MS	MSD	FA17776-4	Limits
367-12-4	2-Fluorophenol	45%	46%	36%	14-67%
4165-62-2	Phenol-d5	34%	38%	24%	10-50%
118-79-6	2,4,6-Tribromophenol	87%	84%	79%	33-118%
4165-60-0	Nitrobenzene-d5	63%	60%	71%	42-108%
321-60-8	2-Fluorobiphenyl	69%	67%	69%	40-106%
1718-51-0	Terphenyl-d14	87%	85%	90%	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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5317-MB	CD129828.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2

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	79%	70-131%
98-08-8	aaa-Trifluorotoluene	88%	69-143%

Method Blank Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5318-MB	CD129864.D	1	09/02/14	JG	n/a	n/a	GCD5318

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-3

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	80%	70-131%
98-08-8	aaa-Trifluorotoluene	89%	69-143%

Method Blank Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5320-MB	CD129915.D	1	09/04/14	JG	n/a	n/a	GCD5320

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-4

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	84%	70-131%
98-08-8	aaa-Trifluorotoluene	91%	69-143%

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5317-BS	CD129827.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.357	89	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	86%	70-131%
98-08-8	aaa-Trifluorotoluene	99%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5318-BS	CD129863.D	1	09/02/14	JG	n/a	n/a	GCD5318

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.371	93	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	90%	70-131%
98-08-8	aaa-Trifluorotoluene	99%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5320-BS	CD129914.D	1	09/04/14	JG	n/a	n/a	GCD5320

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.341	85	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	88%	70-131%
98-08-8	aaa-Trifluorotoluene	99%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17692-3MS	CD129834.D	1	08/29/14	JG	n/a	n/a	GCD5317
FA17692-3MSD	CD129835.D	1	08/29/14	JG	n/a	n/a	GCD5317
FA17692-3	CD129830.D	1	08/29/14	JG	n/a	n/a	GCD5317

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2

CAS No.	Compound	FA17692-3 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)	0.360		0.4	0.626	67*	0.4	0.619	65*	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA17692-3	Limits
460-00-4	4-Bromofluorobenzene	112%	111%	108%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	113%	102%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17769-2MS	CD129871.D	1	09/02/14	JG	n/a	n/a	GCD5318
FA17769-2MSD	CD129872.D	1	09/02/14	JG	n/a	n/a	GCD5318
FA17769-2	CD129869.D	1	09/02/14	JG	n/a	n/a	GCD5318

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-3

CAS No.	Compound	FA17769-2 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)	ND		0.4	0.367	92	0.4	0.330	83	11	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA17769-2	Limits
460-00-4	4-Bromofluorobenzene	91%	89%	84%	70-131%
98-08-8	aaa-Trifluorotoluene	97%	92%	89%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17769-5MS	CD129920.D	1	09/04/14	JG	n/a	n/a	GCD5320
FA17769-5MSD	CD129921.D	1	09/04/14	JG	n/a	n/a	GCD5320
FA17769-5	CD129918.D	1	09/04/14	JG	n/a	n/a	GCD5320

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-4

CAS No.	Compound	FA17769-5 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)	0.0696	J	0.4	0.391	80	0.4	0.379	77	3	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA17769-5	Limits
460-00-4	4-Bromofluorobenzene	90%	88%	78%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	98%	87%	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: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-MB	WW2335.D	1	09/08/14	SJL	09/02/14	OP52936	GWW89

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2, FA17765-3, FA17765-4

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	112%	50-131%

8.1.1

8

Blank Spike Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-BS	WW2334.D	1	09/08/14	SJL	09/02/14	OP52936	GWW89

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.806	81	56-123
	TPH (> C22-C36)	1	0.834	83	61-143

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

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17765
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52936-MS	WW2366.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92
OP52936-MSD	WW2367.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92
FA17738-3	WW2365.D	4	09/10/14	SJL	09/02/14	OP52936	GWW92

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA17765-1, FA17765-2, FA17765-3, FA17765-4

CAS No.	Compound	FA17738-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	1.28		1.96	3.46	111	1.96	3.08	92	12	56-123/33
	TPH (> C22-C36)	0.525		1.96	2.54	103	1.96	2.27	89	11	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA17738-3	Limits
84-15-1	o-Terphenyl	117%	107%	104%	50-131%

* = 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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					09/04/14		09/04/14
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	56.1	<300	-3.4	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.20	<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 MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/04/14					09/04/14	
Metal	FA17763-1 Original	DUP	RPD	QC Limits	FA17763-1 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	128	118	8.1	0-20	128	26300	26000	100.7	80-120
Lead	anr								
Magnesium	anr								
Manganese	1.4	5.1	113.8(a)	0-20	1.4	480	500	95.7	80-120
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/14

Metal	FA17763-1 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	128	26400	26000	101.0	0.4	20
Lead	anr					
Magnesium	anr					
Manganese	1.4	483	500	96.3	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 MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/14

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	26200	26000	100.8	80-120
Lead	anr			
Magnesium	anr			
Manganese	471	500	94.2	80-120
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/14

Metal	FA17763-1 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	128	100	21.8 (a)	0-10
Lead	anr			
Magnesium	anr			
Manganese	1.40	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27816
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/04/14

Metal	Sample ml	Final ml	FA17763-1 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	128.2	125.636	3211	0.2	150	3000	102.8	80-120
Lead										
Magnesium										
Manganese	9.8	10	1.4	1.372	56.2	0.2	2.5	50	109.7	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27816: FA17765-1, FA17765-2, FA17765-3, FA17765-1F, FA17765-2F, FA17765-3F, FA17765-4F

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: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/05/14

Metal	RL	IDL	MDL	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	-7.0	<300
Lead	5.0	1.1	1.1		
Magnesium	5000	50	56		
Manganese	15	.5	1	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 MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/05/14					09/05/14	
Metal	FA17765-4 Original	DUP	RPD	QC Limits	FA17765-4 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	191	185	3.2	0-20	191	27000	26000	103.1	80-120
Lead	anr								
Magnesium									
Manganese	80.7	80.7	0.0	0-20	80.7	578	500	99.5	80-120
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/05/14

Metal	FA17765-4 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	191	26700	26000	102.0	1.1	20
Lead	anr					
Magnesium						
Manganese	80.7	576	500	99.1	0.3	20
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/05/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	26800	26000	103.1	80-120
Lead	anr			
Magnesium				
Manganese	496	500	99.2	80-120
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/05/14

Metal	FA17765-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	191	140	26.4 (a)	0-10
Lead	anr			
Magnesium				
Manganese	80.7	86.1	6.7	0-10
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP27820
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/05/14

Metal	Sample ml	Final ml	FA17765-4 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	190.6	186.788	3296	0.2	150	3000	103.6	80-120
Lead										
Magnesium										
Manganese	9.8	10	80.7	79.086	133.7	0.2	2.5	50	109.2	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27820: FA17765-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

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: FA17765
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	GP24566/GN62964	2.0	0.0	mg/l	198	195	98.4	85-115%
Chemical Oxygen Demand	GP24589/GN63013	20	0.0	mg/l	50.0	48.1	96.2	87-122%
Chloride	GP24544/GN62942	2.0	0.0	mg/l	50	51.3	102.6	90-110%
Fluoride	GP24544/GN62942	0.20	0.0	mg/l	2.5	2.53	101.2	90-110%
Iron, Ferrous	GN62981	0.10	0.0	mg/l	.500	0.47	94.5	82-115%
Nitrogen, Ammonia	GP24643/GN63131	0.10	0.0	mg/l	2.5	2.55	102.0	90-110%
Nitrogen, Nitrate	GP24544/GN62942	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Total Kjeldahl	GP24606/GN63125	0.53	0.0	mg/l	2.63	2.74	104.4	90-110%
Solids, Total Dissolved	GN62957	100	0.0	mg/l				
Sulfate	GP24544/GN62942	2.0	0.0	mg/l	50	50.7	101.4	90-110%

Associated Samples:
Batch GN62957: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GN62981: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24544: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24566: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24589: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24606: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24643: FA17765-1, FA17765-2, FA17765-3, FA17765-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA17765
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP24566/GN62964	FA17738-1	mg/l	271	272	0.4	0-30%
Iron, Ferrous	GN62981	FA17769-1	mg/l	0.52	0.53	1.9	0-31%
Solids, Total Dissolved	GN62957	FA17764-1	mg/l	325	326	0.3	0-5%

Associated Samples:
Batch GN62957: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GN62981: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24566: FA17765-1, FA17765-2, FA17765-3, FA17765-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA17765
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	GP24589/GN63013	FA17765-1	mg/l	101	50.0	147	91.1	87-122%
Chloride	GP24544/GN62942	FA17751-2	mg/l	30.9	50	79.7	97.6	90-110%
Fluoride	GP24544/GN62942	FA17751-2	mg/l	0.21	2.5	2.6	95.6	90-110%
Nitrogen, Ammonia	GP24643/GN63131	FA17817-1	mg/l	366	2.5	421	2200.0(a)	90-110%
Nitrogen, Nitrate	GP24544/GN62942	FA17751-2	mg/l	1.6	2.5	4.2	104.0	90-110%
Nitrogen, Total Kjeldahl	GP24606/GN63125	FA17738-3	mg/l	1.3	2.63	4.7	129.5N(b)	90-110%
Sulfate	GP24544/GN62942	FA17751-2	mg/l	25.4	50	72.3	93.8	90-110%

Associated Samples:
Batch GP24544: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24589: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24606: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24643: FA17765-1, FA17765-2, FA17765-3, FA17765-4
(*) 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: FA17765
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	GP24589/GN63013	FA17765-1	mg/l	101	50.0	149	1.7	26%
Chloride	GP24544/GN62942	FA17751-2	mg/l	30.9	50	79.7	0.0	20%
Fluoride	GP24544/GN62942	FA17751-2	mg/l	0.21	2.5	2.6	0.0	20%
Nitrogen, Ammonia	GP24643/GN63131	FA17817-1	mg/l	366	2.5	457	8.2	20%
Nitrogen, Nitrate	GP24544/GN62942	FA17751-2	mg/l	1.6	2.5	4.2	0.0	20%
Nitrogen, Total Kjeldahl	GP24606/GN63125	FA17738-3	mg/l	1.3	2.63	4.6	2.2	20%
Sulfate	GP24544/GN62942	FA17751-2	mg/l	25.4	50	72.3	0.0	20%

Associated Samples:
Batch GP24544: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24589: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24606: FA17765-1, FA17765-2, FA17765-3, FA17765-4
Batch GP24643: FA17765-1, FA17765-2, FA17765-3, FA17765-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA20162

Sampling Date: 11/20/14

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **96**

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.

Norm Farmer
Technical Director

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Accutest LabLink@160286 12:31 08-Jun-2015

Sample Summary

Nation View

Job No: FA20162

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA20162-1	11/20/14	12:25	KF	11/21/14	AQ	Ground Water	SS17-MW21
FA20162-1F	11/20/14	12:25	KF	11/21/14	AQ	Groundwater Filtered	SS17-MW21
FA20162-2	11/20/14	10:55	KF	11/21/14	AQ	Ground Water	SS17-MW22
FA20162-2F	11/20/14	10:55	KF	11/21/14	AQ	Groundwater Filtered	SS17-MW22
FA20162-3	11/20/14	09:20	KF	11/21/14	AQ	Ground Water	SS17-MW23
FA20162-3F	11/20/14	09:20	KF	11/21/14	AQ	Groundwater Filtered	SS17-MW23
FA20162-4	11/20/14	00:00	KF	11/21/14	AQ	Trip Blank Water	TRIP BLANK

2

Summary of Hits

Job Number: FA20162
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20162-1	**SS17-MW21**					
Benzene		56900	1000	240	ug/l	SW846 8260B
Ethylbenzene		4590	500	140	ug/l	SW846 8260B
n-Propylbenzene		250 J	500	120	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1460	1000	120	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		553 J	1000	100	ug/l	SW846 8260B
Toluene		33500	500	100	ug/l	SW846 8260B
m,p-Xylene		13000	1000	240	ug/l	SW846 8260B
o-Xylene		4200	500	100	ug/l	SW846 8260B
2,4-Dimethylphenol [a]		96.8	48	4.8	ug/l	SW846 8270D
2-Methylphenol		1290	190	19	ug/l	SW846 8270D
3&4-Methylphenol		1520	190	45	ug/l	SW846 8270D
Phenol		1420	190	19	ug/l	SW846 8270D
1-Methylnaphthalene [a]		32.0 J	48	4.8	ug/l	SW846 8270D
2-Methylnaphthalene [a]		55.3	48	5.1	ug/l	SW846 8270D
Naphthalene [a]		297	48	4.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)		249	50	25	mg/l	SW846 8015C
TPH (C10-C22)		14.0	0.95	0.38	mg/l	SW846 8015C
TPH (> C22-C36)		1.23	0.95	0.38	mg/l	SW846 8015C
Iron		107 J	300	17	ug/l	SW846 6010C
Manganese		12.9 J	15	1.0	ug/l	SW846 6010C
BOD, 5 Day [b]		255	120	120	mg/l	SM5210 B-11
Chemical Oxygen Demand		1020	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		162	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]		0.11 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia		3.5	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		5.9	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3560	200	20	mg/l	SM2540 C-11
Sulfate		1670	50	15	mg/l	EPA 300/SW846 9056A
FA20162-1F	**SS17-MW21**					
Manganese		12.7 J	15	1.0	ug/l	SW846 6010C
FA20162-2	**SS17-MW22**					
Benzene		0.26 J	1.0	0.24	ug/l	SW846 8260B
1,2-Dichloroethane		3.3	1.0	0.24	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0822 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.454	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.351	0.048	0.019	mg/l	SW846 8015C
Iron		6740	300	17	ug/l	SW846 6010C
Manganese		5100	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		30.0	20	5.3	mg/l	SM5220 C-11

Summary of Hits

Job Number: FA20162
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Hydrogen Sulfide		0.54 J	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]		5.0	0.50	0.079	mg/l	SM3500FE B-11
Iron, Ferrous [d]		1.7	0.20	0.062	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.50	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		0.92	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7020	500	50	mg/l	SM2540 C-11
Sulfate		4380	200	60	mg/l	EPA 300/SW846 9056A
FA20162-2F	**SS17-MW22**					
Manganese		5070	15	1.0	ug/l	SW846 6010C
FA20162-3	**SS17-MW23**					
Benzene		0.63 J	1.0	0.24	ug/l	SW846 8260B
Ethylbenzene		0.64 J	1.0	0.28	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1.2 J	2.0	0.24	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.46 J	2.0	0.20	ug/l	SW846 8260B
Toluene		0.78 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		1.8 J	2.0	0.48	ug/l	SW846 8260B
o-Xylene		1.0	1.0	0.20	ug/l	SW846 8260B
2-Methylphenol		0.66 J	4.8	0.48	ug/l	SW846 8270D
Phenol		0.75 J	4.8	0.48	ug/l	SW846 8270D
Di-n-butyl phthalate		1.3 J	4.8	0.95	ug/l	SW846 8270D
Naphthalene		0.63 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.0632 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.61	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)		0.813	0.24	0.095	mg/l	SW846 8015C
Iron		12500	300	17	ug/l	SW846 6010C
Manganese		3730	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		80.0	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [c]		9.9	0.80	0.18	mg/l	SM3500FE B-11
Iron, Ferrous [d]		2.6	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia		1.2	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		0.59	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		8250	500	50	mg/l	SM2540 C-11
Sulfate		3300	200	60	mg/l	EPA 300/SW846 9056A
FA20162-3F	**SS17-MW23**					
Manganese		3500	15	1.0	ug/l	SW846 6010C
FA20162-4	**TRIP BLANK**					

No hits reported in this sample.

Summary of Hits

Job Number: FA20162
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/20/14

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

(a) Dilution required due to matrix interference.
(b) Estimated value. Result considered minimum due to low spike recovery.
(c) Calculated as: (Iron) - (Iron, Ferrous)
(d) 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-MW21		
Lab Sample ID:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0081161.D	500	11/24/14	RB	n/a	n/a	VN3575
Run #2	N0081195.D	1000	11/25/14	RB	n/a	n/a	VN3576

	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	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	56900 [a]	1000	240	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 [b]	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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	4590	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	250	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	1460	1000	120	ug/l	
108-67-8	1,3,5-Trimethylbenzene	553	1000	100	ug/l	J
127-18-4	Tetrachloroethylene	ND	500	130	ug/l	
108-88-3	Toluene	33500	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	13000	1000	240	ug/l	
95-47-6	o-Xylene	4200	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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	107%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	115%	114%	79-125%
2037-26-5	Toluene-D8	96%	95%	85-112%
460-00-4	4-Bromofluorobenzene	102%	107%	83-118%

(a) Result is from Run# 2
(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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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]	U048205.D	10	12/05/14	NJ	11/24/14	OP54008	SU2208
Run #2	U048244.D	40	12/08/14	NJ	11/24/14	OP54008	SU2210

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	480	95	ug/l	
95-57-8	2-Chlorophenol	ND	48	4.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	48	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	96.8	48	4.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	52	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	95	19	ug/l	
95-48-7	2-Methylphenol	1290 [b]	190	19	ug/l	
	3&4-Methylphenol	1520 [b]	190	45	ug/l	
88-75-5	2-Nitrophenol	ND	48	5.7	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	1420 [b]	190	19	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	9.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	5.3	ug/l	
83-32-9	Acenaphthene	ND	48	4.8	ug/l	
208-96-8	Acenaphthylene	ND	48	4.8	ug/l	
62-53-3	Aniline	ND	48	9.5	ug/l	
120-12-7	Anthracene	ND	48	5.9	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	6.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	6.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	6.8	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	7.7	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	4.9	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	48	6.4	ug/l	
85-68-7	Butyl benzyl phthalate	ND	48	7.7	ug/l	
100-51-6	Benzyl Alcohol	ND	48	9.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	5.3	ug/l	
106-47-8	4-Chloroaniline	ND	48	4.8	ug/l	
86-74-8	Carbazole	ND	48	5.9	ug/l	
218-01-9	Chrysene	ND	48	6.9	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-MW21		
Lab Sample ID:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	48	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.6	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	48	5.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	4.8	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	6.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	4.8	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	4.8	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	5.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	6.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	8.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	7.7	ug/l	
132-64-9	Dibenzofuran	ND	48	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	48	9.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	48	9.5	ug/l	
84-66-2	Diethyl phthalate	ND	48	9.5	ug/l	
131-11-3	Dimethyl phthalate	ND	48	6.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	15	ug/l	
206-44-0	Fluoranthene	ND	48	6.7	ug/l	
86-73-7	Fluorene	ND	48	4.8	ug/l	
118-74-1	Hexachlorobenzene	ND	48	6.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	48	4.8	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	9.5	ug/l	
67-72-1	Hexachloroethane	ND	48	4.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	6.0	ug/l	
78-59-1	Isophorone	ND	48	4.8	ug/l	
90-12-0	1-Methylnaphthalene	32.0	48	4.8	ug/l	J
91-57-6	2-Methylnaphthalene	55.3	48	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	48	11	ug/l	
99-09-2	3-Nitroaniline	ND	48	5.8	ug/l	
100-01-6	4-Nitroaniline	ND	48	7.2	ug/l	
91-20-3	Naphthalene	297	48	4.8	ug/l	
98-95-3	Nitrobenzene	ND	48	4.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	9.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	48	4.8	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	5.1	ug/l	
85-01-8	Phenanthrene	ND	48	5.7	ug/l	
129-00-0	Pyrene	ND	48	7.8	ug/l	
110-86-1	Pyridine	ND	95	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	4.8	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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	47%	0% c	14-67%
4165-62-2	Phenol-d5	29%	0% c	10-50%
118-79-6	2,4,6-Tribromophenol	87%	0% c	33-118%
4165-60-0	Nitrobenzene-d5	82%	0% c	42-108%
321-60-8	2-Fluorobiphenyl	80%	0% c	40-106%
1718-51-0	Terphenyl-d14	84%	0% c	39-121%

(a) Dilution required due to matrix interference.
(b) Result is from Run# 2
(c) 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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130956.D	500	11/25/14	JG	n/a	n/a	GCD5367
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	249	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	120%		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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	WW2919.D	20	12/05/14	SJL	11/25/14	OP54042	GWW121
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)	14.0	0.95	0.38	mg/l	
	TPH (> C22-C36)	1.23	0.95	0.38	mg/l	

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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	107 J	300	17	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	12.9 J	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-1	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	255	120	120	mg/l	60	11/26/14 15:00	DM	SM5210 B-11
Chemical Oxygen Demand	1020	20	5.3	mg/l	1	12/03/14 13:40	LE	SM5220 C-11
Hydrogen Sulfide	162	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [b]	0.11 J	0.40	0.047	mg/l	1	11/26/14 12:40	LM	SM3500FE B-11
Iron, Ferrous [c]	0.030 U	0.10	0.030	mg/l	1	11/21/14 14:00	LE	SM3500FE B-11
Nitrogen, Ammonia	3.5	0.10	0.030	mg/l	1	12/01/14 14:52	JC	EPA 350.1
Nitrogen, Nitrate [d]	1.3 U	2.5	1.3	mg/l	25	11/22/14 11:28	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	5.9	0.53	0.17	mg/l	1	12/04/14 11:50	JC	EPA 351.2
Solids, Total Dissolved	3560	200	20	mg/l	2	11/25/14 11:25	KC	SM2540 C-11
Sulfate	1670	50	15	mg/l	25	11/22/14 11:28	VK	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:	FA20162-1F	**Date Sampled:**	11/20/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	12.7 J	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0081162.D	1	11/24/14	RB	n/a	n/a	VN3575
Run #2	N0081196.D	1	11/25/14	RB	n/a	n/a	VN3576

	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	0.26 [a]	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 [b]	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	3.3	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	

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

J = Indicates 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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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:	SS17-MW22		
Lab Sample ID:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	121%	118%	79-125%
2037-26-5	Toluene-D8	96%	92%	85-112%
460-00-4	4-Bromofluorobenzene	100%	95%	83-118%

(a) Result is from Run# 2
(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-MW22		
Lab Sample ID:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	U048180.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.49	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 [a]	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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	ND	4.8	0.48	ug/l	
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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	37%		14-67%
4165-62-2	Phenol-d5	29%		10-50%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	66%		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-MW22		
Lab Sample ID:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130959.D	1	11/25/14	JG	n/a	n/a	GCD5367
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0822	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		70-131%
98-08-8	aaa-Trifluorotoluene	87%		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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	WW2918.D	1	12/04/14	SJL	11/25/14	OP54042	GWW121
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)	0.454	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.351	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6740	300	17	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5100	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	4.0 U	4.0	4.0	mg/l	2	11/26/14 15:00	DM	SM5210 B-11
Chemical Oxygen Demand	30.0	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	0.54 J	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [b]	5.0	0.50	0.079	mg/l	1	11/26/14 12:44	LM	SM3500FE B-11
Iron, Ferrous [c]	1.7	0.20	0.062	mg/l	2	11/21/14 14:00	LE	SM3500FE B-11
Nitrogen, Ammonia	0.50	0.10	0.030	mg/l	1	12/01/14 14:53	JC	EPA 350.1
Nitrogen, Nitrate [d]	5.0 U	10	5.0	mg/l	100	11/22/14 11:45	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.92	0.53	0.17	mg/l	1	12/04/14 11:51	JC	EPA 351.2
Solids, Total Dissolved	7020	500	50	mg/l	5	11/25/14 11:25	KC	SM2540 C-11
Sulfate	4380	200	60	mg/l	100	11/22/14 11:45	VK	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) Originally ran in hold. Re-ran at dilution beyond hold time. Dilution 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:	FA20162-2F	**Date Sampled:**	11/20/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	5070	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0081163.D	1	11/24/14	RB	n/a	n/a	VN3575
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	0.63	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 [a]	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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	0.64	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	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	1.2	2.0	0.24	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.46	2.0	0.20	ug/l	J
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.78	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	1.8	2.0	0.48	ug/l	J
95-47-6	o-Xylene	1.0	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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		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-MW23		
Lab Sample ID:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	U048206.D	1	12/05/14	NJ	11/24/14	OP54008	SU2208
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	0.66	4.8	0.48	ug/l	J
	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	0.75	4.8	0.48	ug/l	J
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	

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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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	1.3	4.8	0.95	ug/l	J
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	0.63	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-MW23		
Lab Sample ID:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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%		14-67%
4165-62-2	Phenol-d5	29%		10-50%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	74%		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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130958.D	1	11/25/14	JG	n/a	n/a	GCD5367
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0632	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	116%		70-131%
98-08-8	aaa-Trifluorotoluene	90%		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-MW23		
Lab Sample ID:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
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	WW2915.D	5	12/04/14	SJL	11/25/14	OP54042	GWW121
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)	1.61	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.813	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	12500	300	17	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3730	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day [a]	4.0 U	4.0	4.0	mg/l	2	11/26/14 15:00	DM	SM5210 B-11
Chemical Oxygen Demand	80.0	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [b]	9.9	0.80	0.18	mg/l	1	11/26/14 12:49	LM	SM3500FE B-11
Iron, Ferrous [c]	2.6	0.50	0.16	mg/l	5	11/21/14 14:00	LE	SM3500FE B-11
Nitrogen, Ammonia	1.2	0.10	0.030	mg/l	1	12/01/14 14:54	JC	EPA 350.1
Nitrogen, Nitrate [d]	5.0 U	10	5.0	mg/l	100	11/22/14 12:02	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.59	0.53	0.17	mg/l	1	12/04/14 11:52	JC	EPA 351.2
Solids, Total Dissolved	8250	500	50	mg/l	5	11/25/14 11:25	KC	SM2540 C-11
Sulfate	3300	200	60	mg/l	100	11/22/14 12:02	VK	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) Originally ran in hold. Re-ran at dilution beyond hold time. 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:	FA20162-3F	**Date Sampled:**	11/20/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	3500	15	1.0	ug/l	1	11/26/14	11/26/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12062
(2) Prep QC Batch: MP28264

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:	FA20162-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0081158.D	1	11/24/14	RB	n/a	n/a	VN3575
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 [a]	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:	FA20162-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/21/14
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:	FA20162-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/21/14
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	107%		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	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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA20162

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 11202014
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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-MW21	SS17-MW21	11/20/14	1225	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
2	SS17-MW22	SS17-MW22	11/20/14	1055	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
3	SS17-MW23	SS17-MW23	11/20/14	920	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
4	TRIP BLANK	Field QC	11/20/14		-	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. [signature]	11/20/2014		1. EX		10:00
2. EX			2. [signature] (ALSA)	11-21-14	
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: 771936007300/771936007311
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, SR = 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 3.0 2.6

4.1
4

FA20162: Chain of Custody
Page 1 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 20162 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 11-21-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

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

AIRBILL NUMBERS: 7719 3600 7300

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 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 22 26 22
- [ ] CORRECTED TEMPS: 26 30 26

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

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 LOT#

{APPLICABLE 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 ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 11-21-14 REVIEWER SIGNATURE/DATE 11-21-14

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA20162: Chain of Custody

Page 2 of 5

From: (575) 921-1600
Tony Lucero
NATIONAVIEW
BLG 1208 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

Ship Date: 20NOV14
Actlwgt: 50.0 LB
CAD: 100028651/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

1 of 3

FRI - 21 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 7719 3600 7300

0201

MASTER

XH TIXA

32811
FL-US
MCO

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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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.

FA20162: Chain of Custody
Page 3 of 5

From: (575) 921-1809
Tony Lucero
NATIONVIEW
BLG 1206 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

Ship Date: 20NOV14
ActWgt: 50.0 LB
CAD: 1009208/INET3550

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

2 of 3

FRI - 21 NOV 10:30A
PRIORITY OVERNIGHT

MPS# 7719 3600 7311
0263

Mstr# 7719 3600 7300
0281

XH TIXA

32811
FL-US
MCO

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From: (575) 921-1699
Tony Lusero
NATIONVIEW
BLG 1200 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J1422100202ew

Ship Date: 20NOV14
Act Wgt: 50.0 LB
CAD: 10002693/INET3550

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

3 of 3

FRI - 21 NOV 10:30A
PRIORITY OVERNIGHT

MPS# 7719 3600 8465
6263

Mstr# 7719 3600 7300

520H

32811
FL-US

XH TIXA

MCO

5220/J16C8A29

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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.

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-MB	N0081155.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-MB	N0081155.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-MB	N0081155.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	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	104%	83-118%

Method Blank Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3576-MB	N0081183.D	1	11/25/14	RB	n/a	n/a	VN3576

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-BS	N0081153.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	80.9	65	50-147
107-02-8	Acrolein	125	82.4	66	31-154
107-13-1	Acrylonitrile	125	111	89	58-126
71-43-2	Benzene	25	24.9	100	81-122
108-86-1	Bromobenzene	25	24.2	97	80-121
74-97-5	Bromochloromethane	25	24.0	96	76-123
75-27-4	Bromodichloromethane	25	26.2	105	79-123
75-25-2	Bromoform	25	22.8	91	66-123
104-51-8	n-Butylbenzene	25	24.8	99	79-126
135-98-8	sec-Butylbenzene	25	26.8	107	83-133
98-06-6	tert-Butylbenzene	25	25.8	103	80-133
108-90-7	Chlorobenzene	25	26.2	105	82-124
75-00-3	Chloroethane	25	25.6	102	62-144
67-66-3	Chloroform	25	26.0	104	80-124
95-49-8	o-Chlorotoluene	25	26.2	105	81-127
106-43-4	p-Chlorotoluene	25	27.3	109	83-130
110-75-8	2-Chloroethyl vinyl ether	125	192	154*	56-122
75-15-0	Carbon disulfide	25	30.5	122	66-148
56-23-5	Carbon tetrachloride	25	28.2	113	76-136
75-34-3	1,1-Dichloroethane	25	25.3	101	81-122
75-35-4	1,1-Dichloroethylene	25	29.2	117	78-137
563-58-6	1,1-Dichloropropene	25	27.9	112	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	23.6	94	64-123
106-93-4	1,2-Dibromoethane	25	24.3	97	75-120
107-06-2	1,2-Dichloroethane	25	25.8	103	75-125
78-87-5	1,2-Dichloropropane	25	24.7	99	76-124
142-28-9	1,3-Dichloropropane	25	24.9	100	80-118
594-20-7	2,2-Dichloropropane	25	26.1	104	74-139
124-48-1	Dibromochloromethane	25	25.6	102	78-122
75-71-8	Dichlorodifluoromethane	25	31.2	125	42-167
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	75-118
541-73-1	m-Dichlorobenzene	25	27.0	108	84-125
95-50-1	o-Dichlorobenzene	25	26.0	104	82-124
106-46-7	p-Dichlorobenzene	25	23.7	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.5	106	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-BS	N0081153.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.2	105	80-120
100-41-4	Ethylbenzene	25	24.8	99	81-121
591-78-6	2-Hexanone	125	115	92	61-129
87-68-3	Hexachlorobutadiene	25	25.4	102	75-142
98-82-8	Isopropylbenzene	25	27.6	110	83-132
99-87-6	p-Isopropyltoluene	25	26.7	107	79-130
108-10-1	4-Methyl-2-pentanone	125	118	94	66-122
74-83-9	Methyl bromide	25	27.5	110	59-143
74-87-3	Methyl chloride	25	26.0	104	50-159
74-95-3	Methylene bromide	25	25.1	100	78-119
75-09-2	Methylene chloride	25	26.1	104	69-135
78-93-3	Methyl ethyl ketone	125	105	84	56-143
1634-04-4	Methyl Tert Butyl Ether	25	24.0	96	72-117
91-20-3	Naphthalene	25	24.0	96	63-132
103-65-1	n-Propylbenzene	25	27.6	110	82-133
100-42-5	Styrene	25	24.2	97	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.2	105	77-122
71-55-6	1,1,1-Trichloroethane	25	27.8	111	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	23.0	92	72-120
79-00-5	1,1,2-Trichloroethane	25	24.7	99	76-119
87-61-6	1,2,3-Trichlorobenzene	25	24.6	98	68-131
96-18-4	1,2,3-Trichloropropane	25	25.2	101	77-120
120-82-1	1,2,4-Trichlorobenzene	25	24.3	97	73-129
95-63-6	1,2,4-Trimethylbenzene	25	24.5	98	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.6	98	79-120
127-18-4	Tetrachloroethylene	25	24.4	98	76-135
108-88-3	Toluene	25	24.7	99	80-120
79-01-6	Trichloroethylene	25	26.3	105	81-126
75-69-4	Trichlorofluoromethane	25	28.6	114	71-156
75-01-4	Vinyl chloride	25	28.1	112	69-159
108-05-4	Vinyl Acetate	125	142	114	43-154
	m,p-Xylene	50	53.9	108	79-126
95-47-6	o-Xylene	25	26.8	107	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3575-BS	N0081153.D	1	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3576-BS	N0081181.D	1	11/25/14	RB	n/a	n/a	VN3576

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20138-18MS	N0081173.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18MSD	N0081174.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081157.D	5	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081160.D	50	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Compound	FA20138-18 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	3680	59	6250	3740	60	2	50-147/21
107-02-8	Acrolein	ND		6250	12500	200*	6250	13600	218*	8	31-154/29
107-13-1	Acrylonitrile	ND		6250	5240	84	6250	5330	85	2	58-126/16
71-43-2	Benzene	ND		1250	1270	102	1250	1260	101	1	81-122/14
108-86-1	Bromobenzene	ND		1250	1220	98	1250	1250	100	2	80-121/14
74-97-5	Bromochloromethane	ND		1250	1220	98	1250	1190	95	2	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1280	102	1250	1300	104	2	79-123/19
75-25-2	Bromoform	ND		1250	1090	87	1250	1130	90	4	66-123/21
104-51-8	n-Butylbenzene	ND		1250	1300	104	1250	1290	103	1	79-126/16
135-98-8	sec-Butylbenzene	ND		1250	1360	109	1250	1380	110	1	83-133/16
98-06-6	tert-Butylbenzene	ND		1250	1270	102	1250	1300	104	2	80-133/16
108-90-7	Chlorobenzene	ND		1250	1370	110	1250	1350	108	1	82-124/14
75-00-3	Chloroethane	677 [a]		1250	2180	120	1250	2030	108	7	62-144/20
67-66-3	Chloroform	ND		1250	1310	105	1250	1290	103	2	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1330	106	1250	1360	109	2	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1390	111	1250	1430	114	3	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		6250	4330	69	6250	3740	60	15	56-122/23
75-15-0	Carbon disulfide	ND		1250	1280	102	1250	1320	106	3	66-148/23
56-23-5	Carbon tetrachloride	ND		1250	1420	114	1250	1320	106	7	76-136/23
75-34-3	1,1-Dichloroethane	3.8	J	1250	1270	101	1250	1270	101	0	81-122/15
75-35-4	1,1-Dichloroethylene	ND		1250	1380	110	1250	1370	110	1	78-137/18
563-58-6	1,1-Dichloropropene	ND		1250	1390	111	1250	1380	110	1	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1160	93	1250	1140	91	2	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1260	101	1250	1240	99	2	75-120/13
107-06-2	1,2-Dichloroethane	ND		1250	1290	103	1250	1280	102	1	75-125/14
78-87-5	1,2-Dichloropropane	ND		1250	1270	102	1250	1280	102	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1390	111	1250	1290	103	7	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1260	101	1250	1260	101	0	74-139/17
124-48-1	Dibromochloromethane	ND		1250	1340	107	1250	1310	105	2	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1490	119	1250	1410	113	6	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1290	103	1250	1300	104	1	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1250	100	1250	1250	100	0	75-118/23
541-73-1	m-Dichlorobenzene	ND		1250	1350	108	1250	1360	109	1	84-125/14
95-50-1	o-Dichlorobenzene	ND		1250	1290	103	1250	1310	105	2	82-124/14
106-46-7	p-Dichlorobenzene	ND		1250	1220	98	1250	1220	98	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1310	105	1250	1310	105	0	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20138-18MS	N0081173.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18MSD	N0081174.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081157.D	5	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081160.D	50	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Compound	FA20138-18 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	1310	105	1250	1290	103	2	80-120/22
100-41-4	Ethylbenzene	374		1250	1630	100	1250	1630	100	0	81-121/14
591-78-6	2-Hexanone	ND		6250	5880	94	6250	5760	92	2	61-129/18
87-68-3	Hexachlorobutadiene	ND		1250	1200	96	1250	1230	98	2	75-142/19
98-82-8	Isopropylbenzene	31.3		1250	1450	113	1250	1430	112	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		1250	1350	108	1250	1370	110	1	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		6250	6120	98	6250	6010	96	2	66-122/16
74-83-9	Methyl bromide	ND		1250	1460	117	1250	1320	106	10	59-143/19
74-87-3	Methyl chloride	ND		1250	1370	110	1250	1270	102	8	50-159/19
74-95-3	Methylene bromide	ND		1250	1250	100	1250	1230	98	2	78-119/14
75-09-2	Methylene chloride	14.0	J	1250	1290	102	1250	1290	102	0	69-135/16
78-93-3	Methyl ethyl ketone	ND		6250	4960	79	6250	4970	80	0	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1180	94	1250	1170	94	1	72-117/14
91-20-3	Naphthalene	ND		1250	1160	93	1250	1150	92	1	63-132/25
103-65-1	n-Propylbenzene	6.1		1250	1410	112	1250	1440	115	2	82-133/15
100-42-5	Styrene	ND		1250	1280	102	1250	1250	100	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1320	106	1250	1310	105	1	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		1250	1360	109	1250	1360	109	0	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1220	98	1250	1200	96	2	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		1250	1320	106	1250	1290	103	2	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1170	94	1250	1170	94	0	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1320	106	1250	1290	103	2	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1190	95	1250	1190	95	0	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0	J	1250	1240	99	1250	1270	101	2	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		1250	1240	99	1250	1270	102	2	79-120/19
127-18-4	Tetrachloroethylene	ND		1250	1260	101	1250	1250	100	1	76-135/16
108-88-3	Toluene	2.6	J	1250	1290	103	1250	1280	102	1	80-120/14
79-01-6	Trichloroethylene	ND		1250	1340	107	1250	1320	106	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1470	118	1250	1370	110	7	71-156/21
75-01-4	Vinyl chloride	ND		1250	1350	108	1250	1270	102	6	69-159/18
108-05-4	Vinyl Acetate	ND		6250	7000	112	6250	7030	112	0	43-154/14
	m,p-Xylene	985		2500	3810	113	2500	3780	112	1	79-126/15
95-47-6	o-Xylene	56.4		1250	1470	113	1250	1430	110	3	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20138-18MS	N0081173.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18MSD	N0081174.D	50	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081157.D	5	11/24/14	RB	n/a	n/a	VN3575
FA20138-18	N0081160.D	50	11/24/14	RB	n/a	n/a	VN3575

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2, FA20162-3, FA20162-4

CAS No.	Surrogate Recoveries	MS	MSD	FA20138-18	FA20138-18	Limits
1868-53-7	Dibromofluoromethane	100%	101%	103%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	108%	107%	118%	79-125%
2037-26-5	Toluene-D8	99%	100%	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	96%	100%	105%	103%	83-118%

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20170-6MS	N0081201.D	1	11/25/14	RB	n/a	n/a	VN3576
FA20170-6MSD	N0081202.D	1	11/25/14	RB	n/a	n/a	VN3576
FA20170-6	N0081200.D	1	11/25/14	RB	n/a	n/a	VN3576

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20162-1, FA20162-2

CAS No.	Compound	FA20170-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.90	I	25	26.5	102	25	23.6	91	12	81-122/14

CAS No.	Surrogate Recoveries	MS	MSD	FA20170-6	Limits
1868-53-7	Dibromofluoromethane	103%	96%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	102%	113%	79-125%
2037-26-5	Toluene-D8	94%	102%	95%	85-112%
460-00-4	4-Bromofluorobenzene	100%	98%	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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	X037115.D	1	11/25/14	ME	11/24/14	OP54008	SX1740

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	X037115.D	1	11/25/14	ME	11/24/14	OP54008	SX1740

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	X037115.D	1	11/25/14	ME	11/24/14	OP54008	SX1740

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	29%	14-67%
4165-62-2	Phenol-d5	18%	10-50%
118-79-6	2,4,6-Tribromophenol	66%	33-118%
4165-60-0	Nitrobenzene-d5	54%	42-108%
321-60-8	2-Fluorobiphenyl	56%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

Method Blank Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	L0680619.D	1	12/02/14	MV	11/24/14	OP54008	SL3571

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	Result	RL	MDL	Units	Q

Method Blank Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	U048171.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	U048171.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MB	U048171.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	29%	14-67%
4165-62-2	Phenol-d5	19%	10-50%
118-79-6	2,4,6-Tribromophenol	69%	33-118%
4165-60-0	Nitrobenzene-d5	54%	42-108%
321-60-8	2-Fluorobiphenyl	57%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-BS	U048170.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	ND	7*	10-69
95-57-8	2-Chlorophenol	50	30.8	62	52-98
59-50-7	4-Chloro-3-methyl phenol	50	31.7	63	54-103
120-83-2	2,4-Dichlorophenol	50	32.4	65	53-103
105-67-9	2,4-Dimethylphenol	50	31.6	63	43-90
51-28-5	2,4-Dinitrophenol	100	66.3	66	44-112
534-52-1	4,6-Dinitro-o-cresol	100	73.6	74	66-121
95-48-7	2-Methylphenol	50	27.3	55	43-90
	3&4-Methylphenol	100	47.3	47	36-88
88-75-5	2-Nitrophenol	50	33.8	68	53-102
100-02-7	4-Nitrophenol	100	22.7	23	18-62
87-86-5	Pentachlorophenol	100	81.0	81	61-115
108-95-2	Phenol	50	13.5	27	19-56
95-95-4	2,4,5-Trichlorophenol	50	39.3	79	62-109
88-06-2	2,4,6-Trichlorophenol	50	37.2	74	59-107
83-32-9	Acenaphthene	50	35.5	71	61-107
208-96-8	Acenaphthylene	50	35.5	71	60-104
62-53-3	Aniline	50	28.8	58	47-100
120-12-7	Anthracene	50	35.5	71	65-108
92-87-5	Benzidine	50	27.0	54	25-99
56-55-3	Benzo(a)anthracene	50	35.9	72	66-111
50-32-8	Benzo(a)pyrene	50	35.1	70	62-107
205-99-2	Benzo(b)fluoranthene	50	35.7	71	65-114
191-24-2	Benzo(g,h,i)perylene	50	37.9	76	66-116
207-08-9	Benzo(k)fluoranthene	50	35.4	71	65-114
101-55-3	4-Bromophenyl phenyl ether	50	31.2	62*	65-109
85-68-7	Butyl benzyl phthalate	50	35.5	71	65-112
100-51-6	Benzyl Alcohol	50	24.0	48	46-94
91-58-7	2-Chloronaphthalene	50	33.6	67	57-103
106-47-8	4-Chloroaniline	50	31.6	63	49-105
86-74-8	Carbazole	50	37.4	75	59-113
218-01-9	Chrysene	50	35.2	70	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	29.8	60	51-102
111-44-4	bis(2-Chloroethyl)ether	50	29.0	58	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	29.8	60	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	33.4	67	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-BS	U048170.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	29.4	59	48-97
122-66-7	1,2-Diphenylhydrazine	50	36.1	72	61-110
541-73-1	1,3-Dichlorobenzene	50	29.3	59	45-95
106-46-7	1,4-Dichlorobenzene	50	30.5	61	45-98
121-14-2	2,4-Dinitrotoluene	50	33.7	67	61-110
606-20-2	2,6-Dinitrotoluene	50	34.8	70	63-108
91-94-1	3,3'-Dichlorobenzidine	50	37.3	75	46-117
53-70-3	Dibenzo(a,h)anthracene	50	39.0	78	66-119
132-64-9	Dibenzofuran	50	36.3	73	61-106
84-74-2	Di-n-butyl phthalate	50	35.7	71	65-107
117-84-0	Di-n-octyl phthalate	50	37.5	75	62-118
84-66-2	Diethyl phthalate	50	34.5	69	64-108
131-11-3	Dimethyl phthalate	50	34.3	69	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	35.7	71	61-117
206-44-0	Fluoranthene	50	35.9	72	63-106
86-73-7	Fluorene	50	35.9	72	62-108
118-74-1	Hexachlorobenzene	50	32.7	65	63-108
87-68-3	Hexachlorobutadiene	50	31.1	62	42-102
77-47-4	Hexachlorocyclopentadiene	50	28.1	56	39-102
67-72-1	Hexachloroethane	50	28.3	57	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.7	73	64-119
78-59-1	Isophorone	50	28.4	57	43-87
90-12-0	1-Methylnaphthalene	50	32.3	65	53-102
91-57-6	2-Methylnaphthalene	50	32.2	64	51-102
88-74-4	2-Nitroaniline	50	36.2	72	54-128
99-09-2	3-Nitroaniline	50	35.1	70	56-106
100-01-6	4-Nitroaniline	50	36.2	72	55-120
91-20-3	Naphthalene	50	30.5	61	47-100
98-95-3	Nitrobenzene	50	29.3	59	50-104
62-75-9	N-Nitrosodimethylamine	50	16.4	33	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	30.6	61	52-104
86-30-6	N-Nitrosodiphenylamine	50	37.0	74	64-108
85-01-8	Phenanthrene	50	36.2	72	66-110
129-00-0	Pyrene	50	35.1	70	64-113
110-86-1	Pyridine	50	16.6	33	23-74
120-82-1	1,2,4-Trichlorobenzene	50	29.7	59	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-BS	U048170.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	34%	14-67%
4165-62-2	Phenol-d5	23%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	33-118%
4165-60-0	Nitrobenzene-d5	61%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	78%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MS	U048181.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
OP54008-MSD	U048182.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
FA20162-2	U048180.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	FA20162-2 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	51.3	27	192	58.1	30	12	10-69/39
95-57-8	2-Chlorophenol	ND		96.2	51.9	54	96.2	59.0	61	13	52-98/25
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	60.7	63	96.2	70.4	73	15	54-103/23
120-83-2	2,4-Dichlorophenol	ND		96.2	55.1	57	96.2	61.6	64	11	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	58.4	61	96.2	65.5	68	11	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	144	75	192	165	86	14	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	142	74	192	163	85	14	66-121/23
95-48-7	2-Methylphenol	ND		96.2	54.5	57	96.2	59.9	62	9	43-90/28
	3&4-Methylphenol	ND		192	106	55	192	116	60	9	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	55.9	58	96.2	62.0	64	10	53-102/29
100-02-7	4-Nitrophenol	ND		192	77.5	40	192	88.3	46	13	18-62/33
87-86-5	Pentachlorophenol	ND		192	153	80	192	178	93	15	61-115/26
108-95-2	Phenol	ND		96.2	36.1	38	96.2	39.5	41	9	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	71.2	74	96.2	82.4	86	15	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	65.1	68	96.2	73.9	77	13	59-107/23
83-32-9	Acenaphthene	ND		96.2	62.5	65	96.2	71.4	74	13	61-107/22
208-96-8	Acenaphthylene	ND		96.2	62.3	65	96.2	70.3	73	12	60-104/22
62-53-3	Aniline	ND		96.2	47.0	49	96.2	55.2	57	16	47-100/30
120-12-7	Anthracene	ND		96.2	66.0	69	96.2	76.3	79	14	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	66.7	69	96.2	78.3	81	16	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	64.3	67	96.2	76.2	79	17	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	65.9	69	96.2	78.6	82	18	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	68.0	71	96.2	79.9	83	16	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	64.7	67	96.2	75.4	78	15	65-114/24
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	56.6	59*	96.2	66.2	69	16	65-109/23
85-68-7	Butyl benzyl phthalate	ND		96.2	66.6	69	96.2	77.9	81	16	65-112/24
100-51-6	Benzyl Alcohol	ND		96.2	48.9	51	96.2	54.0	56	10	46-94/27
91-58-7	2-Chloronaphthalene	ND		96.2	57.3	60	96.2	64.1	67	11	57-103/23
106-47-8	4-Chloroaniline	ND		96.2	50.5	53	96.2	59.4	62	16	49-105/27
86-74-8	Carbazole	ND		96.2	69.7	72	96.2	82.3	86	17	59-113/21
218-01-9	Chrysene	ND		96.2	65.3	68	96.2	77.3	80	17	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	49.6	52	96.2	53.6	56	8	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	46.9	49*	96.2	53.2	55	13	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	48.5	50	96.2	54.2	56	11	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	61.0	63	96.2	70.3	73	14	62-105/20
95-50-1	1,2-Dichlorobenzene	ND		96.2	48.7	51	96.2	55.5	58	13	48-97/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MS	U048181.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
OP54008-MSD	U048182.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
FA20162-2	U048180.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	FA20162-2 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	65.1	68	96.2	75.4	78	15	61-110/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	47.7	50	96.2	55.6	58	15	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	49.7	52	96.2	57.7	60	15	45-98/25
121-14-2	2,4-Dinitrotoluene	ND		96.2	64.2	67	96.2	75.5	79	16	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	64.2	67	96.2	75.0	78	16	63-108/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	59.0	61	96.2	73.1	76	21	46-117/29
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	70.0	73	96.2	82.6	86	17	66-119/24
132-64-9	Dibenzofuran	ND		96.2	64.7	67	96.2	73.8	77	13	61-106/21
84-74-2	Di-n-butyl phthalate	ND		96.2	67.3	70	96.2	78.8	82	16	65-107/21
117-84-0	Di-n-octyl phthalate	ND		96.2	69.3	72	96.2	81.4	85	16	62-118/24
84-66-2	Diethyl phthalate	ND		96.2	64.0	67	96.2	75.0	78	16	64-108/21
131-11-3	Dimethyl phthalate	ND		96.2	63.5	66	96.2	73.8	77	15	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	67.0	70	96.2	79.2	82	17	61-117/23
206-44-0	Fluoranthene	ND		96.2	67.8	71	96.2	79.7	83	16	63-106/21
86-73-7	Fluorene	ND		96.2	65.1	68	96.2	75.0	78	14	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	60.6	63	96.2	70.6	73	15	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	51.7	54	96.2	57.6	60	11	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	45.8	48	96.2	52.3	54	13	39-102/29
67-72-1	Hexachloroethane	ND		96.2	45.6	47	96.2	52.6	55	14	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	65.8	68	96.2	78.6	82	18	64-119/24
78-59-1	Isophorone	ND		96.2	48.2	50	96.2	53.4	56	10	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	55.0	57	96.2	60.3	63	9	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	54.9	57	96.2	60.4	63	10	51-102/26
88-74-4	2-Nitroaniline	ND		96.2	66.1	69	96.2	77.6	81	16	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	63.5	66	96.2	75.8	79	18	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	68.4	71	96.2	80.2	83	16	55-120/24
91-20-3	Naphthalene	ND		96.2	51.1	53	96.2	55.8	58	9	47-100/29
98-95-3	Nitrobenzene	ND		96.2	47.7	50	96.2	53.2	55	11	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	36.4	38	96.2	41.4	43	13	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	53.3	55	96.2	58.0	60	8	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	68.7	71	96.2	79.9	83	15	64-108/23
85-01-8	Phenanthrene	ND		96.2	67.5	70	96.2	78.2	81	15	66-110/21
129-00-0	Pyrene	ND		96.2	64.9	67	96.2	75.7	79	15	64-113/23
110-86-1	Pyridine	ND		96.2	33.7	35	96.2	39.8	41	17	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	49.2	51	96.2	54.2	56	10	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54008-MS	U048181.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
OP54008-MSD	U048182.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207
FA20162-2	U048180.D	1	12/04/14	NJ	11/24/14	OP54008	SU2207

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20162-1, FA20162-2, FA20162-3

CAS No.	Surrogate Recoveries	MS	MSD	FA20162-2	Limits
367-12-4	2-Fluorophenol	39%	45%	37%	14-67%
4165-62-2	Phenol-d5	35%	39%	29%	10-50%
118-79-6	2,4,6-Tribromophenol	74%	88%	83%	33-118%
4165-60-0	Nitrobenzene-d5	52%	57%	62%	42-108%
321-60-8	2-Fluorobiphenyl	62%	67%	66%	40-106%
1718-51-0	Terphenyl-d14	75%	89%	82%	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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5367-MB	CD130954.D	1	11/25/14	JG	n/a	n/a	GCD5367

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

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

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	70-131%
98-08-8	aaa-Trifluorotoluene	86%	69-143%

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5367-BS	CD130953.D	1	11/25/14	JG	n/a	n/a	GCD5367

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.393	98	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	114%	70-131%
98-08-8	aaa-Trifluorotoluene	100%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20162-3MS	CD130960.D	1	11/25/14	JG	n/a	n/a	GCD5367
FA20162-3MSD	CD130961.D	1	11/25/14	JG	n/a	n/a	GCD5367
FA20162-3	CD130958.D	1	11/25/14	JG	n/a	n/a	GCD5367

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	FA20162-3 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)	0.0632	J	0.4	0.458	99	0.4	0.449	96	2	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA20162-3	Limits
460-00-4	4-Bromofluorobenzene	123%	119%	116%	70-131%
98-08-8	aaa-Trifluorotoluene	105%	102%	90%	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: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54042-MB	WW2914.D	1	12/04/14	SJL	11/25/14	OP54042	GWW121

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

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	105%	50-131%

Blank Spike Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54042-BS	WW2913.D	1	12/04/14	SJL	11/25/14	OP54042	GWW121

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.855	86	56-123
	TPH (> C22-C36)	1	0.945	95	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	109%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20162
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54042-MS	WW2916.D	5	12/04/14	SJL	11/25/14	OP54042	GWW121
OP54042-MSD	WW2917.D	5	12/04/14	SJL	11/25/14	OP54042	GWW121
FA20162-3	WW2915.D	5	12/04/14	SJL	11/25/14	OP54042	GWW121

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20162-1, FA20162-2, FA20162-3

CAS No.	Compound	FA20162-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	1.61		1.92	3.43	95	1.92	3.99	124*	15	56-123/33
	TPH (> C22-C36)	0.813		1.92	2.69	98	1.92	3.10	119	14	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA20162-3	Limits
84-15-1	o-Terphenyl	107%	113%	108%	50-131%

* = 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: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					11/26/14		11/26/14
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	6.9	<300	12.6	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.10	<15	0.40	<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 MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

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: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			11/26/14					11/26/14	
Metal	FA20235-1 Original	DUP	RPD	QC Limits	FA20235-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper									
Iron	586	549	6.5	0-20	586	27400	26000	103.1	80-120
Lead	anr								
Magnesium									
Manganese	20.0	19.3	3.6	0-20	20.0	565	500	109.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

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: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/26/14

Metal	FA20235-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt						
Copper						
Iron	586	28800	26000	108.5	5.0	20
Lead	anr					
Magnesium						
Manganese	20.0	575	500	111.0	1.8	20
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

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: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/26/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	29300	26000	112.7	80-120
Lead	anr			
Magnesium				
Manganese	576	500	115.2	80-120
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/26/14

Metal	FA20235-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	586	583	0.4	0-10
Lead	anr			
Magnesium				
Manganese	20.0	21.1	5.5	0-10
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28264
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/26/14

Metal	Sample ml	Final ml	FA20235-1 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	585.7	573.986	3766	0.2	150	3000	106.4	80-120
Lead										
Magnesium										
Manganese	9.8	10	20	19.6	75.1	0.2	2.5	50	111.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28264: FA20162-1, FA20162-2, FA20162-3, FA20162-1F, FA20162-2F, FA20162-3F

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: FA20162
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	GP25057/GN64272	2.0	0.0	mg/l	198	149	75.3*(a)	85-115%
Chemical Oxygen Demand	GP25076/GN64308	20	0.0	mg/l	50.0	52.5	105.0	87-122%
Chemical Oxygen Demand	GP25078/GN64310	20	0.0	mg/l	750	768	102.0	87-122%
Chloride	GP25035/GN64217	2.0	0.0	mg/l	50	49.7	99.4	90-110%
Fluoride	GP25035/GN64217	0.20	0.0	mg/l	2.5	2.68	107.2	90-110%
Iron, Ferrous	GN64202	0.10	0.0	mg/l	.500mg/l	0.47	94.4	82-115%
Nitrogen, Ammonia	GP25062/GN64289	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP25035/GN64217	0.10	0.0	mg/l	2.5	2.49	99.6	90-110%
Nitrogen, Nitrite	GP25035/GN64217	0.10	0.0	mg/l	2.5	2.72	108.8	90-110%
Nitrogen, Total Kjeldahl	GP25068/GN64317	0.53	0.0	mg/l	2.63	2.70	102.9	90-110%
Solids, Total Dissolved	GN64240	100	0.0	mg/l				
Sulfate	GP25035/GN64217	2.0	0.0	mg/l	50	49.3	98.6	90-110%

Associated Samples:
Batch GN64202: FA20162-1, FA20162-2, FA20162-3
Batch GN64240: FA20162-1, FA20162-2, FA20162-3
Batch GP25035: FA20162-1, FA20162-2, FA20162-3
Batch GP25057: FA20162-1, FA20162-2, FA20162-3
Batch GP25062: FA20162-1, FA20162-2, FA20162-3
Batch GP25068: FA20162-1, FA20162-2, FA20162-3
Batch GP25076: FA20162-2, FA20162-3
Batch GP25078: FA20162-1
(*) Outside of QC limits
(a) Seed depletion outside of acceptable QC criteria.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA20162
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP25057/GN64272	FA20152-3	mg/l	4.0 U	0.0	0.0	0-30%
Iron, Ferrous	GN64202	FA20162-1	mg/l	0.030 U	0.0	0.0	0-31%
Solids, Total Dissolved	GN64240	FA20156-4	mg/l	693	679	2.0	0-5%

Associated Samples:
Batch GN64202: FA20162-1, FA20162-2, FA20162-3
Batch GN64240: FA20162-1, FA20162-2, FA20162-3
Batch GP25057: FA20162-1, FA20162-2, FA20162-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA20162
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	GP25076/GN64308	FA20162-2	mg/l	30.0	50.0	118	175.0*(a)	87-122%
Chemical Oxygen Demand	GP25078/GN64310	FA20162-1	mg/l	1020	750Mg/l	1810	105.0	87-122%
Chloride	GP25035/GN64220	FA20167-8	mg/l	1.9	50	52.3	100.8	90-110%
Fluoride	GP25035/GN64220	FA20167-8	mg/l	0.57	2.5	3.0	97.2	90-110%
Nitrogen, Ammonia	GP25062/GN64289	FA20156-1	mg/l	0.030 U	2.5	2.8	112.0N(a)	90-110%
Nitrogen, Nitrate	GP25035/GN64220	FA20167-8	mg/l	0.0	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP25035/GN64220	FA20167-8	mg/l	0.0	2.5	2.5	100.0	90-110%
Nitrogen, Total Kjeldahl	GP25068/GN64317	FA20237-1	mg/l	1.3	2.63	4.3	114.3N(a)	90-110%
Sulfate	GP25035/GN64220	FA20167-8	mg/l	0.0	50	50.4	100.8	90-110%

Associated Samples:
Batch GP25035: FA20162-1, FA20162-2, FA20162-3
Batch GP25062: FA20162-1, FA20162-2, FA20162-3
Batch GP25068: FA20162-1, FA20162-2, FA20162-3
Batch GP25076: FA20162-2, FA20162-3
Batch GP25078: FA20162-1
(*) 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: FA20162
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	GP25076/GN64308	FA20162-2	mg/l	30.0	50.0	115	2.2	26%
Chemical Oxygen Demand	GP25078/GN64310	FA20162-1	mg/l	1020	750	1900	4.9	26%
Chloride	GP25035/GN64220	FA20167-8	mg/l	1.9	50	52.2	0.2	20%
Fluoride	GP25035/GN64220	FA20167-8	mg/l	0.57	2.5	3.1	3.3	20%
Nitrogen, Ammonia	GP25062/GN64289	FA20156-1	mg/l	0.030 U	2.5	2.7	3.6	20%
Nitrogen, Nitrate	GP25035/GN64220	FA20167-8	mg/l	0.0	2.5	2.4	0.0	20%
Nitrogen, Nitrite	GP25035/GN64220	FA20167-8	mg/l	0.0	2.5	2.5	0.0	20%
Nitrogen, Total Kjeldahl	GP25068/GN64317	FA20237-1	mg/l	1.3	2.63	4.2	2.4	20%
Sulfate	GP25035/GN64220	FA20167-8	mg/l	0.0	50	50.7	0.6	20%

Associated Samples:
Batch GP25035: FA20162-1, FA20162-2, FA20162-3
Batch GP25062: FA20162-1, FA20162-2, FA20162-3
Batch GP25068: FA20162-1, FA20162-2, FA20162-3
Batch GP25076: FA20162-2, FA20162-3
Batch GP25078: FA20162-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA20251

Sampling Date: 11/24/14

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **104**

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.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Accutest LabLink@160286 12:17 08-Jun-2015

Sample Summary

Nation View

Job No: FA20251

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA20251-1	11/24/14	08:10	KF	11/25/14	AQ	Ground Water	SS17-MW05
FA20251-1F	11/24/14	08:10	KF	11/25/14	AQ	Groundwater Filtered	SS17-MW05
FA20251-2	11/24/14	09:40	KF	11/25/14	AQ	Ground Water	SS17-MW07
FA20251-2F	11/24/14	09:40	KF	11/25/14	AQ	Groundwater Filtered	SS17-MW07
FA20251-3	11/24/14	09:40	KF	11/25/14	AQ	Ground Water	SS17-MW07-A
FA20251-3F	11/24/14	09:40	KF	11/25/14	AQ	Groundwater Filtered	SS17-MW07-A
FA20251-4	11/24/14	11:15	KF	11/25/14	AQ	Ground Water	SS17-MW08
FA20251-4F	11/24/14	11:15	KF	11/25/14	AQ	Groundwater Filtered	SS17-MW08
FA20251-5	11/24/14	00:00	KF	11/25/14	AQ	Trip Blank Water	TRIP BLANK

2

Summary of Hits

Job Number: FA20251
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/24/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20251-1	**SS17-MW05**					
Benzene		6.2 J	25	6.1	ug/l	SW846 8260B
Ethylbenzene		1750	25	7.0	ug/l	SW846 8260B
Isopropylbenzene		60.8	25	5.0	ug/l	SW846 8260B
Naphthalene		419	130	25	ug/l	SW846 8260B
n-Propylbenzene		168	25	6.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		114	50	6.1	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		5.9 J	50	5.0	ug/l	SW846 8260B
m,p-Xylene		357	50	12	ug/l	SW846 8260B
1-Methylnaphthalene [a]		51.9	47	4.7	ug/l	SW846 8270D
2-Methylnaphthalene [a]		34.0 J	47	5.0	ug/l	SW846 8270D
Naphthalene [a]		284	47	4.7	ug/l	SW846 8270D
TPH-GRO (C6-C10)		8.46	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)		1.37	0.048	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.171	0.048	0.019	mg/l	SW846 8015C
Iron		24.6 J	300	17	ug/l	SW846 6010C
Manganese		267	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		51.4	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand		67.5	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		13.5	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		0.039 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.50	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		3070	200	20	mg/l	SM2540 C-11
Sulfate		1820	50	15	mg/l	EPA 300/SW846 9056A
FA20251-1F	**SS17-MW05**					
Manganese		253	15	1.0	ug/l	SW846 6010C
FA20251-2	**SS17-MW07**					
sec-Butylbenzene		2.0	1.0	0.27	ug/l	SW846 8260B
Ethylbenzene		4.6	1.0	0.28	ug/l	SW846 8260B
Isopropylbenzene		0.26 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene		2.7 J	5.0	1.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1.2 J	2.0	0.24	ug/l	SW846 8260B
Toluene		0.40 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		1.8 J	2.0	0.48	ug/l	SW846 8260B
o-Xylene		0.40 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.408	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.280	0.047	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.0738	0.047	0.019	mg/l	SW846 8015C
Iron		261 J	300	17	ug/l	SW846 6010C

Summary of Hits

Job Number: FA20251
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/24/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Manganese	504	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	15.0 J	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	0.67 J	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.36	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.15	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [a]	0.78 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.33 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2630	200	20	mg/l	SM2540 C-11
Sulfate	1670	50	15	mg/l	EPA 300/SW846 9056A
FA20251-2F SS17-MW07					
Manganese	498	15	1.0	ug/l	SW846 6010C
FA20251-3 SS17-MW07-A					
Benzene	0.26 J	1.0	0.24	ug/l	SW846 8260B
sec-Butylbenzene	2.4	1.0	0.27	ug/l	SW846 8260B
Chloroform	0.55 J	1.0	0.31	ug/l	SW846 8260B
Carbon disulfide	0.79 J	2.0	0.20	ug/l	SW846 8260B
Ethylbenzene	8.1	1.0	0.28	ug/l	SW846 8260B
Isopropylbenzene	0.39 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene	2.8 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene	1.4	1.0	0.24	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	1.6 J	2.0	0.24	ug/l	SW846 8260B
Toluene	0.50 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene	2.5	2.0	0.48	ug/l	SW846 8260B
o-Xylene	0.50 J	1.0	0.20	ug/l	SW846 8260B
1-Methylnaphthalene	0.69 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene	2.4 J	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)	0.475	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.292	0.047	0.019	mg/l	SW846 8015C
TPH (> C22-C36)	0.0680	0.047	0.019	mg/l	SW846 8015C
Iron	295 J	300	17	ug/l	SW846 6010C
Manganese	513	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	10.0 J	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	0.59 J	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.34	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [a]	0.71 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.45 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2600	200	20	mg/l	SM2540 C-11
Sulfate	1630	50	15	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA20251
Account: Nation View
Project: Holloman AFB; SS17
Collected: 11/24/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20251-3F	**SS17-MW07-A**					
Manganese		504	15	1.0	ug/l	SW846 6010C
FA20251-4	**SS17-MW08**					
Carbon disulfide		17.9 J	100	10	ug/l	SW846 8260B
Ethylbenzene		3400	50	14	ug/l	SW846 8260B
Isopropylbenzene		67.6	50	10	ug/l	SW846 8260B
Naphthalene		283	250	50	ug/l	SW846 8260B
n-Propylbenzene		230	50	12	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		554	100	12	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		126	100	10	ug/l	SW846 8260B
m,p-Xylene		2850	100	24	ug/l	SW846 8260B
o-Xylene		11.5 J	50	10	ug/l	SW846 8260B
1-Methylnaphthalene [a]		42.6	19	1.9	ug/l	SW846 8270D
2-Methylnaphthalene [a]		21.9	19	2.0	ug/l	SW846 8270D
Naphthalene [a]		165	19	1.9	ug/l	SW846 8270D
TPH-GRO (C6-C10)		26.3	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		0.827	0.047	0.019	mg/l	SW846 8015C
TPH (> C22-C36)		0.0873	0.047	0.019	mg/l	SW846 8015C
Iron		54.4 J	300	17	ug/l	SW846 6010C
Manganese		231	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		37.1	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand		55.0	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		6.7	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]		0.054 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.10	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		0.90	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2510	200	20	mg/l	SM2540 C-11
Sulfate		1610	50	15	mg/l	EPA 300/SW846 9056A
FA20251-4F	**SS17-MW08**					
Manganese		232	15	1.0	ug/l	SW846 6010C
FA20251-5	**TRIP BLANK**					

No hits reported in this sample.

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

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0102764.D	25	12/06/14	EP	n/a	n/a	VC4115
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	630	260	ug/l	
107-02-8	Acrolein	ND	500	160	ug/l	
107-13-1	Acrylonitrile	ND	250	50	ug/l	
71-43-2	Benzene	6.2	25	6.1	ug/l	J
108-86-1	Bromobenzene	ND	25	7.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.4	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.5	ug/l	
75-25-2	Bromoform	ND	25	9.6	ug/l	
104-51-8	n-Butylbenzene	ND	25	7.6	ug/l	
135-98-8	sec-Butylbenzene	ND	25	6.8	ug/l	
98-06-6	tert-Butylbenzene	ND	25	7.2	ug/l	
108-90-7	Chlorobenzene	ND	25	6.0	ug/l	
75-00-3	Chloroethane	ND	50	13	ug/l	
67-66-3	Chloroform	ND	25	7.8	ug/l	
95-49-8	o-Chlorotoluene	ND	25	5.7	ug/l	
106-43-4	p-Chlorotoluene	ND	25	7.3	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	130	25	ug/l	
75-15-0	Carbon disulfide	ND	50	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	25	9.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	6.4	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	7.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	6.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	8.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	8.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	9.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	8.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	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:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	25	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	7.3	ug/l	
106-46-7	p-Dichlorobenzene	ND	25	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	25	8.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene [a]	ND	25	5.3	ug/l	
100-41-4	Ethylbenzene	1750	25	7.0	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	13	ug/l	
98-82-8	Isopropylbenzene	60.8	25	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	130	25	ug/l	
74-83-9	Methyl bromide	ND	50	13	ug/l	
74-87-3	Methyl chloride	ND	50	13	ug/l	
74-95-3	Methylene bromide	ND	50	7.3	ug/l	
75-09-2	Methylene chloride	ND	130	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	130	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	5.0	ug/l	
91-20-3	Naphthalene	419	130	25	ug/l	
103-65-1	n-Propylbenzene	168	25	6.0	ug/l	
100-42-5	Styrene	ND	25	5.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	8.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.9	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	7.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	13	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	14	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	114	50	6.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	5.9	50	5.0	ug/l	J
127-18-4	Tetrachloroethylene	ND	25	6.4	ug/l	
108-88-3	Toluene	ND	25	5.0	ug/l	
79-01-6	Trichloroethylene	ND	25	7.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	25	8.1	ug/l	
108-05-4	Vinyl Acetate	ND	250	50	ug/l	
	m,p-Xylene	357	50	12	ug/l	
95-47-6	o-Xylene	ND	25	5.0	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-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	105%		79-125%
2037-26-5	Toluene-D8	103%		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-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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]	L0680776.D	10	12/10/14	MV	12/01/14	OP54070	SL3578
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	ND	47	4.7	ug/l	
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	ND	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	ND	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 [b]	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-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	51.9	47	4.7	ug/l	
91-57-6	2-Methylnaphthalene	34.0	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	284	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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	32%		10-50%
118-79-6	2,4,6-Tribromophenol	104%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	85%		40-106%
1718-51-0	Terphenyl-d14	99%		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-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130973.D	20	11/26/14	JG	n/a	n/a	GCD5368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.46	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	127%		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-MW05		
Lab Sample ID:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	WW2940.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
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)	1.37	0.048	0.019	mg/l	
	TPH (> C22-C36)	0.171	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		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:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	24.6 J	300	17	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	267	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-1	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	51.4	20	20	mg/l	10	11/26/14 08:00	KC	SM5210 B-11
Chemical Oxygen Demand	67.5	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	13.5	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	12/01/14 15:33	LM	SM3500FE B-11
Iron, Ferrous [b]	0.039 J	0.10	0.030	mg/l	1	11/25/14 16:50	LE	SM3500FE B-11
Nitrogen, Ammonia	0.50	0.10	0.030	mg/l	1	12/01/14 14:59	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	11/25/14 16:07	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	12/04/14 11:53	JC	EPA 351.2
Solids, Total Dissolved	3070	200	20	mg/l	2	11/26/14 14:10	KC	SM2540 C-11
Sulfate	1820	50	15	mg/l	25	11/26/14 13:08	VK	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:	FA20251-1F	**Date Sampled:**	11/24/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	253	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0102765.D	1	12/06/14	EP	n/a	n/a	VC4115
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	2.0	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-MW07		
Lab Sample ID:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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 [a]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	4.6	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	0.26	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	2.7	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	1.2	2.0	0.24	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.40	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	1.8	2.0	0.48	ug/l	J
95-47-6	o-Xylene	0.40	1.0	0.20	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-MW07		
Lab Sample ID:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	107%		79-125%
2037-26-5	Toluene-D8	102%		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-MW07		
Lab Sample ID:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	L0680751.D	1	12/09/14	MV	12/01/14	OP54070	SL3577
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 [a]	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
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Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	28%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	63%		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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130971.D	1	11/26/14	JG	n/a	n/a	GCD5368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.408	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	126%		70-131%
98-08-8	aaa-Trifluorotoluene	99%		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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	WW2941.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
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)	0.280	0.047	0.019	mg/l	
	TPH (> C22-C36)	0.0738	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	261 J	300	17	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	504	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-2	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		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	11/26/14 08:00	KC	SM5210 B-11
Chemical Oxygen Demand	15.0 J	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	0.67 J	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	12/01/14 15:45	LM	SM3500FE B-11
Iron, Ferrous [b]	0.36	0.10	0.030	mg/l	1	11/25/14 16:50	LE	SM3500FE B-11
Nitrogen, Ammonia	0.15	0.10	0.030	mg/l	1	12/01/14 15:00	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.78 J	1.0	0.50	mg/l	10	11/25/14 16:24	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.33 J	0.53	0.17	mg/l	1	12/04/14 11:54	JC	EPA 351.2
Solids, Total Dissolved	2630	200	20	mg/l	2	11/26/14 14:10	KC	SM2540 C-11
Sulfate	1670	50	15	mg/l	25	11/26/14 14:50	VK	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:	FA20251-2F	**Date Sampled:**	11/24/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	498	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0102766.D	1	12/06/14	EP	n/a	n/a	VC4115
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	0.26	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	2.4	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	0.55	1.0	0.31	ug/l	J
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	0.79	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	
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-MW07-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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 [a]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	8.1	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	0.39	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	2.8	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	1.4	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	1.6	2.0	0.24	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	0.50	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	2.5	2.0	0.48	ug/l	
95-47-6	o-Xylene	0.50	1.0	0.20	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-MW07-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	106%		79-125%
2037-26-5	Toluene-D8	102%		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-MW07-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	L0680752.D	1	12/09/14	MV	12/01/14	OP54070	SL3577
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 [a]	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-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	0.69	4.7	0.47	ug/l	J
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	2.4	4.7	0.47	ug/l	J
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-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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%		14-67%
4165-62-2	Phenol-d5	30%		10-50%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MW07-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130977.D	1	11/26/14	JG	n/a	n/a	GCD5368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.475	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	129%		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-MW07-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	WW2942.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
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)	0.292	0.047	0.019	mg/l	
	TPH (> C22-C36)	0.0680	0.047	0.019	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 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-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		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	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	513	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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-A		
Lab Sample ID:	FA20251-3	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		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	11/26/14 08:00	KC	SM5210 B-11
Chemical Oxygen Demand	10.0 J	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	0.59 J	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	12/01/14 15:50	LM	SM3500FE B-11
Iron, Ferrous [b]	0.34	0.10	0.030	mg/l	1	11/25/14 16:50	LE	SM3500FE B-11
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	1	12/01/14 15:02	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.71 J	1.0	0.50	mg/l	10	11/25/14 16:41	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.45 J	0.53	0.17	mg/l	1	12/04/14 11:55	JC	EPA 351.2
Solids, Total Dissolved	2600	200	20	mg/l	2	11/26/14 14:10	KC	SM2540 C-11
Sulfate	1630	50	15	mg/l	25	11/26/14 15:07	VK	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-A		
Lab Sample ID:	FA20251-3F	**Date Sampled:**	11/24/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	504	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0102767.D	50	12/06/14	EP	n/a	n/a	VC4115
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	ND	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	17.9	100	10	ug/l	J
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-MW08		
Lab Sample ID:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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 [a]	ND	50	11	ug/l	
100-41-4	Ethylbenzene	3400	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	67.6	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	283	250	50	ug/l	
103-65-1	n-Propylbenzene	230	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	554	100	12	ug/l	
108-67-8	1,3,5-Trimethylbenzene	126	100	10	ug/l	
127-18-4	Tetrachloroethylene	ND	50	13	ug/l	
108-88-3	Toluene	ND	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	2850	100	24	ug/l	
95-47-6	o-Xylene	11.5	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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	105%		79-125%
2037-26-5	Toluene-D8	104%		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-MW08		
Lab Sample ID:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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]	L0680753.D	4	12/09/14	MV	12/01/14	OP54070	SL3577
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	2.0	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	95	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	38	7.6	ug/l	
95-48-7	2-Methylphenol	ND	19	1.9	ug/l	
	3&4-Methylphenol	ND	19	4.5	ug/l	
88-75-5	2-Nitrophenol	ND	19	2.3	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	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	19	3.7	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	3.8	ug/l	
120-12-7	Anthracene	ND	19	2.4	ug/l	
92-87-5	Benzidine	ND	95	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	19	2.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	19	2.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	19	2.7	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	19	3.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	19	1.9	ug/l	
101-55-3	4-Bromophenyl phenyl ether [b]	ND	19	2.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	19	3.1	ug/l	
100-51-6	Benzyl Alcohol	ND	19	3.8	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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	2.6	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	2.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	19	2.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	19	3.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	19	3.1	ug/l	
132-64-9	Dibenzofuran	ND	19	2.0	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	2.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	19	6.0	ug/l	
206-44-0	Fluoranthene	ND	19	2.7	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	3.8	ug/l	
67-72-1	Hexachloroethane	ND	19	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19	2.4	ug/l	
78-59-1	Isophorone	ND	19	1.9	ug/l	
90-12-0	1-Methylnaphthalene	42.6	19	1.9	ug/l	
91-57-6	2-Methylnaphthalene	21.9	19	2.0	ug/l	
88-74-4	2-Nitroaniline	ND	19	4.5	ug/l	
99-09-2	3-Nitroaniline	ND	19	2.3	ug/l	
100-01-6	4-Nitroaniline	ND	19	2.9	ug/l	
91-20-3	Naphthalene	165	19	1.9	ug/l	
98-95-3	Nitrobenzene	ND	19	1.9	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	19	3.8	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	2.3	ug/l	
129-00-0	Pyrene	ND	19	3.1	ug/l	
110-86-1	Pyridine	ND	38	7.6	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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	28%		10-50%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	73%		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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD130974.D	50	11/26/14	JG	n/a	n/a	GCD5368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	26.3	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	126%		70-131%
98-08-8	aaa-Trifluorotoluene	93%		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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
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	WW2943.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
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)	0.827	0.047	0.019	mg/l	
	TPH (> C22-C36)	0.0873	0.047	0.019	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 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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	54.4 J	300	17	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	231	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-4	**Date Sampled:**	11/24/14
Matrix:	AQ - Ground Water	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	37.1	20	20	mg/l	10	11/26/14 08:00	KC	SM5210 B-11
Chemical Oxygen Demand	55.0	20	5.3	mg/l	1	12/03/14 12:40	LE	SM5220 C-11
Hydrogen Sulfide	6.7	1.0	0.50	mg/l	1	11/26/14 09:15	LE	SM4500S2- F-11
Iron, Ferric [a]	0.054 J	0.40	0.047	mg/l	1	12/01/14 15:54	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/25/14 16:50	LE	SM3500FE B-11
Nitrogen, Ammonia	0.10	0.10	0.030	mg/l	1	12/01/14 15:03	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	11/25/14 16:57	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.90	0.53	0.17	mg/l	1	12/04/14 11:57	JC	EPA 351.2
Solids, Total Dissolved	2510	200	20	mg/l	2	11/26/14 14:10	KC	SM2540 C-11
Sulfate	1610	50	15	mg/l	25	11/26/14 15:24	VK	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:	FA20251-4F	**Date Sampled:**	11/24/14
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/25/14
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	232	15	1.0	ug/l	1	12/01/14	12/01/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12066
(2) Prep QC Batch: MP28274

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:	FA20251-5	**Date Sampled:**	11/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/25/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0102768.D	1	12/06/14	EP	n/a	n/a	VC4115
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:	FA20251-5	**Date Sampled:**	11/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/25/14
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 [a]	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:	FA20251-5	**Date Sampled:**	11/24/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/25/14
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	106%		79-125%
2037-26-5	Toluene-D8	103%		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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA 20251

Page: 1 of 1
Project No: 11.0019
COC Number(1): 11242014
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

	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-MW05	SS17-MW05	24-Nov-14	810		N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
2	SS17-MW07	SS17-MW07	24-Nov-14	940	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
3	SS17-MW07-a	SS17-MW07-a	24-Nov-14	940	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
4	SS17-MW08	SS17-MW08	24-Nov-14	1115	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								4
5	TRIP BLANK	Field QC	24-Nov-14		-	TB		AQ	1	☒																	1
					-																						
					-																						
					-																						
					-																						
					-																						

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]	11/24/2014		1. FX		14:00
2. FX			2. [signature] (ACTL)	11-25-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Airbill Number: 771972201887 / 771972201615
Method of Shipment: Fed Ex
Airbill Number: 771972201431 / 771972201556
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

3.2 3.0 2.8 3.2

FA20251: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 20251 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 11-25-14 14:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4

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

AIRBILL NUMBERS: 7719 7220 1887

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 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.8 2.6 2.4 2.8
- [ ] CORRECTED TEMPS: 3.2 3.0 2.8 3.2

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

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 LOT#

{APPLICABLE 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 ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 11-25-14 REVIEWER SIGNATURE/DATE Jay Jeee 11-25-14

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA20251: Chain of Custody

Page 2 of 3

From: (575) 921-1899
Tony Lucero
NATKOW/WEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J14221406200Jan

Ship Date: 24NOV14
ActWgt: 30.0 LB
CAD: 100026931/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
Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

BILL RECIPIENT

1 of 4

TRK# 7719 7220 1887
6281
MASTER

NH TIXA

TUE - 25 NOV 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

S2201/6HC8AC9

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.

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-MB	C0102751.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-MB	C0102751.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

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	0.28	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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-MB	C0102751.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	117%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-BS	C0102750.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	143	114	50-147
107-02-8	Acrolein	125	127	102	31-154
107-13-1	Acrylonitrile	125	132	106	58-126
71-43-2	Benzene	25	26.9	108	81-122
108-86-1	Bromobenzene	25	27.0	108	80-121
74-97-5	Bromochloromethane	25	27.0	108	76-123
75-27-4	Bromodichloromethane	25	29.5	118	79-123
75-25-2	Bromoform	25	27.4	110	66-123
104-51-8	n-Butylbenzene	25	26.1	104	79-126
135-98-8	sec-Butylbenzene	25	29.0	116	83-133
98-06-6	tert-Butylbenzene	25	30.0	120	80-133
108-90-7	Chlorobenzene	25	28.2	113	82-124
75-00-3	Chloroethane	25	32.5	130	62-144
67-66-3	Chloroform	25	27.7	111	80-124
95-49-8	o-Chlorotoluene	25	29.3	117	81-127
106-43-4	p-Chlorotoluene	25	29.6	118	83-130
110-75-8	2-Chloroethyl vinyl ether	125	134	107	56-122
75-15-0	Carbon disulfide	25	29.3	117	66-148
56-23-5	Carbon tetrachloride	25	28.2	113	76-136
75-34-3	1,1-Dichloroethane	25	27.2	109	81-122
75-35-4	1,1-Dichloroethylene	25	30.1	120	78-137
563-58-6	1,1-Dichloropropene	25	29.3	117	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	28.8	115	64-123
106-93-4	1,2-Dibromoethane	25	27.8	111	75-120
107-06-2	1,2-Dichloroethane	25	28.6	114	75-125
78-87-5	1,2-Dichloropropane	25	26.7	107	76-124
142-28-9	1,3-Dichloropropane	25	27.5	110	80-118
594-20-7	2,2-Dichloropropane	25	28.2	113	74-139
124-48-1	Dibromochloromethane	25	28.1	112	78-122
75-71-8	Dichlorodifluoromethane	25	32.3	129	42-167
156-59-2	cis-1,2-Dichloroethylene	25	26.7	107	78-120
10061-01-5	cis-1,3-Dichloropropene	25	27.9	112	75-118
541-73-1	m-Dichlorobenzene	25	28.9	116	84-125
95-50-1	o-Dichlorobenzene	25	29.3	117	82-124
106-46-7	p-Dichlorobenzene	25	26.2	105	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.3	105	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-BS	C0102750.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	30.2	121*	80-120
100-41-4	Ethylbenzene	25	27.0	108	81-121
591-78-6	2-Hexanone	125	128	102	61-129
87-68-3	Hexachlorobutadiene	25	28.3	113	75-142
98-82-8	Isopropylbenzene	25	30.6	122	83-132
99-87-6	p-Isopropyltoluene	25	29.3	117	79-130
108-10-1	4-Methyl-2-pentanone	125	135	108	66-122
74-83-9	Methyl bromide	25	35.3	141	59-143
74-87-3	Methyl chloride	25	26.7	107	50-159
74-95-3	Methylene bromide	25	27.5	110	78-119
75-09-2	Methylene chloride	25	26.8	107	69-135
78-93-3	Methyl ethyl ketone	125	118	94	56-143
1634-04-4	Methyl Tert Butyl Ether	25	27.2	109	72-117
91-20-3	Naphthalene	25	28.2	113	63-132
103-65-1	n-Propylbenzene	25	28.9	116	82-133
100-42-5	Styrene	25	28.9	116	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	27.6	110	77-122
71-55-6	1,1,1-Trichloroethane	25	28.1	112	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	72-120
79-00-5	1,1,2-Trichloroethane	25	26.5	106	76-119
87-61-6	1,2,3-Trichlorobenzene	25	28.5	114	68-131
96-18-4	1,2,3-Trichloropropane	25	28.8	115	77-120
120-82-1	1,2,4-Trichlorobenzene	25	27.4	110	73-129
95-63-6	1,2,4-Trimethylbenzene	25	28.0	112	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.5	110	79-120
127-18-4	Tetrachloroethylene	25	27.7	111	76-135
108-88-3	Toluene	25	26.9	108	80-120
79-01-6	Trichloroethylene	25	27.5	110	81-126
75-69-4	Trichlorofluoromethane	25	31.9	128	71-156
75-01-4	Vinyl chloride	25	30.1	120	69-159
108-05-4	Vinyl Acetate	125	106	85	43-154
	m,p-Xylene	50	57.8	116	79-126
95-47-6	o-Xylene	25	30.8	123	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4115-BS	C0102750.D	1	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20384-2MS	C0102762.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2MSD	C0102763.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2	C0102756.D	25	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Compound	FA20384-2 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		3130	3120	100	3130	3000	96	4	50-147/21
107-02-8	Acrolein	ND		3130	3550	114	3130	3460	111	3	31-154/29
107-13-1	Acrylonitrile	ND		3130	3140	100	3130	3210	103	2	58-126/16
71-43-2	Benzene	2130		625	2470	54* [a]	625	2430	48* [a]	2	81-122/14
108-86-1	Bromobenzene	ND		625	621	99	625	605	97	3	80-121/14
74-97-5	Bromochloromethane	ND		625	627	100	625	607	97	3	76-123/14
75-27-4	Bromodichloromethane	ND		625	638	102	625	612	98	4	79-123/19
75-25-2	Bromoform	ND		625	618	99	625	600	96	3	66-123/21
104-51-8	n-Butylbenzene	ND		625	622	100	625	611	98	2	79-126/16
135-98-8	sec-Butylbenzene	ND		625	607	97	625	607	97	0	83-133/16
98-06-6	tert-Butylbenzene	ND		625	624	100	625	615	98	1	80-133/16
108-90-7	Chlorobenzene	ND		625	607	97	625	590	94	3	82-124/14
75-00-3	Chloroethane	ND		625	630	101	625	639	102	1	62-144/20
67-66-3	Chloroform	ND		625	620	99	625	598	96	4	80-124/15
95-49-8	o-Chlorotoluene	ND		625	624	100	625	615	98	1	81-127/15
106-43-4	p-Chlorotoluene	ND		625	610	98	625	601	96	1	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		3130	3290	105	3130	3220	103	2	56-122/23
75-15-0	Carbon disulfide	ND		625	566	91	625	541	87	5	66-148/23
56-23-5	Carbon tetrachloride	ND		625	614	98	625	576	92	6	76-136/23
75-34-3	1,1-Dichloroethane	ND		625	598	96	625	593	95	1	81-122/15
75-35-4	1,1-Dichloroethylene	ND		625	612	98	625	588	94	4	78-137/18
563-58-6	1,1-Dichloropropene	ND		625	630	101	625	613	98	3	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		625	654	105	625	623	100	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		625	640	102	625	610	98	5	75-120/13
107-06-2	1,2-Dichloroethane	15.7		625	615	96	625	590	92	4	75-125/14
78-87-5	1,2-Dichloropropane	ND		625	613	98	625	621	99	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		625	642	103	625	621	99	3	80-118/13
594-20-7	2,2-Dichloropropane	ND		625	603	96	625	575	92	5	74-139/17
124-48-1	Dibromochloromethane	ND		625	625	100	625	613	98	2	78-122/19
75-71-8	Dichlorodifluoromethane	ND		625	604	97	625	585	94	3	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		625	613	98	625	614	98	0	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		625	618	99	625	609	97	1	75-118/23
541-73-1	m-Dichlorobenzene	ND		625	599	96	625	599	96	0	84-125/14
95-50-1	o-Dichlorobenzene	ND		625	612	98	625	613	98	0	82-124/14
106-46-7	p-Dichlorobenzene	ND		625	585	94	625	582	93	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		625	573	92	625	562	90	2	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20384-2MS	C0102762.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2MSD	C0102763.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2	C0102756.D	25	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Compound	FA20384-2 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		625	643	103	625	619	99	4	80-120/22
100-41-4	Ethylbenzene	443		625	987	87	625	953	82	4	81-121/14
591-78-6	2-Hexanone	ND		3130	3320	106	3130	3250	104	2	61-129/18
87-68-3	Hexachlorobutadiene	ND		625	524	84	625	527	84	1	75-142/19
98-82-8	Isopropylbenzene	322		625	953	101	625	926	97	3	83-132/15
99-87-6	p-Isopropyltoluene	ND		625	605	97	625	603	96	0	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		3130	3200	102	3130	3150	101	2	66-122/16
74-83-9	Methyl bromide	ND		625	628	100	625	641	103	2	59-143/19
74-87-3	Methyl chloride	ND		625	582	93	625	583	93	0	50-159/19
74-95-3	Methylene bromide	ND		625	610	98	625	597	96	2	78-119/14
75-09-2	Methylene chloride	ND		625	586	94	625	549	88	7	69-135/16
78-93-3	Methyl ethyl ketone	ND		3130	2910	93	3130	2850	91	2	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		625	622	100	625	616	99	1	72-117/14
91-20-3	Naphthalene	160		625	764	97	625	777	99	2	63-132/25
103-65-1	n-Propylbenzene	118		625	720	96	625	714	95	1	82-133/15
100-42-5	Styrene	ND		625	658	105	625	649	104	1	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		625	616	99	625	590	94	4	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		625	621	99	625	603	96	3	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	619	99	625	627	100	1	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		625	622	100	625	625	100	0	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		625	581	93	625	595	95	2	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		625	670	107	625	653	104	3	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		625	575	92	625	563	90	2	73-129/20
95-63-6	1,2,4-Trimethylbenzene	665		625	1190	84	625	1180	82	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	45.5		625	667	99	625	658	98	1	79-120/19
127-18-4	Tetrachloroethylene	ND		625	591	95	625	570	91	4	76-135/16
108-88-3	Toluene	85.0		625	695	98	625	678	95	2	80-120/14
79-01-6	Trichloroethylene	ND		625	606	97	625	591	95	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		625	646	103	625	624	100	3	71-156/21
75-01-4	Vinyl chloride	ND		625	615	98	625	604	97	2	69-159/18
108-05-4	Vinyl Acetate	ND		3130	3160	101	3130	3120	100	1	43-154/14
	m,p-Xylene	595		1250	1760	93	1250	1700	88	3	79-126/15
95-47-6	o-Xylene	112		625	767	105	625	753	103	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20384-2MS	C0102762.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2MSD	C0102763.D	25	12/06/14	EP	n/a	n/a	VC4115
FA20384-2	C0102756.D	25	12/06/14	EP	n/a	n/a	VC4115

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-5

CAS No.	Surrogate Recoveries	MS	MSD	FA20384-2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	97%	109%	79-125%
2037-26-5	Toluene-D8	105%	104%	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	103%	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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680696.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680696.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680696.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	26%	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	69%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

Method Blank Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680731.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680731.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MB	L0680731.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	39%	14-67%
4165-62-2	Phenol-d5	31%	10-50%
118-79-6	2,4,6-Tribromophenol	74%	33-118%
4165-60-0	Nitrobenzene-d5	62%	42-108%
321-60-8	2-Fluorobiphenyl	63%	40-106%
1718-51-0	Terphenyl-d14	66%	39-121%

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680695.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	16.0	16	10-69
95-57-8	2-Chlorophenol	50	31.6	63	52-98
59-50-7	4-Chloro-3-methyl phenol	50	36.6	73	54-103
120-83-2	2,4-Dichlorophenol	50	36.4	73	53-103
105-67-9	2,4-Dimethylphenol	50	35.8	72	43-90
51-28-5	2,4-Dinitrophenol	100	84.6	85	44-112
534-52-1	4,6-Dinitro-o-cresol	100	87.5	88	66-121
95-48-7	2-Methylphenol	50	30.1	60	43-90
	3&4-Methylphenol	100	54.5	55	36-88
88-75-5	2-Nitrophenol	50	35.7	71	53-102
100-02-7	4-Nitrophenol	100	27.7	28	18-62
87-86-5	Pentachlorophenol	100	101	101	61-115
108-95-2	Phenol	50	14.2	28	19-56
95-95-4	2,4,5-Trichlorophenol	50	39.6	79	62-109
88-06-2	2,4,6-Trichlorophenol	50	37.9	76	59-107
83-32-9	Acenaphthene	50	37.1	74	61-107
208-96-8	Acenaphthylene	50	36.3	73	60-104
62-53-3	Aniline	50	32.4	65	47-100
120-12-7	Anthracene	50	37.2	74	65-108
92-87-5	Benzidine	50	21.6	43	25-99
56-55-3	Benzo(a)anthracene	50	37.7	75	66-111
50-32-8	Benzo(a)pyrene	50	34.6	69	62-107
205-99-2	Benzo(b)fluoranthene	50	38.0	76	65-114
191-24-2	Benzo(g,h,i)perylene	50	33.6	67	66-116
207-08-9	Benzo(k)fluoranthene	50	39.4	79	65-114
101-55-3	4-Bromophenyl phenyl ether	50	31.2	62*	65-109
85-68-7	Butyl benzyl phthalate	50	35.5	71	65-112
100-51-6	Benzyl Alcohol	50	29.6	59	46-94
91-58-7	2-Chloronaphthalene	50	35.9	72	57-103
106-47-8	4-Chloroaniline	50	38.0	76	49-105
86-74-8	Carbazole	50	39.7	79	59-113
218-01-9	Chrysene	50	37.8	76	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	34.9	70	51-102
111-44-4	bis(2-Chloroethyl)ether	50	31.8	64	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	36.3	73	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	33.4	67	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680695.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.9	64	48-97
122-66-7	1,2-Diphenylhydrazine	50	38.8	78	61-110
541-73-1	1,3-Dichlorobenzene	50	31.2	62	45-95
106-46-7	1,4-Dichlorobenzene	50	32.7	65	45-98
121-14-2	2,4-Dinitrotoluene	50	33.5	67	61-110
606-20-2	2,6-Dinitrotoluene	50	34.0	68	63-108
91-94-1	3,3'-Dichlorobenzidine	50	39.3	79	46-117
53-70-3	Dibenzo(a,h)anthracene	50	34.4	69	66-119
132-64-9	Dibenzofuran	50	38.9	78	61-106
84-74-2	Di-n-butyl phthalate	50	35.4	71	65-107
117-84-0	Di-n-octyl phthalate	50	42.2	84	62-118
84-66-2	Diethyl phthalate	50	37.8	76	64-108
131-11-3	Dimethyl phthalate	50	37.0	74	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	34.0	68	61-117
206-44-0	Fluoranthene	50	36.6	73	63-106
86-73-7	Fluorene	50	38.7	77	62-108
118-74-1	Hexachlorobenzene	50	33.7	67	63-108
87-68-3	Hexachlorobutadiene	50	34.8	70	42-102
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	39-102
67-72-1	Hexachloroethane	50	30.6	61	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	28.9	58*	64-119
78-59-1	Isophorone	50	32.9	66	43-87
90-12-0	1-Methylnaphthalene	50	36.6	73	53-102
91-57-6	2-Methylnaphthalene	50	38.1	76	51-102
88-74-4	2-Nitroaniline	50	36.6	73	54-128
99-09-2	3-Nitroaniline	50	37.8	76	56-106
100-01-6	4-Nitroaniline	50	37.8	76	55-120
91-20-3	Naphthalene	50	34.6	69	47-100
98-95-3	Nitrobenzene	50	33.4	67	50-104
62-75-9	N-Nitrosodimethylamine	50	21.0	42	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	35.2	70	52-104
86-30-6	N-Nitrosodiphenylamine	50	38.2	76	64-108
85-01-8	Phenanthrene	50	38.3	77	66-110
129-00-0	Pyrene	50	35.7	71	64-113
110-86-1	Pyridine	50	16.0	32	23-74
120-82-1	1,2,4-Trichlorobenzene	50	32.2	64	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680695.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-67%
4165-62-2	Phenol-d5	25%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680730.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	12.8	13	10-69
95-57-8	2-Chlorophenol	50	32.1	64	52-98
59-50-7	4-Chloro-3-methyl phenol	50	33.6	67	54-103
120-83-2	2,4-Dichlorophenol	50	33.3	67	53-103
105-67-9	2,4-Dimethylphenol	50	29.2	58	43-90
51-28-5	2,4-Dinitrophenol	100	80.2	80	44-112
534-52-1	4,6-Dinitro-o-cresol	100	84.3	84	66-121
95-48-7	2-Methylphenol	50	28.8	58	43-90
	3&4-Methylphenol	100	47.7	48	36-88
88-75-5	2-Nitrophenol	50	33.0	66	53-102
100-02-7	4-Nitrophenol	100	27.2	27	18-62
87-86-5	Pentachlorophenol	100	93.7	94	61-115
108-95-2	Phenol	50	15.1	30	19-56
95-95-4	2,4,5-Trichlorophenol	50	37.3	75	62-109
88-06-2	2,4,6-Trichlorophenol	50	36.1	72	59-107
83-32-9	Acenaphthene	50	34.3	69	61-107
208-96-8	Acenaphthylene	50	33.6	67	60-104
62-53-3	Aniline	50	30.0	60	47-100
120-12-7	Anthracene	50	34.6	69	65-108
92-87-5	Benzidine	50	23.8	48	25-99
56-55-3	Benzo(a)anthracene	50	36.7	73	66-111
50-32-8	Benzo(a)pyrene	50	33.9	68	62-107
205-99-2	Benzo(b)fluoranthene	50	34.1	68	65-114
191-24-2	Benzo(g,h,i)perylene	50	36.3	73	66-116
207-08-9	Benzo(k)fluoranthene	50	34.2	68	65-114
101-55-3	4-Bromophenyl phenyl ether	50	30.5	61*	65-109
85-68-7	Butyl benzyl phthalate	50	34.1	68	65-112
100-51-6	Benzyl Alcohol	50	29.4	59	46-94
91-58-7	2-Chloronaphthalene	50	31.9	64	57-103
106-47-8	4-Chloroaniline	50	32.8	66	49-105
86-74-8	Carbazole	50	38.1	76	59-113
218-01-9	Chrysene	50	35.2	70	66-111
111-91-1	bis(2-Chloroethoxy)methane	50	30.7	61	51-102
111-44-4	bis(2-Chloroethyl)ether	50	31.5	63	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	33.0	66	45-106
7005-72-3	4-Chlorophenyl phenyl ether	50	31.3	63	62-105

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680730.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.1	62	48-97
122-66-7	1,2-Diphenylhydrazine	50	36.2	72	61-110
541-73-1	1,3-Dichlorobenzene	50	30.9	62	45-95
106-46-7	1,4-Dichlorobenzene	50	30.7	61	45-98
121-14-2	2,4-Dinitrotoluene	50	33.5	67	61-110
606-20-2	2,6-Dinitrotoluene	50	33.7	67	63-108
91-94-1	3,3'-Dichlorobenzidine	50	35.9	72	46-117
53-70-3	Dibenzo(a,h)anthracene	50	36.9	74	66-119
132-64-9	Dibenzofuran	50	35.2	70	61-106
84-74-2	Di-n-butyl phthalate	50	35.7	71	65-107
117-84-0	Di-n-octyl phthalate	50	34.8	70	62-118
84-66-2	Diethyl phthalate	50	34.2	68	64-108
131-11-3	Dimethyl phthalate	50	33.7	67	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	34.5	69	61-117
206-44-0	Fluoranthene	50	36.4	73	63-106
86-73-7	Fluorene	50	34.5	69	62-108
118-74-1	Hexachlorobenzene	50	31.4	63	63-108
87-68-3	Hexachlorobutadiene	50	31.0	62	42-102
77-47-4	Hexachlorocyclopentadiene	50	26.7	53	39-102
67-72-1	Hexachloroethane	50	29.2	58	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	34.3	69	64-119
78-59-1	Isophorone	50	29.8	60	43-87
90-12-0	1-Methylnaphthalene	50	32.3	65	53-102
91-57-6	2-Methylnaphthalene	50	33.2	66	51-102
88-74-4	2-Nitroaniline	50	35.5	71	54-128
99-09-2	3-Nitroaniline	50	36.3	73	56-106
100-01-6	4-Nitroaniline	50	38.5	77	55-120
91-20-3	Naphthalene	50	29.2	58	47-100
98-95-3	Nitrobenzene	50	30.5	61	50-104
62-75-9	N-Nitrosodimethylamine	50	20.7	41	28-78
621-64-7	N-Nitroso-di-n-propylamine	50	32.6	65	52-104
86-30-6	N-Nitrosodiphenylamine	50	35.9	72	64-108
85-01-8	Phenanthrene	50	36.1	72	66-110
129-00-0	Pyrene	50	33.4	67	64-113
110-86-1	Pyridine	50	18.3	37	23-74
120-82-1	1,2,4-Trichlorobenzene	50	29.8	60	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-BS	L0680730.D	1	12/08/14	MV	12/01/14	OP54070	SL3576

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	41%	14-67%
4165-62-2	Phenol-d5	27%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	64%	42-108%
321-60-8	2-Fluorobiphenyl	67%	40-106%
1718-51-0	Terphenyl-d14	74%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MS	L0680710.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
OP54070-MSD	L0680711.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
FA20308-2	L0680709.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	FA20308-2 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	47 U		192	95.5	50	192	91.9	48	4	10-69/39
95-57-8	2-Chlorophenol	4.7 U		96.2	70.9	74	96.2	70.7	74	0	52-98/25
59-50-7	4-Chloro-3-methyl phenol	4.7 U		96.2	83.1	86	96.2	83.1	86	0	54-103/23
120-83-2	2,4-Dichlorophenol	4.7 U		96.2	72.2	75	96.2	74.5	77	3	53-103/26
105-67-9	2,4-Dimethylphenol	4.7 U		96.2	78.9	82	96.2	80.6	84	2	43-90/27
51-28-5	2,4-Dinitrophenol	24 U		192	179	93	192	181	94	1	44-112/25
534-52-1	4,6-Dinitro-o-cresol	9.4 U		192	182	95	192	185	96	2	66-121/23
95-48-7	2-Methylphenol	4.7 U		96.2	74.2	77	96.2	73.8	77	1	43-90/28
	3&4-Methylphenol	4.7 U		192	143	74	192	141	73	1	36-88/28
88-75-5	2-Nitrophenol	4.7 U		96.2	71.5	74	96.2	73.2	76	2	53-102/29
100-02-7	4-Nitrophenol	24 U		192	98.8	51	192	97.8	51	1	18-62/33
87-86-5	Pentachlorophenol	24 U		192	219	114	192	222	115	1	61-115/26
108-95-2	Phenol	4.7 U		96.2	46.3	48	96.2	45.4	47	2	19-56/35
95-95-4	2,4,5-Trichlorophenol	4.7 U		96.2	82.9	86	96.2	85.5	89	3	62-109/22
88-06-2	2,4,6-Trichlorophenol	4.7 U		96.2	77.7	81	96.2	80.4	84	3	59-107/23
83-32-9	Acenaphthene	4.7 U		96.2	79.0	82	96.2	79.9	83	1	61-107/22
208-96-8	Acenaphthylene	4.7 U		96.2	76.5	80	96.2	76.8	80	0	60-104/22
62-53-3	Aniline	4.7 U		96.2	82.6	86	96.2	82.0	85	1	47-100/30
120-12-7	Anthracene	4.7 U		96.2	79.9	83	96.2	79.6	83	0	65-108/20
56-55-3	Benzo(a)anthracene	4.7 U		96.2	83.0	86	96.2	84.2	88	1	66-111/22
50-32-8	Benzo(a)pyrene	4.7 U		96.2	79.8	83	96.2	80.3	84	1	62-107/23
205-99-2	Benzo(b)fluoranthene	4.7 U		96.2	81.9	85	96.2	83.6	87	2	65-114/23
191-24-2	Benzo(g,h,i)perylene	4.7 U		96.2	79.3	82	96.2	80.3	84	1	66-116/23
207-08-9	Benzo(k)fluoranthene	4.7 U		96.2	81.1	84	96.2	79.3	82	2	65-114/24
101-55-3	4-Bromophenyl phenyl ether	4.7 U		96.2	66.6	69	96.2	66.8	69	0	65-109/23
85-68-7	Butyl benzyl phthalate	4.7 U		96.2	79.7	83	96.2	80.6	84	1	65-112/24
100-51-6	Benzyl Alcohol	4.7 U		96.2	72.0	75	96.2	72.2	75	0	46-94/27
91-58-7	2-Chloronaphthalene	4.7 U		96.2	76.4	79	96.2	77.1	80	1	57-103/23
106-47-8	4-Chloroaniline	4.7 U		96.2	78.6	82	96.2	80.7	84	3	49-105/27
86-74-8	Carbazole	4.7 U		96.2	83.4	87	96.2	84.4	88	1	59-113/21
218-01-9	Chrysene	4.7 U		96.2	86.2	90	96.2	84.9	88	2	66-111/22
111-91-1	bis(2-Chloroethoxy)methane	4.7 U		96.2	70.6	73	96.2	72.3	75	2	51-102/28
111-44-4	bis(2-Chloroethyl)ether	4.7 U		96.2	67.4	70	96.2	65.9	69	2	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	4.7 U		96.2	80.1	83	96.2	76.0	79	5	45-106/26
7005-72-3	4-Chlorophenyl phenyl ether	4.7 U		96.2	74.1	77	96.2	74.6	78	1	62-105/20
95-50-1	1,2-Dichlorobenzene	4.7 U		96.2	66.8	69	96.2	65.7	68	2	48-97/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MS	L0680710.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
OP54070-MSD	L0680711.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
FA20308-2	L0680709.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	FA20308-2 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	4.7	U	96.2	84.0	87	96.2	85.8	89	2	61-110/24
541-73-1	1,3-Dichlorobenzene	4.7	U	96.2	67.6	70	96.2	65.7	68	3	45-95/25
106-46-7	1,4-Dichlorobenzene	4.7	U	96.2	71.3	74	96.2	69.2	72	3	45-98/25
121-14-2	2,4-Dinitrotoluene	4.7	U	96.2	73.9	77	96.2	74.4	77	1	61-110/21
606-20-2	2,6-Dinitrotoluene	4.7	U	96.2	69.2	72	96.2	71.3	74	3	63-108/21
91-94-1	3,3'-Dichlorobenzidine	4.7	U	96.2	75.1	78	96.2	75.2	78	0	46-117/29
53-70-3	Dibenzo(a,h)anthracene	4.7	U	96.2	81.3	85	96.2	81.9	85	1	66-119/24
132-64-9	Dibenzofuran	4.7	U	96.2	83.4	87	96.2	84.3	88	1	61-106/21
84-74-2	Di-n-butyl phthalate	4.7	U	96.2	76.9	80	96.2	77.0	80	0	65-107/21
117-84-0	Di-n-octyl phthalate	4.7	U	96.2	85.0	88	96.2	85.2	89	0	62-118/24
84-66-2	Diethyl phthalate	4.7	U	96.2	84.2	88	96.2	84.6	88	0	64-108/21
131-11-3	Dimethyl phthalate	4.7	U	96.2	80.9	84	96.2	81.7	85	1	63-106/22
117-81-7	bis(2-Ethylhexyl)phthalate	4.7	U	96.2	77.0	80	96.2	76.4	79	1	61-117/23
206-44-0	Fluoranthene	4.7	U	96.2	78.3	81	96.2	79.7	83	2	63-106/21
86-73-7	Fluorene	4.7	U	96.2	87.6	91	96.2	87.5	91	0	62-108/20
118-74-1	Hexachlorobenzene	4.7	U	96.2	71.8	75	96.2	72.0	75	0	63-108/22
87-68-3	Hexachlorobutadiene	4.7	U	96.2	70.5	73	96.2	71.2	74	1	42-102/28
77-47-4	Hexachlorocyclopentadiene	4.7	U	96.2	49.0	51	96.2	49.6	52	1	39-102/29
67-72-1	Hexachloroethane	4.7	U	96.2	62.6	65	96.2	61.8	64	1	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	U	96.2	75.0	78	96.2	78.1	81	4	64-119/24
78-59-1	Isophorone	4.7	U	96.2	69.8	73	96.2	70.6	73	1	43-87/25
90-12-0	1-Methylnaphthalene	4.7	U	96.2	77.3	80	96.2	78.1	81	1	53-102/27
91-57-6	2-Methylnaphthalene	4.7	U	96.2	81.2	84	96.2	81.8	85	1	51-102/26
88-74-4	2-Nitroaniline	4.7	U	96.2	83.1	86	96.2	85.2	89	2	54-128/24
99-09-2	3-Nitroaniline	4.7	U	96.2	82.2	85	96.2	83.9	87	2	56-106/27
100-01-6	4-Nitroaniline	4.7	U	96.2	81.0	84	96.2	83.4	87	3	55-120/24
91-20-3	Naphthalene	4.7	U	96.2	73.7	77	96.2	73.0	76	1	47-100/29
98-95-3	Nitrobenzene	4.7	U	96.2	70.1	73	96.2	70.8	74	1	50-104/28
62-75-9	N-Nitrosodimethylamine	4.7	U	96.2	63.2	66	96.2	61.2	64	3	28-78/30
621-64-7	N-Nitroso-di-n-propylamine	4.7	U	96.2	75.8	79	96.2	75.6	79	0	52-104/25
86-30-6	N-Nitrosodiphenylamine	4.7	U	96.2	83.2	87	96.2	82.7	86	1	64-108/23
85-01-8	Phenanthrene	4.7	U	96.2	83.5	87	96.2	85.4	89	2	66-110/21
129-00-0	Pyrene	4.7	U	96.2	80.6	84	96.2	81.4	85	1	64-113/23
110-86-1	Pyridine	9.4	U	96.2	48.3	50	96.2	45.7	48	6	23-74/34
120-82-1	1,2,4-Trichlorobenzene	4.7	U	96.2	66.0	69	96.2	66.9	70	1	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54070-MS	L0680710.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
OP54070-MSD	L0680711.D	1	12/05/14	MV	12/01/14	OP54070	SL3575
FA20308-2	L0680709.D	1	12/05/14	MV	12/01/14	OP54070	SL3575

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Surrogate Recoveries	MS	MSD	FA20308-2	Limits
367-12-4	2-Fluorophenol	60%	58%	41%	14-67%
4165-62-2	Phenol-d5	47%	46%	25%	10-50%
118-79-6	2,4,6-Tribromophenol	93%	96%	105%	33-118%
4165-60-0	Nitrobenzene-d5	74%	76%	88%	42-108%
321-60-8	2-Fluorobiphenyl	76%	79%	83%	40-106%
1718-51-0	Terphenyl-d14	91%	89%	84%	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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5368-MB	CD130969.D	1	11/26/14	JG	n/a	n/a	GCD5368

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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	106%	70-131%
98-08-8	aaa-Trifluorotoluene	85%	69-143%

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5368-BS	CD130968.D	1	11/26/14	JG	n/a	n/a	GCD5368

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.394	99	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	122%	70-131%
98-08-8	aaa-Trifluorotoluene	99%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20251-2MS	CD130975.D	1	11/26/14	JG	n/a	n/a	GCD5368
FA20251-2MSD	CD130976.D	1	11/26/14	JG	n/a	n/a	GCD5368
FA20251-2	CD130971.D	1	11/26/14	JG	n/a	n/a	GCD5368

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	FA20251-2 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)	0.408		0.4	0.832	106	0.4	0.825	104	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA20251-2	Limits
460-00-4	4-Bromofluorobenzene	128%	128%	126%	70-131%
98-08-8	aaa-Trifluorotoluene	110%	115%	99%	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: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54071-MB	WW2939.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

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	112%	50-131%

8.1.1

8

Blank Spike Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54071-BS	WW2938.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.878	88	56-123
	TPH (> C22-C36)	1	0.970	97	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	110%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20251
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54071-MS	WW2944.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
OP54071-MSD	WW2945.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122
FA20251-4	WW2943.D	1	12/05/14	SJL	12/01/14	OP54071	GWW122

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20251-1, FA20251-2, FA20251-3, FA20251-4

CAS No.	Compound	FA20251-4 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.827		1.92	2.97	111	1.92	2.56	90	15	56-123/33
	TPH (> C22-C36)	0.0873		1.92	2.12	106	1.92	1.80	89	16	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA20251-4	Limits
84-15-1	o-Terphenyl	115%	99%	103%	50-131%

* = 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: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					12/01/14		12/01/14
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	7.4	<300	-1.2	<300
Lead	5.0	1.1	1.1				
Magnesium	5000	50	56				
Manganese	15	.5	1	0.0	<15	0.10	<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 MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

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: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			12/01/14					12/01/14	
Metal	FA20257-2 Original	DUP	RPD	QC Limits	FA20257-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	69.6	58.3	17.7	0-20	69.6	28000	26000	107.4	80-120
Lead	anr								
Magnesium									
Manganese	8.5	8.2	3.6	0-20	8.5	547	500	107.7	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/01/14

Metal	FA20257-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	69.6	28000	26000	107.4	0.0	20
Lead	anr					
Magnesium						
Manganese	8.5	547	500	107.7	0.0	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

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: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/01/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	28000	26000	107.7	80-120
Lead	anr			
Magnesium				
Manganese	532	500	106.4	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/01/14

Metal	FA20257-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	69.6	0.00	100.0(a)	0-10
Lead	anr			
Magnesium				
Manganese	8.50	7.90	7.1	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

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: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28274
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/01/14

Metal	Sample ml	Final ml	FA20257-2 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	69.6	68.208	3284	0.2	150	3000	107.2	80-120
Lead										
Magnesium										
Manganese	9.8	10	8.5	8.33	63.5	0.2	2.5	50	110.3	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28274: FA20251-1, FA20251-2, FA20251-3, FA20251-4, FA20251-1F, FA20251-2F, FA20251-3F, FA20251-4F

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

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: FA20251
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	GP25058/GN64278	2.0	0.0	mg/l	198	200	101.1	85-115%
Chemical Oxygen Demand	GP25076/GN64308	20	0.0	mg/l	50.0	52.5	105.0	87-122%
Chloride	GP25051/GN64261	2.0	0.0	mg/l	50	49.6	99.2	90-110%
Iron, Ferrous	GN64245	0.10	0.0	mg/l	.500	0.54	109.0	82-115%
Nitrogen, Ammonia	GP25062/GN64289	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP25051/GN64261	0.10	0.0	mg/l	2.5	2.53	101.2	90-110%
Nitrogen, Nitrite	GP25051/GN64261	0.10	0.0	mg/l	2.5	2.69	107.6	90-110%
Nitrogen, Total Kjeldahl	GP25068/GN64317	0.53	0.0	mg/l	2.63	2.70	102.9	90-110%
Solids, Total Dissolved	GN64267	100	0.0	mg/l				
Sulfate	GP25051/GN64261	2.0	0.0	mg/l	50	49.6	99.2	90-110%

Associated Samples:
Batch GN64245: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GN64267: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25051: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25058: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25062: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25068: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25076: FA20251-1, FA20251-2, FA20251-3, FA20251-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA20251
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP25058/GN64278	FA20251-1	mg/l	51.4	52.3	1.7	0-30%
Iron, Ferrous	GN64245	FA20251-1	mg/l	0.039	0.0	68.5(a)	0-31%
Solids, Total Dissolved	GN64267	FA20234-1	mg/l	352	347	1.4	0-5%

Associated Samples:
Batch GN64245: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GN64267: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25058: FA20251-1, FA20251-2, FA20251-3, FA20251-4
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA20251
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	GP25076/GN64308	FA20162-2	mg/l	30.0	50.0	118	175.0*(a)	87-122%
Chloride	GP25051/GN64261	FA19867-2	mg/l	2.5	50	55.2	105.4	90-110%
Nitrogen, Ammonia	GP25062/GN64289	FA20156-1	mg/l	0.030 U	2.5	2.8	112.0N(a)	90-110%
Nitrogen, Nitrate	GP25051/GN64261	FA19867-2	mg/l	0.26	2.5	2.9	105.6	90-110%
Nitrogen, Nitrite	GP25051/GN64261	FA19867-2	mg/l	0.050 U	2.5	2.7	108.0	90-110%
Nitrogen, Total Kjeldahl	GP25068/GN64317	FA20237-1	mg/l	1.3	2.63	4.3	114.3N(a)	90-110%
Sulfate	GP25051/GN64261	FA19867-2	mg/l	1.1	50	52.3	102.4	90-110%

Associated Samples:
Batch GP25051: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25062: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25068: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25076: FA20251-1, FA20251-2, FA20251-3, FA20251-4
(*) 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: FA20251
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	GP25076/GN64308	FA20162-2	mg/l	30.0	50.0	115	2.2	26%
Chloride	GP25051/GN64261	FA19867-2	mg/l	2.5	50	55.2	0.0	20%
Nitrogen, Ammonia	GP25062/GN64289	FA20156-1	mg/l	0.030 U	2.5	2.7	3.6	20%
Nitrogen, Nitrate	GP25051/GN64261	FA19867-2	mg/l	0.26	2.5	2.9	0.0	20%
Nitrogen, Nitrite	GP25051/GN64261	FA19867-2	mg/l	0.050 U	2.5	2.7	0.0	20%
Nitrogen, Total Kjeldahl	GP25068/GN64317	FA20237-1	mg/l	1.3	2.63	4.2	2.4	20%
Sulfate	GP25051/GN64261	FA19867-2	mg/l	1.1	50	52.3	0.0	20%

Associated Samples:
Batch GP25051: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25062: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25068: FA20251-1, FA20251-2, FA20251-3, FA20251-4
Batch GP25076: FA20251-1, FA20251-2, FA20251-3, FA20251-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA21868

Sampling Date: 02/03/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **63**

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.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Accutest LabLink@160286 12:12 08-Jun-2015

Sample Summary

Nation View

Job No: FA21868

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA21868-1	02/03/15	11:35	KF	02/04/15	AQ	Ground Water	SS17-MW23
FA21868-1F	02/03/15	11:35	KF	02/04/15	AQ	Groundwater Filtered	SS17-MW23
FA21868-2	02/03/15	00:00	KF	02/04/15	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA21868
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/03/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA21868-1	**SS17-MW23**					
o-Xylene		0.30 J	1.0	0.20	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate		1.7 JB	4.8	0.95	ug/l	SW846 8270D
TPH (C10-C22)		0.937	0.094	0.038	mg/l	SW846 8015C
TPH (> C22-C36)		0.602	0.094	0.038	mg/l	SW846 8015C
Iron		10900	300	17	ug/l	SW846 6010C
Manganese		2360	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		62.1	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		0.90 J	1.3	0.32	mg/l	SM3500FE B-11
Iron, Ferrous [b]		10.0	1.0	0.30	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.96	0.10	0.030	mg/l	EPA 350.1
Solids, Total Dissolved		6960	500	50	mg/l	SM2540 C-11
Sulfate		3340	200	60	mg/l	EPA 300/SW846 9056A
FA21868-1F	**SS17-MW23**					
Manganese		2340	15	1.0	ug/l	SW846 6010C
FA21868-2	**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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0082973.D	1	02/11/15	RB	n/a	n/a	VN3663
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 [a]	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone [a]	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	0.30	1.0	0.20	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-MW23		
Lab Sample ID:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
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	99%		79-125%
2037-26-5	Toluene-D8	97%		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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
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	U049246.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.7	4.8	0.95	ug/l	JB
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
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	31%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	72%		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-MW23		
Lab Sample ID:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132209.D	1	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-131%
98-08-8	aaa-Trifluorotoluene	105%		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-MW23		
Lab Sample ID:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
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	WW3430.D	2	02/17/15	SJL	02/10/15	OP54912	GWW141
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)	0.937	0.094	0.038	mg/l	
	TPH (> C22-C36)	0.602	0.094	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	10900	300	17	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2360	15	1.0	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12201
(2) Prep QC Batch: MP28528

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:	FA21868-1	**Date Sampled:**	02/03/15
Matrix:	AQ - Ground Water	**Date Received:**	02/04/15
		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	02/09/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	62.1	20	5.3	mg/l	1	02/06/15 08:40	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.90 J	1.3	0.32	mg/l	1	02/06/15 18:17	LM	SM3500FE B-11
Iron, Ferrous [b]	10.0	1.0	0.30	mg/l	10	02/04/15 11:15	LE	SM3500FE B-11
Nitrogen, Ammonia	0.96	0.10	0.030	mg/l	1	02/10/15 11:33	JC	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	02/04/15 15:29	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.17 U	0.53	0.17	mg/l	1	02/10/15 15:30	JC	EPA 351.2
Solids, Total Dissolved	6960	500	50	mg/l	5	02/05/15 10:10	KC	SM2540 C-11
Sulfate	3340	200	60	mg/l	100	02/04/15 15:29	VK	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:	FA21868-1F	**Date Sampled:**	02/03/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/04/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2340	15	1.0	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12201
(2) Prep QC Batch: MP28528

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:	FA21868-2	**Date Sampled:**	02/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/04/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0082974.D	1	02/11/15	RB	n/a	n/a	VN3663
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 [a]	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA21868-2	**Date Sampled:**	02/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/04/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone [a]	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	FA21868-2	**Date Sampled:**	02/03/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/04/15
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	98%		79-125%
2037-26-5	Toluene-D8	100%		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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA 21868

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02032015

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

	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-MW23	SS17-MW23	03/02/15	1135	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
2	TRIP BLANK	Field QC	03/02/15		-	TB		AQ	1	☒																	1
					-																						
					-																						
					-																						
					-																						
					-																						
					-																						
					-																						

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]	2/3/2015		1. FX		09:30
2. FX			2. J. Cooke (AVA)	2-4-15	
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: 772809557077

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

4.1

4

FA21868: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 21868 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 2-4-15 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 7728 0955 7077

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: 3.2
- [ ] CORRECTED TEMPS: 3.0

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

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 LOT#

{APPLICABLE 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 ? 1

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 2-4-15 REVIEWER SIGNATURE/DATE 02-04-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA21868: Chain of Custody
Page 2 of 3

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1286 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J1610301403uv

Ship Date: 03FEB15
ActWgt: 40.0 LB
CAD: 100026531/INET3010

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 #	11-0019.73.010

TRK# 0201 7728 0955 7077

WED - 04 FEB 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

537J/A185/EE48

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.
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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: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-MB	N0082965.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-MB	N0082965.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-MB	N0082965.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-BS	N0082963.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	241	193*	50-147
107-02-8	Acrolein	125	285	228*	31-154
107-13-1	Acrylonitrile	125	99.3	79	58-126
71-43-2	Benzene	25	27.1	108	81-122
108-86-1	Bromobenzene	25	26.6	106	80-121
74-97-5	Bromochloromethane	25	26.5	106	76-123
75-27-4	Bromodichloromethane	25	25.8	103	79-123
75-25-2	Bromoform	25	25.9	104	66-123
78-93-3	2-Butanone (MEK)	125	162	130	56-143
104-51-8	n-Butylbenzene	25	27.6	110	79-126
135-98-8	sec-Butylbenzene	25	29.2	117	83-133
98-06-6	tert-Butylbenzene	25	26.5	106	80-133
75-15-0	Carbon Disulfide	25	33.7	135	66-148
56-23-5	Carbon Tetrachloride	25	30.2	121	76-136
108-90-7	Chlorobenzene	25	28.8	115	82-124
75-00-3	Chloroethane	25	29.9	120	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	118	94	56-122
67-66-3	Chloroform	25	26.1	104	80-124
95-49-8	o-Chlorotoluene	25	28.7	115	81-127
106-43-4	p-Chlorotoluene	25	28.7	115	83-130
124-48-1	Dibromochloromethane	25	28.0	112	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.4	94	64-123
106-93-4	1,2-Dibromoethane	25	26.5	106	75-120
75-71-8	Dichlorodifluoromethane	25	18.6	74	42-167
95-50-1	1,2-Dichlorobenzene	25	28.0	112	82-124
541-73-1	1,3-Dichlorobenzene	25	28.9	116	84-125
106-46-7	1,4-Dichlorobenzene	25	26.4	106	78-120
75-34-3	1,1-Dichloroethane	25	25.6	102	81-122
107-06-2	1,2-Dichloroethane	25	23.2	93	75-125
75-35-4	1,1-Dichloroethylene	25	28.2	113	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.4	110	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.5	106	76-127
78-87-5	1,2-Dichloropropane	25	27.1	108	76-124
142-28-9	1,3-Dichloropropane	25	25.9	104	80-118
594-20-7	2,2-Dichloropropane	25	29.1	116	74-139
563-58-6	1,1-Dichloropropene	25	28.8	115	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-BS	N0082963.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	27.4	110	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.3	109	80-120
100-41-4	Ethylbenzene	25	26.5	106	81-121
87-68-3	Hexachlorobutadiene	25	27.1	108	75-142
591-78-6	2-Hexanone	125	181	145*	61-129
98-82-8	Isopropylbenzene	25	28.8	115	83-132
99-87-6	p-Isopropyltoluene	25	28.8	115	79-130
74-83-9	Methyl Bromide	25	28.0	112	59-143
74-87-3	Methyl Chloride	25	22.5	90	50-159
74-95-3	Methylene Bromide	25	26.1	104	78-119
75-09-2	Methylene Chloride	25	26.6	106	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	121	97	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.6	94	72-117
91-20-3	Naphthalene	25	25.5	102	63-132
103-65-1	n-Propylbenzene	25	29.7	119	82-133
100-42-5	Styrene	25	26.9	108	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	29.3	117	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	72-120
127-18-4	Tetrachloroethylene	25	23.9	96	76-135
108-88-3	Toluene	25	27.2	109	80-120
87-61-6	1,2,3-Trichlorobenzene	25	26.5	106	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.5	106	73-129
71-55-6	1,1,1-Trichloroethane	25	25.5	102	75-130
79-00-5	1,1,2-Trichloroethane	25	27.3	109	76-119
79-01-6	Trichloroethylene	25	27.0	108	81-126
75-69-4	Trichlorofluoromethane	25	22.7	91	71-156
96-18-4	1,2,3-Trichloropropane	25	23.7	95	77-120
95-63-6	1,2,4-Trimethylbenzene	25	26.0	104	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.9	104	79-120
108-05-4	Vinyl Acetate	125	111	89	43-154
75-01-4	Vinyl Chloride	25	24.4	98	69-159
	m,p-Xylene	50	55.7	111	79-126
95-47-6	o-Xylene	25	28.0	112	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3663-BS	N0082963.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	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: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21814-1MS	N0082983.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1MSD	N0082984.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082980.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082982.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	FA21814-1 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	112	90	125	114	91	2	50-147/21
107-02-8	Acrolein	20 U [b]		125	265	212*	125	234	187*	12	31-154/29
107-13-1	Acrylonitrile	10 U [b]		125	138	110	125	137	110	1	58-126/16
71-43-2	Benzene	1.0 U		25	25.7	103	25	22.7	91	12	81-122/14
108-86-1	Bromobenzene	1.0 U		25	23.3	93	25	20.6	82	12	80-121/14
74-97-5	Bromochloromethane	1.0 U		25	26.1	104	25	22.9	92	13	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	26.4	106	25	24.4	98	8	79-123/19
75-25-2	Bromoform	1.0 U		25	22.0	88	25	21.9	88	0	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		125	96.8	77	125	102	82	5	56-143/18
104-51-8	n-Butylbenzene	1.0 U		25	17.0	68*	25	15.9	64*	7	79-126/16
135-98-8	sec-Butylbenzene	1.0 U		25	19.8	79*	25	17.7	71*	11	83-133/16
98-06-6	tert-Butylbenzene	1.0 U		25	20.2	81	25	18.2	73*	10	80-133/16
75-15-0	Carbon Disulfide	2.0 U		25	29.2	117	25	25.6	102	13	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		25	29.6	118	25	26.8	107	10	76-136/23
108-90-7	Chlorobenzene	1.0 U		25	25.0	100	25	23.4	94	7	82-124/14
75-00-3	Chloroethane	2.0 U		25	31.6	126	25	27.6	110	14	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	5.0 U [b]		125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	1.0 U		25	26.3	105	25	23.6	94	11	80-124/15
95-49-8	o-Chlorotoluene	1.0 U		25	24.1	96	25	22.4	90	7	81-127/15
106-43-4	p-Chlorotoluene	1.0 U		25	24.1	96	25	22.4	90	7	83-130/15
124-48-1	Dibromochloromethane	1.0 U		25	25.3	101	25	24.1	96	5	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	24.5	98	25	23.6	94	4	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		25	23.9	96	25	22.8	91	5	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		25	22.0	88	25	19.5	78	12	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		25	23.1	92	25	21.4	86	8	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		25	23.0	92	25	21.4	86	7	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		25	21.4	86	25	19.5	78	9	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		25	25.8	103	25	23.4	94	10	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U		25	25.5	102	25	23.4	94	9	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.8	111	25	25.3	101	9	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	25.5	102	25	23.4	94	9	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	25.9	104	25	23.1	92	11	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		25	25.6	102	25	23.2	93	10	76-124/14
142-28-9	1,3-Dichloropropane	1.0 U		25	23.8	95	25	22.3	89	7	80-118/13
594-20-7	2,2-Dichloropropane	1.0 U		25	30.3	121	25	26.9	108	12	74-139/17
563-58-6	1,1-Dichloropropene	1.0 U		25	27.8	111	25	24.1	96	14	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21814-1MS	N0082983.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1MSD	N0082984.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082980.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082982.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Compound	FA21814-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	24.0	96	25	22.7	91	6	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	23.3	93	25	22.6	90	3	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	23.7	95	25	21.3	85	11	81-121/14
87-68-3	Hexachlorobutadiene	2.0 U		25	8.1	32*	25	7.7	31*	5	75-142/19
591-78-6	2-Hexanone	10 U		125	123	98	125	124	99	1	61-129/18
98-82-8	Isopropylbenzene	1.0 U		25	23.4	94	25	21.2	85	10	83-132/15
99-87-6	p-Isopropyltoluene	1.0 U		25	19.8	79	25	17.4	70*	13	79-130/16
74-83-9	Methyl Bromide	2.0 U		25	28.6	114	25	25.4	102	12	59-143/19
74-87-3	Methyl Chloride	2.0 U		25	23.0	92	25	21.6	86	6	50-159/19
74-95-3	Methylene Bromide	2.0 U		25	24.6	98	25	23.1	92	6	78-119/14
75-09-2	Methylene Chloride	5.0 U		25	27.1	108	25	25.1	100	8	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		125	120	96	125	117	94	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	23.0	92	25	22.4	90	3	72-117/14
91-20-3	Naphthalene	5.0 U [b]		25	22.2	89	25	21.9	88	1	63-132/25
103-65-1	n-Propylbenzene	1.0 U		25	23.4	94	25	20.9	84	11	82-133/15
100-42-5	Styrene	1.0 U		25	22.1	88	25	20.0	80	10	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	27.1	108	25	24.2	97	11	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	24.3	97	25	23.6	94	3	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		25	19.2	77	25	17.2	69*	11	76-135/16
108-88-3	Toluene	1.0 U		25	23.4	94	25	20.8	83	12	80-120/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	17.9	72	25	17.4	70	3	68-131/25
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	17.9	72*	25	17.4	70*	3	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		25	26.0	104	25	22.7	91	14	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		25	24.7	99	25	22.6	90	9	76-119/14
79-01-6	Trichloroethylene	1.0 U		25	25.4	102	25	23.1	92	9	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		25	26.3	105	25	23.6	94	11	71-156/21
96-18-4	1,2,3-Trichloropropane	2.0 U		25	22.8	91	25	22.5	90	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	21.2	85	25	19.3	77*	9	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	21.2	85	25	19.0	76*	11	79-120/19
108-05-4	Vinyl Acetate	10 U [b]		125	115	92	125	110	88	4	43-154/14
75-01-4	Vinyl Chloride	1.0 U		25	25.5	102	25	22.8	91	11	69-159/18
	m,p-Xylene	2.0 U		50	49.3	99	50	44.7	89	10	79-126/15
95-47-6	o-Xylene	1.0 U		25	24.7	99	25	22.6	90	9	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21814-1MS	N0082983.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1MSD	N0082984.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082980.D	1	02/11/15	RB	n/a	n/a	VN3663
FA21814-1 [a]	N0082982.D	1	02/11/15	RB	n/a	n/a	VN3663

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21868-1, FA21868-2

CAS No.	Surrogate Recoveries	MS	MSD	FA21814-1	FA21814-1	Limits
1868-53-7	Dibromofluoromethane	104%	106%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	95%	106%	79-125%
2037-26-5	Toluene-D8	96%	96%	96%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	99%	106%	83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Result is from Run #2.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MB	U049236.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MB	U049236.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.9	5.0	1.0	ug/l	J
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MB	U049236.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	28%	10-50%
118-79-6	2,4,6-Tribromophenol	74%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
96-37-7	Cyclopentane, methyl-	2.10	6.1	ug/l	JN
	Total TIC, Semi-Volatile		6.1	ug/l	J

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-BS	U049235.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	11.0	11	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	34.6	69	54-103
95-57-8	2-Chlorophenol	50	33.0	66	52-98
120-83-2	2,4-Dichlorophenol	50	33.1	66	53-103
105-67-9	2,4-Dimethylphenol	50	32.7	65	43-90
51-28-5	2,4-Dinitrophenol	100	77.2	77	44-112
534-52-1	4,6-Dinitro-o-cresol	100	81.3	81	66-121
95-48-7	2-Methylphenol	50	28.0	56	43-90
	3&4-Methylphenol	100	54.6	55	36-88
88-75-5	2-Nitrophenol	50	33.8	68	53-102
100-02-7	4-Nitrophenol	100	30.4	30	18-62
87-86-5	Pentachlorophenol	100	90.3	90	61-115
108-95-2	Phenol	50	15.5	31	19-56
95-95-4	2,4,5-Trichlorophenol	50	38.5	77	62-109
88-06-2	2,4,6-Trichlorophenol	50	38.5	77	59-107
83-32-9	Acenaphthene	50	38.5	77	61-107
208-96-8	Acenaphthylene	50	37.9	76	60-104
62-53-3	Aniline	50	31.6	63	47-100
120-12-7	Anthracene	50	38.7	77	65-108
92-87-5	Benzidine	50	29.0	58	25-99
56-55-3	Benzo(a)anthracene	50	38.9	78	66-111
50-32-8	Benzo(a)pyrene	50	37.6	75	62-107
205-99-2	Benzo(b)fluoranthene	50	38.9	78	65-114
191-24-2	Benzo(g,h,i)perylene	50	39.9	80	66-116
207-08-9	Benzo(k)fluoranthene	50	39.5	79	65-114
100-51-6	Benzyl Alcohol	50	30.6	61	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	33.1	66	65-109
85-68-7	Butyl Benzyl Phthalate	50	37.4	75	65-112
86-74-8	Carbazole	50	39.4	79	59-113
106-47-8	4-Chloroaniline	50	34.7	69	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	32.8	66	51-102
111-44-4	bis(2-Chloroethyl)ether	50	34.0	68	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	34.8	70	45-106
91-58-7	2-Chloronaphthalene	50	35.3	71	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	37.5	75	62-105
218-01-9	Chrysene	50	38.9	78	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-BS	U049235.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	40.1	80	66-119
132-64-9	Dibenzofuran	50	38.1	76	61-106
95-50-1	1,2-Dichlorobenzene	50	29.6	59	48-97
541-73-1	1,3-Dichlorobenzene	50	29.0	58	45-95
106-46-7	1,4-Dichlorobenzene	50	29.6	59	45-98
91-94-1	3,3'-Dichlorobenzidine	50	38.4	77	46-117
84-66-2	Diethyl Phthalate	50	38.3	77	64-108
131-11-3	Dimethyl Phthalate	50	38.3	77	63-106
84-74-2	Di-n-butyl Phthalate	50	38.4	77	65-107
117-84-0	Di-n-octyl Phthalate	50	38.3	77	62-118
121-14-2	2,4-Dinitrotoluene	50	38.7	77	61-110
606-20-2	2,6-Dinitrotoluene	50	38.5	77	63-108
122-66-7	1,2-Diphenylhydrazine	50	37.8	76	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	39.4	79	61-117
206-44-0	Fluoranthene	50	38.7	77	63-106
86-73-7	Fluorene	50	40.0	80	62-108
118-74-1	Hexachlorobenzene	50	32.8	66	63-108
87-68-3	Hexachlorobutadiene	50	29.0	58	42-102
77-47-4	Hexachlorocyclopentadiene	50	22.6	45	39-102
67-72-1	Hexachloroethane	50	29.0	58	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.0	74	64-119
78-59-1	Isophorone	50	32.5	65	43-87
90-12-0	1-Methylnaphthalene	50	39.3	79	53-102
91-57-6	2-Methylnaphthalene	50	33.1	66	51-102
91-20-3	Naphthalene	50	32.1	64	47-100
88-74-4	2-Nitroaniline	50	40.9	82	54-128
99-09-2	3-Nitroaniline	50	40.6	81	56-106
100-01-6	4-Nitroaniline	50	40.2	80	55-120
98-95-3	Nitrobenzene	50	32.6	65	50-104
62-75-9	N-Nitrosodimethylamine	50	21.6	43	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	36.0	72	52-104
86-30-6	N-Nitrosodiphenylamine	50	38.9	78	64-108
85-01-8	Phenanthrene	50	39.8	80	66-110
129-00-0	Pyrene	50	37.6	75	64-113
110-86-1	Pyridine	50	18.9	38	23-74
120-82-1	1,2,4-Trichlorobenzene	50	27.7	55	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-BS	U049235.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	27%	10-50%
118-79-6	2,4,6-Tribromophenol	76%	33-118%
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MS	U049244.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
OP54849-MSD	U049245.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
FA21814-1	U049239.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	FA21814-1 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	48	U	192	47.4	25	192	63.4	33	29	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	4.8	U	96.2	40.5	42*	96.2	54.8	57	30*	54-103/23
95-57-8	2-Chlorophenol	4.8	U	96.2	37.5	39*	96.2	50.6	53	30*	52-98/25
120-83-2	2,4-Dichlorophenol	4.8	U	96.2	37.0	38*	96.2	51.3	53	32*	53-103/26
105-67-9	2,4-Dimethylphenol	4.8	U	96.2	46.7	49	96.2	57.5	60	21	43-90/27
51-28-5	2,4-Dinitrophenol	24	U	192	91.9	48	192	126	66	31*	44-112/25
534-52-1	4,6-Dinitro-o-cresol	9.5	U	192	77.7	40*	192	108	56*	33*	66-121/23
95-48-7	2-Methylphenol	4.8	U	96.2	35.0	36*	96.2	46.6	48	28	43-90/28
	3&4-Methylphenol	4.8	U	192	67.1	35*	192	90.3	47	29*	36-88/28
88-75-5	2-Nitrophenol	4.8	U	96.2	38.6	40*	96.2	53.2	55	32*	53-102/29
100-02-7	4-Nitrophenol	24	U	192	50.3	26	192	73.4	38	37*	18-62/33
87-86-5	Pentachlorophenol	24	U	192	60.7	32*	192	89.8	47*	39*	61-115/26
108-95-2	Phenol	4.8	U	96.2	24.7	26	96.2	32.4	34	27	19-56/35
95-95-4	2,4,5-Trichlorophenol	4.8	U	96.2	41.5	43*	96.2	59.0	61*	35*	62-109/22
88-06-2	2,4,6-Trichlorophenol	4.8	U	96.2	41.0	43*	96.2	57.1	59	33*	59-107/23
83-32-9	Acenaphthene	4.8	U	96.2	67.0	70	96.2	71.5	74	6	61-107/22
208-96-8	Acenaphthylene	4.8	U	96.2	66.2	69	96.2	71.1	74	7	60-104/22
62-53-3	Aniline	4.8	U	96.2	46.0	48	96.2	50.6	53	10	47-100/30
120-12-7	Anthracene	4.8	U	96.2	61.4	64*	96.2	69.9	73	13	65-108/20
56-55-3	Benzo(a)anthracene	4.8	U	96.2	57.5	60*	96.2	66.7	69	15	66-111/22
50-32-8	Benzo(a)pyrene	4.8	U	96.2	55.8	58*	96.2	64.9	67	15	62-107/23
205-99-2	Benzo(b)fluoranthene	4.8	U	96.2	57.2	59*	96.2	64.6	67	12	65-114/23
191-24-2	Benzo(g,h,i)perylene	4.8	U	96.2	57.5	60*	96.2	66.6	69	15	66-116/23
207-08-9	Benzo(k)fluoranthene	4.8	U	96.2	58.7	61*	96.2	67.9	71	15	65-114/24
100-51-6	Benzyl Alcohol	4.8	U	96.2	54.9	57	96.2	60.1	63	9	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	4.8	U	96.2	54.0	56*	96.2	61.0	63*	12	65-109/23
85-68-7	Butyl Benzyl Phthalate	4.8	U	96.2	58.7	61*	96.2	69.5	72	17	65-112/24
86-74-8	Carbazole	4.8	U	96.2	71.9	75	96.2	79.3	82	10	59-113/21
106-47-8	4-Chloroaniline	4.8	U	96.2	54.5	57	96.2	59.5	62	9	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	4.8	U	96.2	61.4	64	96.2	62.6	65	2	51-102/28
111-44-4	bis(2-Chloroethyl)ether	4.8	U	96.2	63.3	66	96.2	65.6	68	4	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	4.8	U	96.2	66.5	69	96.2	66.7	69	0	45-106/26
91-58-7	2-Chloronaphthalene	4.8	U	96.2	61.8	64	96.2	65.5	68	6	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	4.8	U	96.2	60.8	63	96.2	67.5	70	10	62-105/20
218-01-9	Chrysene	4.8	U	96.2	58.4	61*	96.2	67.4	70	14	66-111/22
53-70-3	Dibenzo(a,h)anthracene	4.8	U	96.2	59.2	62*	96.2	69.0	72	15	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MS	U049244.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
OP54849-MSD	U049245.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
FA21814-1	U049239.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Compound	FA21814-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	4.8	U	96.2	64.1	67	96.2	69.5	72	8	61-106/21
95-50-1	1,2-Dichlorobenzene	4.8	U	96.2	58.8	61	96.2	60.6	63	3	48-97/24
541-73-1	1,3-Dichlorobenzene	4.8	U	96.2	57.8	60	96.2	59.0	61	2	45-95/25
106-46-7	1,4-Dichlorobenzene	4.8	U	96.2	59.1	61	96.2	61.1	64	3	45-98/25
91-94-1	3,3'-Dichlorobenzidine	4.8	U	96.2	37.1	39*	96.2	43.2	45*	15	46-117/29
84-66-2	Diethyl Phthalate	4.8	U	96.2	68.5	71	96.2	75.6	79	10	64-108/21
131-11-3	Dimethyl Phthalate	4.8	U	96.2	70.1	73	96.2	76.3	79	8	63-106/22
84-74-2	Di-n-butyl Phthalate	4.8	U	96.2	63.1	66	96.2	71.0	74	12	65-107/21
117-84-0	Di-n-octyl Phthalate	4.8	U	96.2	59.0	61*	96.2	68.7	71	15	62-118/24
121-14-2	2,4-Dinitrotoluene	4.8	U	96.2	69.8	73	96.2	77.8	81	11	61-110/21
606-20-2	2,6-Dinitrotoluene	4.8	U	96.2	70.5	73	96.2	75.4	78	7	63-108/21
122-66-7	1,2-Diphenylhydrazine	4.8	U	96.2	65.2	68	96.2	72.1	75	10	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	2.5	JB	96.2	64.2	64	96.2	70.5	71	9	61-117/23
206-44-0	Fluoranthene	4.8	U	96.2	58.3	61*	96.2	67.2	70	14	63-106/21
86-73-7	Fluorene	4.8	U	96.2	66.3	69	96.2	73.6	77	10	62-108/20
118-74-1	Hexachlorobenzene	4.8	U	96.2	48.9	51*	96.2	56.0	58*	14	63-108/22
87-68-3	Hexachlorobutadiene	4.8	U	96.2	53.3	55	96.2	57.3	60	7	42-102/28
77-47-4	Hexachlorocyclopentadiene	4.8	U	96.2	37.9	39	96.2	43.6	45	14	39-102/29
67-72-1	Hexachloroethane	4.8	U	96.2	57.8	60	96.2	58.9	61	2	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U	96.2	53.8	56*	96.2	61.5	64	13	64-119/24
78-59-1	Isophorone	4.8	U	96.2	59.4	62	96.2	61.8	64	4	43-87/25
90-12-0	1-Methylnaphthalene	4.8	U	96.2	69.6	72	96.2	73.2	76	5	53-102/27
91-57-6	2-Methylnaphthalene	4.8	U	96.2	58.4	61	96.2	60.7	63	4	51-102/26
91-20-3	Naphthalene	4.8	U	96.2	60.1	63	96.2	62.9	65	5	47-100/29
88-74-4	2-Nitroaniline	4.8	U	96.2	76.2	79	96.2	81.1	84	6	54-128/24
99-09-2	3-Nitroaniline	4.8	U	96.2	66.8	69	96.2	73.8	77	10	56-106/27
100-01-6	4-Nitroaniline	4.8	U	96.2	68.5	71	96.2	76.5	80	11	55-120/24
98-95-3	Nitrobenzene	4.8	U	96.2	62.8	65	96.2	64.1	67	2	50-104/28
62-75-9	N-Nitrosodimethylamine	4.8	U	96.2	44.4	46	96.2	50.3	52	12	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	4.8	U	96.2	65.3	68	96.2	69.2	72	6	52-104/25
86-30-6	N-Nitrosodiphenylamine	4.8	U	96.2	69.8	73	96.2	78.0	81	11	64-108/23
85-01-8	Phenanthrene	4.8	U	96.2	64.6	67	96.2	72.4	75	11	66-110/21
129-00-0	Pyrene	4.8	U	96.2	56.5	59*	96.2	66.1	69	16	64-113/23
110-86-1	Pyridine	9.5	U	96.2	27.4	28	96.2	34.8	36	24	23-74/34
120-82-1	1,2,4-Trichlorobenzene	4.8	U	96.2	53.4	56	96.2	55.5	58	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54849-MS	U049244.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
OP54849-MSD	U049245.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252
FA21814-1	U049239.D	1	02/10/15	NJ	02/05/15	OP54849	SU2252

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21868-1

CAS No.	Surrogate Recoveries	MS	MSD	FA21814-1	Limits
367-12-4	2-Fluorophenol	27%	38%	17%	14-67%
4165-62-2	Phenol-d5	23%	31%	14%	10-50%
118-79-6	2,4,6-Tribromophenol	39%	54%	30%* [a]	33-118%
4165-60-0	Nitrobenzene-d5	64%	66%	65%	42-108%
321-60-8	2-Fluorobiphenyl	63%	67%	61%	40-106%
1718-51-0	Terphenyl-d14	33%*	44%	20%* [b]	39-121%

(a) Outside control limits.
(b) Outside control limits due to matrix interference. Confirmed by MS/MSD.

* = 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: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-MB	CD132204.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

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	84%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	69-143%

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-BS	CD132203.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.347	87	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	CD132211.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1MSD	CD132212.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1	CD132210.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

CAS No.	Compound	FA21899-1 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)	0.0716	J	0.4	0.428	89	0.4	0.408	84	5	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
460-00-4	4-Bromofluorobenzene	101%	84%	81%	70-131%
98-08-8	aaa-Trifluorotoluene	117%	101%	101%	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: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54912-MB	WW3426.D	1	02/17/15	SJL	02/10/15	OP54912	GWW141

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

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	101%	50-131%

8.1.1

8

Blank Spike Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54912-BS	WW3425.D	1	02/17/15	SJL	02/10/15	OP54912	GWW141

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	1.01	101	56-123
	TPH (> C22-C36)	1	1.06	106	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	108%	50-131%

* = Outside of Control Limits.

8.2.1

8

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21868
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54912-MS	WW3431.D	2	02/17/15	SJL	02/10/15	OP54912	GWW141
OP54912-MSD	WW3432.D	2	02/17/15	SJL	02/10/15	OP54912	GWW141
FA21868-1	WW3430.D	2	02/17/15	SJL	02/10/15	OP54912	GWW141

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21868-1

CAS No.	Compound	FA21868-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.937		1.92	3.08	111	1.92	2.65	89	15	56-123/33
	TPH (> C22-C36)	0.602		1.92	3.01	125	1.92	2.78	113	8	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA21868-1	Limits
84-15-1	o-Terphenyl	112%	103%	106%	50-131%

* = 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: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					02/06/15		02/06/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	14	14				
Antimony	6.0	1	1				
Arsenic	10	1.3	1.3				
Barium	200	1	1				
Beryllium	4.0	.2	.2				
Cadmium	5.0	.2	.2				
Calcium	1000	50	50				
Chromium	10	1	1				
Cobalt	50	.2	.2				
Copper	25	1	1				
Iron	300	17	17	5.8	<300	-21	<300
Lead	5.0	1	1.1				
Magnesium	5000	35	35				
Manganese	15	.5	1	-0.40	<15	-0.40	<15
Molybdenum	50	.3	.3				
Nickel	40	.4	.4				
Potassium	10000	200	200				
Selenium	10	2.4	2.9				
Silver	10	.7	.7				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.1	1.4				
Tin	50	.9	1				
Titanium	10	.5	1				
Vanadium	50	.5	.6				
Zinc	20	3	4.4				

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	02/06/15						02/06/15		
Metal	FA21814-1 Original	DUP	RPD	QC Limits	FA21814-1 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	3330	3350	0.6	0-20	3330	28200	26000	95.7	80-120
Lead	anr								
Magnesium	anr								
Manganese	36.3	36.1	0.6	0-20	36.3	530	500	98.7	80-120
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	FA21814-1 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	3330	27900	26000	94.5	1.1	20
Lead	anr					
Magnesium	anr					
Manganese	36.3	525	500	97.7	0.9	20
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

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	25900	26000	99.6	80-120
Lead	anr			
Magnesium	anr			
Manganese	516	500	103.2	80-120
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	FA21814-1 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	3330	3250	2.3	0-10
Lead	anr			
Magnesium	anr			
Manganese	36.3	35.5	2.2	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28528
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	Sample ml	Final ml	FA21814-1 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	3327	3260.46	5970	0.2	150	3000	90.3	80-120
Lead										
Magnesium										
Manganese	9.8	10	36.3	35.574	84.9	0.2	2.5	50	98.7	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28528: FA21868-1, FA21868-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

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: FA21868
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	GP25453/GN65112	2.0	0.0	mg/l	200	176	88.8	85-115%
Chemical Oxygen Demand	GP25446/GN65095	20	0.0	mg/l	50.0mg/l	49.7	99.4	87-122%
Chloride	GP25434/GN65071	2.0	0.0	mg/l	50	50.7	101.4	90-110%
Iron, Ferrous	GN65066	0.10	0.0	mg/l	.500	0.53	105.0	82-115%
Nitrogen, Ammonia	GP25462/GN65134	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP25434/GN65071	0.10	0.0	mg/l	2.5	2.41	96.4	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	0.53	0.0	mg/l	2.63	2.77	105.5	90-110%
Solids, Total Dissolved	GN65083	100	0.0	mg/l				
Sulfate	GP25434/GN65071	2.0	0.0	mg/l	50	51.4	102.8	90-110%

Associated Samples:
Batch GN65066: FA21868-1
Batch GN65083: FA21868-1
Batch GP25434: FA21868-1
Batch GP25446: FA21868-1
Batch GP25453: FA21868-1
Batch GP25461: FA21868-1
Batch GP25462: FA21868-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21868
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP25453/GN65112	FA21868-1	mg/l	4.0 U	0.0	0.0	0-30%
Iron, Ferrous	GN65066	FA21868-1	mg/l	10.0	10.5	4.8	0-31%
Solids, Total Dissolved	GN65083	FA21857-1	mg/l	91.0	90.0	1.1	0-5%

Associated Samples:
Batch GN65066: FA21868-1
Batch GN65083: FA21868-1
Batch GP25453: FA21868-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21868
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	GP25446/GN65095	FA21899-1	mg/l	24.8	50.0	84.5	119.0	87-122%
Chloride	GP25434/GN65071	FA21813-1	mg/l	2.8	50	55.8	106.0	90-110%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	113.6N(a)	90-110%
Nitrogen, Nitrate	GP25434/GN65071	FA21813-1	mg/l	0.14	2.5	2.4	90.4	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.4	41.9N(a)	90-110%
Sulfate	GP25434/GN65071	FA21813-1	mg/l	36.8	50	86.8	100.0	90-110%

Associated Samples:
Batch GP25434: FA21868-1
Batch GP25446: FA21868-1
Batch GP25461: FA21868-1
Batch GP25462: FA21868-1
(*) 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: FA21868
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	GP25446/GN65095	FA21899-1	mg/l	24.8	50.0	82.0	3.0	26%
Chloride	GP25434/GN65071	FA21813-1	mg/l	2.8	50	56.8	1.8	20%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	0.0	20%
Nitrogen, Nitrate	GP25434/GN65071	FA21813-1	mg/l	0.14	2.5	2.4	0.0	20%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.5	6.9	20%
Sulfate	GP25434/GN65071	FA21813-1	mg/l	36.8	50	87.8	1.1	20%

Associated Samples:
Batch GP25434: FA21868-1
Batch GP25446: FA21868-1
Batch GP25461: FA21868-1
Batch GP25462: FA21868-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA21899

Sampling Date: 02/04/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **111**

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.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Sample Summary

Nation View

Job No: FA21899

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA21899-1	02/04/15	07:45	KF	02/05/15	AQ	Ground Water	SS17-MW22
FA21899-1D	02/04/15	07:45	KF	02/05/15	AQ	Water Dup/MSD	SS17-MW22
FA21899-1F	02/04/15	07:45	KF	02/05/15	AQ	Groundwater Filtered	SS17-MW22
FA21899-1FD	02/04/15	07:45	KF	02/05/15	AQ	Water Dup/MSD	SS17-MW22
FA21899-1FS	02/04/15	07:45	KF	02/05/15	AQ	Water Matrix Spike	SS17-MW22
FA21899-1S	02/04/15	07:45	KF	02/05/15	AQ	Water Matrix Spike	SS17-MW22
FA21899-2	02/04/15	10:05	KF	02/05/15	AQ	Ground Water	SS17-MW21
FA21899-2F	02/04/15	10:05	KF	02/05/15	AQ	Groundwater Filtered	SS17-MW21
FA21899-3	02/04/15	11:40	KF	02/05/15	AQ	Ground Water	SS17-MW05
FA21899-3F	02/04/15	11:40	KF	02/05/15	AQ	Groundwater Filtered	SS17-MW05
FA21899-4	02/04/15	00:00	KF	02/05/15	AQ	Trip Blank Water	TRIP BLANK

2

Summary of Hits

Job Number: FA21899
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/04/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA21899-1	**SS17-MW22**					
1,2-Dichloroethane		3.8	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0716 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.200	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)		0.285	0.19	0.077	mg/l	SW846 8015C
Iron		6030	300	17	ug/l	SW846 6010C
Manganese		4820	15	1.0	ug/l	SW846 6010C
Sodium		1340000	200000	10000	ug/l	SW846 6010C
Chemical Oxygen Demand		24.8	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		3.1	0.80	0.17	mg/l	SM3500FE B-11
Iron, Ferrous [b]		2.9	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.56	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		0.30 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7650	500	50	mg/l	SM2540 C-11
Sulfate		4090	200	60	mg/l	EPA 300/SW846 9056A
FA21899-1F	**SS17-MW22**					
Manganese		4790	15	1.0	ug/l	SW846 6010C
FA21899-2	**SS17-MW21**					
Acetone		3370	2500	1000	ug/l	SW846 8260B
Benzene		61900	5000	1000	ug/l	SW846 8260B
2-Butanone (MEK)		920	500	120	ug/l	SW846 8260B
Ethylbenzene		5220	100	20	ug/l	SW846 8260B
Isopropylbenzene		96.0 J	100	20	ug/l	SW846 8260B
Methylene Chloride		394 J	500	200	ug/l	SW846 8260B
Naphthalene		397 J	500	100	ug/l	SW846 8260B
n-Propylbenzene		355	100	20	ug/l	SW846 8260B
Toluene		50500	5000	2000	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1950	200	20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		536	200	22	ug/l	SW846 8260B
m,p-Xylene		14000	200	31	ug/l	SW846 8260B
o-Xylene		6220	100	20	ug/l	SW846 8260B
Benzoic Acid [c]		274 J	480	95	ug/l	SW846 8270D
2,4-Dimethylphenol [c]		147	48	4.8	ug/l	SW846 8270D
3&4-Methylphenol [c]		928	48	9.5	ug/l	SW846 8270D
Phenol [c]		748	48	4.8	ug/l	SW846 8270D
1-Methylnaphthalene [c]		32.7 J	48	4.8	ug/l	SW846 8270D
2-Methylnaphthalene [c]		55.9	48	4.8	ug/l	SW846 8270D
Naphthalene [c]		298	48	4.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)		225	50	25	mg/l	SW846 8015C
TPH (C10-C22)		20.9	2.0	0.80	mg/l	SW846 8015C

Summary of Hits

Job Number: FA21899
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/04/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
TPH (> C22-C36)	1.57 J	2.0	0.80	mg/l	SW846 8015C
Iron	68.8 J	300	17	ug/l	SW846 6010C
Manganese	11.2 J	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	404	120	120	mg/l	SM5210 B-11
Chemical Oxygen Demand	1390	40	11	mg/l	SM5220 C-11
Hydrogen Sulfide	226	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.056 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	2.2	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	6.1	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3940	200	20	mg/l	SM2540 C-11
Sulfate	1800	50	15	mg/l	EPA 300/SW846 9056A
FA21899-2F SS17-MW21					
Manganese	11.9 J	15	1.0	ug/l	SW846 6010C
FA21899-3 SS17-MW05					
Benzene	163	25	5.0	ug/l	SW846 8260B
n-Butylbenzene	6.4 J	25	5.6	ug/l	SW846 8260B
Ethylbenzene	1700	25	5.0	ug/l	SW846 8260B
Isopropylbenzene	53.2	25	5.0	ug/l	SW846 8260B
Naphthalene	183	130	25	ug/l	SW846 8260B
n-Propylbenzene	146	25	5.0	ug/l	SW846 8260B
Toluene	342	25	10	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	113	50	5.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	16.8 J	50	5.6	ug/l	SW846 8260B
m,p-Xylene	473	50	7.9	ug/l	SW846 8260B
o-Xylene	80.3	25	5.0	ug/l	SW846 8260B
1-Methylnaphthalene [c]	68.7	48	4.8	ug/l	SW846 8270D
2-Methylnaphthalene [c]	91.9	48	4.8	ug/l	SW846 8270D
Naphthalene [c]	274	48	4.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)	6.76	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)	2.16	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)	0.267	0.20	0.080	mg/l	SW846 8015C
Iron	81.8 J	300	17	ug/l	SW846 6010C
Manganese	314	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	55.2	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand	99.4	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	22.7	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]	0.48	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.39	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.1	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3350	200	20	mg/l	SM2540 C-11
Sulfate	2060	50	15	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA21899
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/04/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA21899-3F	**SS17-MW05**					
Manganese		289	15	1.0	ug/l	SW846 6010C
FA21899-4	**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.
(c) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083047.D	1	02/13/15	RB	n/a	n/a	VN3668
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	3.8	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	SS17-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		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-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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]	X038441.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
Run #2 [b]	U049349.D	1	02/16/15	NJ	02/14/15	OP54970	SU2257

	Initial Volume	Final Volume
Run #1	1050 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	48	9.5	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene [c]	ND	4.8	0.63	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [c]	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	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-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene [c]	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene [c]	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	31%	37%	14-67%
4165-62-2	Phenol-d5	22%	28%	10-50%
118-79-6	2,4,6-Tribromophenol	76%	79%	33-118%
4165-60-0	Nitrobenzene-d5	68%	66%	42-108%
321-60-8	2-Fluorobiphenyl	63%	68%	40-106%
1718-51-0	Terphenyl-d14	67%	81%	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132210.D	1	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0716	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		70-131%
98-08-8	aaa-Trifluorotoluene	101%		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:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	WW3470.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.200	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.285	0.19	0.077	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 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:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6030	300	17	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [3]
Manganese	4820	15	1.0	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium [a]	58 U	200	58	ug/l	20	02/06/15	02/09/15	LM	SW846 6010C [2]	SW846 3010A [3]
Sodium	1340000	200000	10000	ug/l	20	02/06/15	02/09/15	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA12201
(2) Instrument QC Batch: MA12203
(3) Prep QC Batch: MP28530

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA21899-1	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		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	02/05/15 13:55	LE	SM5210 B-11
Chemical Oxygen Demand	24.8	20	5.3	mg/l	1	02/06/15 08:40	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	3.1	0.80	0.17	mg/l	1	02/06/15 16:38	LM	SM3500FE B-11
Iron, Ferrous [b]	2.9	0.50	0.16	mg/l	5	02/05/15 14:00	TF	SM3500FE B-11
Nitrogen, Ammonia	0.56	0.10	0.030	mg/l	1	02/10/15 11:27	JC	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	02/05/15 13:00	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.30 J	0.53	0.17	mg/l	1	02/10/15 15:21	JC	EPA 351.2
Solids, Total Dissolved	7650	500	50	mg/l	5	02/06/15 13:10	LE	SM2540 C-11
Sulfate	4090	200	60	mg/l	100	02/05/15 13:00	VK	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:	FA21899-1F	**Date Sampled:**	02/04/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4790	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083077.D	100	02/14/15	RB	n/a	n/a	VN3669
Run #2	N0083215.D	5000	02/18/15	RB	n/a	n/a	VN3677

	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	3370	2500	1000	ug/l	
107-02-8	Acrolein [a]	ND	2000	500	ug/l	
107-13-1	Acrylonitrile	ND	1000	200	ug/l	
71-43-2	Benzene	61900 [b]	5000	1000	ug/l	
108-86-1	Bromobenzene	ND	100	27	ug/l	
74-97-5	Bromochloromethane	ND	100	34	ug/l	
75-27-4	Bromodichloromethane	ND	100	22	ug/l	
75-25-2	Bromoform	ND	100	32	ug/l	
78-93-3	2-Butanone (MEK)	920	500	120	ug/l	
104-51-8	n-Butylbenzene	ND	100	22	ug/l	
135-98-8	sec-Butylbenzene	ND	100	20	ug/l	
98-06-6	tert-Butylbenzene	ND	100	20	ug/l	
75-15-0	Carbon Disulfide	ND	200	29	ug/l	
56-23-5	Carbon Tetrachloride	ND	100	28	ug/l	
108-90-7	Chlorobenzene	ND	100	20	ug/l	
75-00-3	Chloroethane	ND	200	50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	500	100	ug/l	
67-66-3	Chloroform	ND	100	30	ug/l	
95-49-8	o-Chlorotoluene	ND	100	20	ug/l	
106-43-4	p-Chlorotoluene	ND	100	20	ug/l	
124-48-1	Dibromochloromethane	ND	100	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	61	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	100	22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	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-MW21		
Lab Sample ID:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	100	25	ug/l	
142-28-9	1,3-Dichloropropane	ND	100	26	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	27	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	26	ug/l	
100-41-4	Ethylbenzene	5220	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	50	ug/l	
591-78-6	2-Hexanone	ND	1000	200	ug/l	
98-82-8	Isopropylbenzene	96.0	100	20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	100	20	ug/l	
74-83-9	Methyl Bromide	ND	200	50	ug/l	
74-87-3	Methyl Chloride	ND	200	50	ug/l	
74-95-3	Methylene Bromide	ND	200	25	ug/l	
75-09-2	Methylene Chloride	394	500	200	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	30	ug/l	
91-20-3	Naphthalene	397	500	100	ug/l	J
103-65-1	n-Propylbenzene	355	100	20	ug/l	
100-42-5	Styrene	ND	100	28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	22	ug/l	
127-18-4	Tetrachloroethylene	ND	100	33	ug/l	
108-88-3	Toluene	50500 [b]	5000	2000	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	31	ug/l	
79-01-6	Trichloroethylene	ND	100	22	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1950	200	20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	536	200	22	ug/l	
108-05-4	Vinyl Acetate	ND	1000	200	ug/l	
75-01-4	Vinyl Chloride	ND	100	25	ug/l	
	m,p-Xylene	14000	200	31	ug/l	
95-47-6	o-Xylene	6220	100	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-MW21		
Lab Sample ID:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	112%	110%	83-118%
17060-07-0	1,2-Dichloroethane-D4	116%	111%	79-125%
2037-26-5	Toluene-D8	92%	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	110%	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-MW21		
Lab Sample ID:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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]	X038513.D	10	02/17/15	FS	02/09/15	OP54882	SX1796
Run #2 [b]	U049350.D	20	02/16/15	NJ	02/14/15	OP54970	SU2257
Run #3 [a]	U049364.D	20	02/17/15	NJ	02/09/15	OP54882	SU2257

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1060 ml	1.0 ml
Run #3	1050 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	274	480	95	ug/l	J
59-50-7	4-Chloro-3-methyl Phenol	ND	48	4.8	ug/l	
95-57-8	2-Chlorophenol	ND	48	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	4.8	ug/l	
105-67-9	2,4-Dimethylphenol	147	48	4.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	48	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	95	20	ug/l	
	3&4-Methylphenol	928	48	9.5	ug/l	
88-75-5	2-Nitrophenol	ND	48	8.4	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	748	48	4.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	6.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	6.0	ug/l	
83-32-9	Acenaphthene	ND	48	4.8	ug/l	
208-96-8	Acenaphthylene	ND	48	4.8	ug/l	
62-53-3	Aniline	ND	48	9.5	ug/l	
120-12-7	Anthracene	ND	48	4.8	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	4.8	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	4.8	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene [c]	ND	48	6.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	6.5	ug/l	
100-51-6	Benzyl Alcohol	ND	48	8.1	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [c]	ND	48	6.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	48	9.5	ug/l	
86-74-8	Carbazole	ND	48	4.8	ug/l	
106-47-8	4-Chloroaniline	ND	48	4.8	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	48	6.0	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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.6	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	4.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	4.8	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	48	5.5	ug/l	
218-01-9	Chrysene	ND	48	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene [c]	ND	48	6.4	ug/l	
132-64-9	Dibenzofuran	ND	48	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	4.8	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	6.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	6.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	5.0	ug/l	
84-66-2	Diethyl Phthalate	ND	48	14	ug/l	
131-11-3	Dimethyl Phthalate	ND	48	9.5	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	48	9.5	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	48	9.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	5.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	6.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	5.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	9.5	ug/l	
206-44-0	Fluoranthene	ND	48	4.8	ug/l	
86-73-7	Fluorene	ND	48	4.8	ug/l	
118-74-1	Hexachlorobenzene [c]	ND	48	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	48	5.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	9.5	ug/l	
67-72-1	Hexachloroethane	ND	48	6.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [c]	ND	48	6.0	ug/l	
78-59-1	Isophorone	ND	48	4.9	ug/l	
90-12-0	1-Methylnaphthalene	32.7	48	4.8	ug/l	J
91-57-6	2-Methylnaphthalene	55.9	48	4.8	ug/l	
91-20-3	Naphthalene	298	48	4.8	ug/l	
88-74-4	2-Nitroaniline	ND	48	4.8	ug/l	
99-09-2	3-Nitroaniline	ND	48	5.1	ug/l	
100-01-6	4-Nitroaniline	ND	48	9.4	ug/l	
98-95-3	Nitrobenzene	ND	48	5.0	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	9.5	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	48	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	5.6	ug/l	
85-01-8	Phenanthrene	ND	48	4.9	ug/l	
129-00-0	Pyrene	ND	48	5.2	ug/l	
110-86-1	Pyridine	ND	95	19	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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
120-82-1	1,2,4-Trichlorobenzene	ND	48	4.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	37%	0% d	0% d	14-67%
4165-62-2	Phenol-d5	22%	0% d	0% d	10-50%
118-79-6	2,4,6-Tribromophenol	79%	0% d	0% d	33-118%
4165-60-0	Nitrobenzene-d5	76%	0% d	0% d	42-108%
321-60-8	2-Fluorobiphenyl	75%	0% d	0% d	40-106%
1718-51-0	Terphenyl-d14	57%	0% d	0% d	39-121%

(a) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132218.D	500	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	225	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	100%		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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	WW3473.D	10	02/19/15	SJL	02/11/15	OP54923	GWW143
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	20.9	2.0	0.80	mg/l	
	TPH (> C22-C36)	1.57	2.0	0.80	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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	68.8 J	300	17	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	11.2 J	15	1.0	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12201
(2) Prep QC Batch: MP28530

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:	FA21899-2	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	404	120	120	mg/l	60	02/05/15 13:55	LE	SM5210 B-11
Chemical Oxygen Demand	1390	40	11	mg/l	2	02/06/15 15:45	LE	SM5220 C-11
Hydrogen Sulfide	226	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	02/06/15 17:05	LM	SM3500FE B-11
Iron, Ferrous [b]	0.056 J	0.10	0.030	mg/l	1	02/05/15 14:00	TF	SM3500FE B-11
Nitrogen, Ammonia	2.2	0.10	0.030	mg/l	1	02/10/15 11:35	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	02/05/15 13:17	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	6.1	0.53	0.17	mg/l	1	02/10/15 15:22	JC	EPA 351.2
Solids, Total Dissolved	3940	200	20	mg/l	2	02/06/15 13:10	LE	SM2540 C-11
Sulfate	1800	50	15	mg/l	25	02/05/15 13:17	VK	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:	FA21899-2F	**Date Sampled:**	02/04/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	11.9 J	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083048.D	25	02/13/15	RB	n/a	n/a	VN3668
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	630	250	ug/l	
107-02-8	Acrolein	ND	500	130	ug/l	
107-13-1	Acrylonitrile	ND	250	50	ug/l	
71-43-2	Benzene	163	25	5.0	ug/l	
108-86-1	Bromobenzene	ND	25	6.7	ug/l	
74-97-5	Bromochloromethane	ND	25	8.4	ug/l	
75-27-4	Bromodichloromethane	ND	25	5.4	ug/l	
75-25-2	Bromoform	ND	25	8.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	130	29	ug/l	
104-51-8	n-Butylbenzene	6.4	25	5.6	ug/l	J
135-98-8	sec-Butylbenzene	ND	25	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	25	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	50	7.4	ug/l	
56-23-5	Carbon Tetrachloride	ND	25	7.0	ug/l	
108-90-7	Chlorobenzene	ND	25	5.0	ug/l	
75-00-3	Chloroethane	ND	50	13	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	130	25	ug/l	
67-66-3	Chloroform	ND	25	7.5	ug/l	
95-49-8	o-Chlorotoluene	ND	25	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	25	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	25	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	15	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	13	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	5.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	6.1	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.8	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	5.5	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	25	5.2	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-MW05		
Lab Sample ID:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	25	6.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	6.6	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	6.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	5.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	6.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	6.5	ug/l	
100-41-4	Ethylbenzene	1700	25	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	13	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
98-82-8	Isopropylbenzene	53.2	25	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide	ND	50	13	ug/l	
74-87-3	Methyl Chloride	ND	50	13	ug/l	
74-95-3	Methylene Bromide	ND	50	6.3	ug/l	
75-09-2	Methylene Chloride	ND	130	50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	130	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	7.5	ug/l	
91-20-3	Naphthalene	183	130	25	ug/l	
103-65-1	n-Propylbenzene	146	25	5.0	ug/l	
100-42-5	Styrene	ND	25	7.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	5.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	5.6	ug/l	
127-18-4	Tetrachloroethylene	ND	25	8.1	ug/l	
108-88-3	Toluene	342	25	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	7.9	ug/l	
79-01-6	Trichloroethylene	ND	25	5.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	13	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	17	ug/l	
95-63-6	1,2,4-Trimethylbenzene	113	50	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	16.8	50	5.6	ug/l	J
108-05-4	Vinyl Acetate	ND	250	50	ug/l	
75-01-4	Vinyl Chloride	ND	25	6.3	ug/l	
	m,p-Xylene	473	50	7.9	ug/l	
95-47-6	o-Xylene	80.3	25	5.0	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-MW05		
Lab Sample ID:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	104%		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-MW05		
Lab Sample ID:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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]	X038514.D	10	02/17/15	FS	02/09/15	OP54882	SX1796
Run #2 [b]	U049351.D	20	02/16/15	NJ	02/14/15	OP54970	SU2257

	Initial Volume	Final Volume
Run #1	1050 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	480	95	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	48	4.8	ug/l	
95-57-8	2-Chlorophenol	ND	48	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	48	4.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	48	4.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	240	48	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	95	20	ug/l	
95-48-7	2-Methylphenol	ND	48	4.8	ug/l	
	3&4-Methylphenol	ND	48	9.5	ug/l	
88-75-5	2-Nitrophenol	ND	48	8.4	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	ND	48	4.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	48	6.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	48	6.0	ug/l	
83-32-9	Acenaphthene	ND	48	4.8	ug/l	
208-96-8	Acenaphthylene	ND	48	4.8	ug/l	
62-53-3	Aniline	ND	48	9.5	ug/l	
120-12-7	Anthracene	ND	48	4.8	ug/l	
92-87-5	Benzidine	ND	240	48	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	4.8	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	4.8	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene [c]	ND	48	6.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	6.5	ug/l	
100-51-6	Benzyl Alcohol	ND	48	8.1	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [c]	ND	48	6.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	48	9.5	ug/l	
86-74-8	Carbazole	ND	48	4.8	ug/l	
106-47-8	4-Chloroaniline	ND	48	4.8	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	48	6.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	48	6.6	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:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	48	4.8	ug/l	
91-58-7	2-Chloronaphthalene	ND	48	4.8	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	48	5.5	ug/l	
218-01-9	Chrysene	ND	48	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene [c]	ND	48	6.4	ug/l	
132-64-9	Dibenzofuran	ND	48	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	48	4.8	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	48	6.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	48	6.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	48	5.0	ug/l	
84-66-2	Diethyl Phthalate	ND	48	14	ug/l	
131-11-3	Dimethyl Phthalate	ND	48	9.5	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	48	9.5	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	48	9.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	48	5.6	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	48	6.6	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	48	5.7	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	48	9.5	ug/l	
206-44-0	Fluoranthene	ND	48	4.8	ug/l	
86-73-7	Fluorene	ND	48	4.8	ug/l	
118-74-1	Hexachlorobenzene [c]	ND	48	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	48	5.7	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	9.5	ug/l	
67-72-1	Hexachloroethane	ND	48	6.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [c]	ND	48	6.0	ug/l	
78-59-1	Isophorone	ND	48	4.9	ug/l	
90-12-0	1-Methylnaphthalene	68.7	48	4.8	ug/l	
91-57-6	2-Methylnaphthalene	91.9	48	4.8	ug/l	
91-20-3	Naphthalene	274	48	4.8	ug/l	
88-74-4	2-Nitroaniline	ND	48	4.8	ug/l	
99-09-2	3-Nitroaniline	ND	48	5.1	ug/l	
100-01-6	4-Nitroaniline	ND	48	9.4	ug/l	
98-95-3	Nitrobenzene	ND	48	5.0	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	48	9.5	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	48	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	48	5.6	ug/l	
85-01-8	Phenanthrene	ND	48	4.9	ug/l	
129-00-0	Pyrene	ND	48	5.2	ug/l	
110-86-1	Pyridine	ND	95	19	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	48	4.8	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-MW05		
Lab Sample ID:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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%	0% d	14-67%
4165-62-2	Phenol-d5	22%	0% d	10-50%
118-79-6	2,4,6-Tribromophenol	72%	0% d	33-118%
4165-60-0	Nitrobenzene-d5	72%	0% d	42-108%
321-60-8	2-Fluorobiphenyl	79%	0% d	40-106%
1718-51-0	Terphenyl-d14	73%	0% d	39-121%

(a) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(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-MW05		
Lab Sample ID:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132219.D	20	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.76	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		70-131%
98-08-8	aaa-Trifluorotoluene	86%		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:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
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	WW3474.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.16	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.267	0.20	0.080	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 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:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	81.8 J	300	17	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	314	15	1.0	ug/l	1	02/06/15	02/06/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12201
(2) Prep QC Batch: MP28530

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:	FA21899-3	**Date Sampled:**	02/04/15
Matrix:	AQ - Ground Water	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	55.2	20	20	mg/l	10	02/05/15 13:55	LE	SM5210 B-11
Chemical Oxygen Demand	99.4	20	5.3	mg/l	1	02/06/15 08:40	LE	SM5220 C-11
Hydrogen Sulfide	22.7	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	02/06/15 17:10	LM	SM3500FE B-11
Iron, Ferrous [b]	0.48	0.10	0.030	mg/l	1	02/05/15 14:00	TF	SM3500FE B-11
Nitrogen, Ammonia	0.39	0.10	0.030	mg/l	1	02/10/15 11:36	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	02/05/15 13:34	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.1	0.53	0.17	mg/l	1	02/10/15 15:23	JC	EPA 351.2
Solids, Total Dissolved	3350	200	20	mg/l	2	02/06/15 13:10	LE	SM2540 C-11
Sulfate	2060	50	15	mg/l	25	02/05/15 19:13	VK	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:	FA21899-3F	**Date Sampled:**	02/04/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/05/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	289	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21899-4	**Date Sampled:**	02/04/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/15
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]	N0083046.D	1	02/13/15	RB	n/a	n/a	VN3668
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA21899-4	**Date Sampled:**	02/04/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	FA21899-4	**Date Sampled:**	02/04/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/05/15
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	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA 21899

Page: 1 of 1

Project No: 11.0019

COC Number(1): 02042015

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

	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	E8015DRO/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	SS17-MW22	4-Feb-15	745	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
	SS17-MW22 MS	SS17-MW22 MS	4-Feb-15	745	-	MS		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
	SS17-MW22 MSD	SS17-MW22 MSD	4-Feb-15	745	-	SD		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
2	SS17-MW21	SS17-MW21	4-Feb-15	1005	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								4
3	SS17-MW05	SS17-MW05	4-Feb-15	1140	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								5
4	TRIP BLANK	Field QC	4-Feb-15		-	TB		AQ	1	☒																	1
					-																						
					-																						
					-																						
					-																						

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]	2/4/2015		1. FX		09:30
2. FX			2. J. Corne (ACCUTEST)	2-5-15	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: ACCUTEST

Lab Recipient:

Airbill Number: 772827366204 772827366020

Airbill Number: 772827366400 / 772827366502

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

3.2 3.4 3.0 3.2 3.4

4.1

4

FA21899: Chain of Custody

Page 1 of 7

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 21899 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 2-5-15 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

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

AIRBILL NUMBERS: 7728 2736 6204

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
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4 3.6 3.2 3.4 3.6
- [ ] CORRECTED TEMPS: 3.2 3.4 3.0 3.2 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 LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE ~~HC421754~~ OTHER (specify) 405-230010

SUMMARY OF COMMENTS: (B013 DNO) ON 250 ml BOTTLE

TECHNICIAN SIGNATURE/DATE JC 2-5-15 REVIEWER SIGNATURE/DATE [signature] 02-05-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA21899: Chain of Custody

Page 2 of 7

From: (575) 921-1699
Tony Lucero
NATIONWIDE
BLG 1296 Vandegrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

JIS1010D1403av

Ship Date: 04FEB15
Act.Wgt: 80.0 LB
CAD: 10002083/NET3610

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
Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

BILL RECIPIENT

1 of 5

TRK# 7728 2736 6204
0201

MASTER

XH TIXA

THU - 05 FEB 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

SFJNA1604E049

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FA21899: Chain of Custody
Page 3 of 7

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15101D01403uv

Ship Date: 04FEB15
ActWgt: 80.0 LB
CAD: 100026931/INET3610

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

2 of 5

MPS# 7728 2736 6020
6263
Mstr# 7728 2736 6204
8261

THU - 05 FEB 10:30A
PRIORITY OVERNIGHT

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FL-US
MCO

XH TIXA

537JR/BSEE4B

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From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15421501140dw

Ship Date: 04FEB15
ActWgt: 60.0 LB
CAD: 100026531/INET3610

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

3 of 5

THU - 05 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 7728 2736 6400
6263

Mstr# 7728 2736 6204
0291

XH TIXA

32811
FL-US
MCO

SSFJNA1GUEE4B

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From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1200 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J151605014/Ibr

Ship Date: 04FEB15
Act/Wgt: 60.0 LB
CAD: 10082693/INET3610

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

4 of 5

THU - 05 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 7728 2736 6502
0263
Mstr# 7728 2736 6204 0201

XH TIXA

32811
FL-US
MCO

537JA/HBS/EHB

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From: (575) 921-1999
Tony Lucero
NATIONVIEW
BLG 1298 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15101201143av

Ship Date: 04FEB15
ActWgt: 0.0 LB
CAD: 100026534/INET3610

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 # 11-0019.73.010

5 of 5

THU - 05 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 7728 2736 6627
8265

Mstr# 7728 2736 6204
6291

XH TIXA

32811
FL-US
MCO

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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: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-MB	N0083045.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-MB	N0083045.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-MB	N0083045.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-MB	N0083070.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-MB	N0083070.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	117%	83-118%

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-MB	N0083070.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	117%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3677-MB	N0083205.D	1	02/18/15	RB	n/a	n/a	VN3677

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	89%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-BS	N0083043.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	130	104	50-147
107-02-8	Acrolein	125	99.6	80	31-154
107-13-1	Acrylonitrile	125	131	105	58-126
71-43-2	Benzene	25	24.4	98	81-122
108-86-1	Bromobenzene	25	22.3	89	80-121
74-97-5	Bromochloromethane	25	23.3	93	76-123
75-27-4	Bromodichloromethane	25	24.6	98	79-123
75-25-2	Bromoform	25	22.6	90	66-123
78-93-3	2-Butanone (MEK)	125	102	82	56-143
104-51-8	n-Butylbenzene	25	23.5	94	79-126
135-98-8	sec-Butylbenzene	25	25.5	102	83-133
98-06-6	tert-Butylbenzene	25	23.2	93	80-133
75-15-0	Carbon Disulfide	25	29.6	118	66-148
56-23-5	Carbon Tetrachloride	25	28.6	114	76-136
108-90-7	Chlorobenzene	25	25.2	101	82-124
75-00-3	Chloroethane	25	28.2	113	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	103	82	56-122
67-66-3	Chloroform	25	24.5	98	80-124
95-49-8	o-Chlorotoluene	25	25.1	100	81-127
106-43-4	p-Chlorotoluene	25	25.1	100	83-130
124-48-1	Dibromochloromethane	25	25.8	103	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.6	86	64-123
106-93-4	1,2-Dibromoethane	25	23.4	94	75-120
75-71-8	Dichlorodifluoromethane	25	19.1	76	42-167
95-50-1	1,2-Dichlorobenzene	25	24.1	96	82-124
541-73-1	1,3-Dichlorobenzene	25	24.5	98	84-125
106-46-7	1,4-Dichlorobenzene	25	22.3	89	78-120
75-34-3	1,1-Dichloroethane	25	23.8	95	81-122
107-06-2	1,2-Dichloroethane	25	22.5	90	75-125
75-35-4	1,1-Dichloroethylene	25	26.2	105	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.6	98	76-127
78-87-5	1,2-Dichloropropane	25	23.8	95	76-124
142-28-9	1,3-Dichloropropane	25	23.2	93	80-118
594-20-7	2,2-Dichloropropane	25	27.0	108	74-139
563-58-6	1,1-Dichloropropene	25	26.0	104	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-BS	N0083043.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.4	98	80-120
100-41-4	Ethylbenzene	25	23.6	94	81-121
87-68-3	Hexachlorobutadiene	25	23.6	94	75-142
591-78-6	2-Hexanone	125	110	88	61-129
98-82-8	Isopropylbenzene	25	24.9	100	83-132
99-87-6	p-Isopropyltoluene	25	24.5	98	79-130
74-83-9	Methyl Bromide	25	26.2	105	59-143
74-87-3	Methyl Chloride	25	21.2	85	50-159
74-95-3	Methylene Bromide	25	24.2	97	78-119
75-09-2	Methylene Chloride	25	26.2	105	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	106	85	66-122
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	72-117
91-20-3	Naphthalene	25	22.3	89	63-132
103-65-1	n-Propylbenzene	25	26.1	104	82-133
100-42-5	Styrene	25	23.1	92	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.1	104	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	72-120
127-18-4	Tetrachloroethylene	25	20.1	80	76-135
108-88-3	Toluene	25	23.2	93	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.1	92	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.1	92	73-129
71-55-6	1,1,1-Trichloroethane	25	24.4	98	75-130
79-00-5	1,1,2-Trichloroethane	25	23.9	96	76-119
79-01-6	Trichloroethylene	25	24.2	97	81-126
75-69-4	Trichlorofluoromethane	25	23.3	93	71-156
96-18-4	1,2,3-Trichloropropane	25	21.5	86	77-120
95-63-6	1,2,4-Trimethylbenzene	25	22.7	91	79-120
108-67-8	1,3,5-Trimethylbenzene	25	22.7	91	79-120
108-05-4	Vinyl Acetate	125	110	88	43-154
75-01-4	Vinyl Chloride	25	22.8	91	69-159
	m,p-Xylene	50	50.1	100	79-126
95-47-6	o-Xylene	25	24.7	99	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3668-BS	N0083043.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-BS	N0083068.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	172	138	50-147
107-02-8	Acrolein	125	341	273*	31-154
107-13-1	Acrylonitrile	125	141	113	58-126
108-86-1	Bromobenzene	25	22.8	91	80-121
74-97-5	Bromochloromethane	25	23.7	95	76-123
75-27-4	Bromodichloromethane	25	25.6	102	79-123
75-25-2	Bromoform	25	22.6	90	66-123
78-93-3	2-Butanone (MEK)	125	115	92	56-143
104-51-8	n-Butylbenzene	25	24.5	98	79-126
135-98-8	sec-Butylbenzene	25	25.9	104	83-133
98-06-6	tert-Butylbenzene	25	24.8	99	80-133
75-15-0	Carbon Disulfide	25	28.9	116	66-148
56-23-5	Carbon Tetrachloride	25	29.6	118	76-136
108-90-7	Chlorobenzene	25	24.6	98	82-124
75-00-3	Chloroethane	25	29.2	117	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	97.7	78	56-122
67-66-3	Chloroform	25	24.9	100	80-124
95-49-8	o-Chlorotoluene	25	25.3	101	81-127
106-43-4	p-Chlorotoluene	25	25.3	101	83-130
124-48-1	Dibromochloromethane	25	25.5	102	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.6	94	64-123
106-93-4	1,2-Dibromoethane	25	23.3	93	75-120
75-71-8	Dichlorodifluoromethane	25	20.1	80	42-167
95-50-1	1,2-Dichlorobenzene	25	24.7	99	82-124
541-73-1	1,3-Dichlorobenzene	25	25.5	102	84-125
106-46-7	1,4-Dichlorobenzene	25	22.5	90	78-120
75-34-3	1,1-Dichloroethane	25	24.1	96	81-122
107-06-2	1,2-Dichloroethane	25	24.2	97	75-125
75-35-4	1,1-Dichloroethylene	25	26.6	106	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.7	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.3	97	76-127
78-87-5	1,2-Dichloropropane	25	23.5	94	76-124
142-28-9	1,3-Dichloropropane	25	23.0	92	80-118
594-20-7	2,2-Dichloropropane	25	28.6	114	74-139
563-58-6	1,1-Dichloropropene	25	26.3	105	79-131
10061-01-5	cis-1,3-Dichloropropene	25	24.6	98	75-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-BS	N0083068.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	80-120
100-41-4	Ethylbenzene	25	24.0	96	81-121
87-68-3	Hexachlorobutadiene	25	24.9	100	75-142
591-78-6	2-Hexanone	125	126	101	61-129
98-82-8	Isopropylbenzene	25	25.4	102	83-132
99-87-6	p-Isopropyltoluene	25	24.5	98	79-130
74-83-9	Methyl Bromide	25	27.9	112	59-143
74-87-3	Methyl Chloride	25	22.3	89	50-159
74-95-3	Methylene Bromide	25	23.9	96	78-119
75-09-2	Methylene Chloride	25	27.0	108	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	113	90	66-122
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	72-117
91-20-3	Naphthalene	25	22.4	90	63-132
103-65-1	n-Propylbenzene	25	26.5	106	82-133
100-42-5	Styrene	25	23.2	93	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.7	103	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	23.2	93	72-120
127-18-4	Tetrachloroethylene	25	19.5	78	76-135
87-61-6	1,2,3-Trichlorobenzene	25	23.5	94	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.5	94	73-129
71-55-6	1,1,1-Trichloroethane	25	24.9	100	75-130
79-00-5	1,1,2-Trichloroethane	25	23.0	92	76-119
79-01-6	Trichloroethylene	25	24.3	97	81-126
75-69-4	Trichlorofluoromethane	25	26.4	106	71-156
96-18-4	1,2,3-Trichloropropane	25	22.9	92	77-120
95-63-6	1,2,4-Trimethylbenzene	25	22.9	92	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.2	93	79-120
108-05-4	Vinyl Acetate	125	114	91	43-154
75-01-4	Vinyl Chloride	25	24.4	98	69-159
	m,p-Xylene	50	49.5	99	79-126
95-47-6	o-Xylene	25	24.9	100	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3669-BS	N0083068.D	1	02/13/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3677-BS	N0083203.D	1	02/18/15	RB	n/a	n/a	VN3677

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.4	94	81-122
108-88-3	Toluene	25	22.2	89	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	N0083062.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1MSD	N0083063.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1	N0083047.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	FA21899-1 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	ND		125	143	114	125	132	106	8	50-147/21
107-02-8	Acrolein	ND		125	154	123	125	257	206*	50*	31-154/29
107-13-1	Acrylonitrile	ND		125	134	107	125	133	106	1	58-126/16
71-43-2	Benzene	ND		25	26.9	108	25	25.9	104	4	81-122/14
108-86-1	Bromobenzene	ND		25	23.6	94	25	23.7	95	0	80-121/14
74-97-5	Bromochloromethane	ND		25	26.8	107	25	25.1	100	7	76-123/14
75-27-4	Bromodichloromethane	ND		25	29.6	118	25	27.0	108	9	79-123/19
75-25-2	Bromoform	ND		25	21.2	85	25	20.9	84	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	128	102	125	124	99	3	56-143/18
104-51-8	n-Butylbenzene	ND		25	26.4	106	25	26.7	107	1	79-126/16
135-98-8	sec-Butylbenzene	ND		25	28.1	112	25	28.0	112	0	83-133/16
98-06-6	tert-Butylbenzene	ND		25	28.1	112	25	26.2	105	7	80-133/16
75-15-0	Carbon Disulfide	ND		25	25.7	103	25	24.7	99	4	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	35.3	141*	25	33.3	133	6	76-136/23
108-90-7	Chlorobenzene	ND		25	26.9	108	25	26.2	105	3	82-124/14
75-00-3	Chloroethane	ND		25	28.5	114	25	30.3	121	6	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	ND		25	29.9	120	25	27.4	110	9	80-124/15
95-49-8	o-Chlorotoluene	ND		25	27.0	108	25	27.0	108	0	81-127/15
106-43-4	p-Chlorotoluene	ND		25	27.0	108	25	27.0	108	0	83-130/15
124-48-1	Dibromochloromethane	ND		25	26.5	106	25	24.4	98	8	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	29.9	120	25	27.8	111	7	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	25.7	103	25	24.9	100	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	22.2	89	25	22.1	88	0	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	26.6	106	25	26.4	106	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	26.6	106	25	26.2	105	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	24.0	96	25	23.8	95	1	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	27.0	108	25	26.8	107	1	81-122/15
107-06-2	1,2-Dichloroethane	3.8		25	34.1	121	25	32.0	113	6	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	31.3	125	25	30.0	120	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.0	108	25	26.1	104	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.3	113	25	26.6	106	6	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	27.2	109	25	25.3	101	7	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	25.9	104	25	24.1	96	7	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	33.6	134	25	31.9	128	5	74-139/17
563-58-6	1,1-Dichloropropene	ND		25	29.8	119	25	28.2	113	6	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	N0083062.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1MSD	N0083063.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1	N0083047.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Compound	FA21899-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.5	98	25	23.5	94	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.5	106	25	25.0	100	6	80-120/22
100-41-4	Ethylbenzene	ND		25	26.2	105	25	25.0	100	5	81-121/14
87-68-3	Hexachlorobutadiene	ND		25	25.3	101	25	25.5	102	1	75-142/19
591-78-6	2-Hexanone	ND		125	179	143*	125	166	133*	8	61-129/18
98-82-8	Isopropylbenzene	ND		25	28.4	114	25	27.0	108	5	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	26.9	108	25	26.8	107	0	79-130/16
74-83-9	Methyl Bromide	ND		25	26.6	106	25	28.1	112	5	59-143/19
74-87-3	Methyl Chloride	ND		25	22.6	90	25	23.9	96	6	50-159/19
74-95-3	Methylene Bromide	ND		25	27.6	110	25	26.0	104	6	78-119/14
75-09-2	Methylene Chloride	ND		25	30.4	122	25	28.7	115	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	164	131*	125	151	121	8	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	25.3	101	25	24.8	99	2	72-117/14
91-20-3	Naphthalene	ND		25	25.7	103	25	25.9	104	1	63-132/25
103-65-1	n-Propylbenzene	ND		25	28.0	112	25	27.7	111	1	82-133/15
100-42-5	Styrene	ND		25	22.6	90	25	21.6	86	5	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	30.9	124*	25	28.5	114	8	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.8	107	25	25.7	103	4	72-120/14
127-18-4	Tetrachloroethylene	ND		25	22.0	88	25	20.0	80	10	76-135/16
108-88-3	Toluene	ND		25	24.9	100	25	23.8	95	5	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.1	100	25	24.9	100	1	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	25.1	100	25	24.9	100	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	29.3	117	25	28.6	114	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	25.9	104	25	25.3	101	2	76-119/14
79-01-6	Trichloroethylene	ND		25	28.7	115	25	26.1	104	9	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	30.0	120	25	29.7	119	1	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	25.7	103	25	25.6	102	0	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.5	98	25	24.2	97	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.9	100	25	24.1	96	3	79-120/19
108-05-4	Vinyl Acetate	ND		125	129	103	125	124	99	4	43-154/14
75-01-4	Vinyl Chloride	ND		25	23.3	93	25	25.5	102	9	69-159/18
	m,p-Xylene	ND		50	55.7	111	50	53.5	107	4	79-126/15
95-47-6	o-Xylene	ND		25	28.0	112	25	26.0	104	7	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	N0083062.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1MSD	N0083063.D	1	02/13/15	RB	n/a	n/a	VN3668
FA21899-1	N0083047.D	1	02/13/15	RB	n/a	n/a	VN3668

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-1, FA21899-3, FA21899-4

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
1868-53-7	Dibromofluoromethane	110%	106%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	119%	111%	111%	79-125%
2037-26-5	Toluene-D8	96%	95%	95%	85-112%
460-00-4	4-Bromofluorobenzene	95%	100%	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21915-10MS	N0083086.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10MSD	N0083087.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10	N0083080.D	1	02/14/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	FA21915-10 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	160	128	125	142	114	12	50-147/21
107-02-8	Acrolein	20	U	125	318	254*	125	342	274*	7	31-154/29
107-13-1	Acrylonitrile	10	U	125	166	133*	125	152	122	9	58-126/16
108-86-1	Bromobenzene	1.0	U	25	25.5	102	25	24.6	98	4	80-121/14
74-97-5	Bromochloromethane	1.0	U	25	29.1	116	25	26.9	108	8	76-123/14
75-27-4	Bromodichloromethane	1.0	U	25	31.4	126*	25	30.1	120	4	79-123/19
75-25-2	Bromoform	1.0	U	25	26.1	104	25	23.5	94	10	66-123/21
78-93-3	2-Butanone (MEK)	5.0	U	125	137	110	125	121	97	12	56-143/18
104-51-8	n-Butylbenzene	1.0	U	25	27.4	110	25	26.0	104	5	79-126/16
135-98-8	sec-Butylbenzene	1.0	U	25	29.5	118	25	28.2	113	5	83-133/16
98-06-6	tert-Butylbenzene	1.0	U	25	28.3	113	25	26.8	107	5	80-133/16
75-15-0	Carbon Disulfide	2.0	U	25	28.5	114	25	25.4	102	12	66-148/23
56-23-5	Carbon Tetrachloride	1.0	U	25	39.9	160*	25	35.1	140*	13	76-136/23
108-90-7	Chlorobenzene	1.0	U	25	28.2	113	25	26.8	107	5	82-124/14
75-00-3	Chloroethane	2.0	U	25	33.9	136	25	32.9	132	3	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	5.0	U	125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	1.0	U	25	32.3	129*	25	30.0	120	7	80-124/15
95-49-8	o-Chlorotoluene	1.0	U	25	29.0	116	25	28.0	112	4	81-127/15
106-43-4	p-Chlorotoluene	1.0	U	25	29.0	116	25	28.0	112	4	83-130/15
124-48-1	Dibromochloromethane	1.0	U	25	29.1	116	25	27.0	108	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	28.2	113	25	26.2	105	7	64-123/18
106-93-4	1,2-Dibromoethane	2.0	U	25	25.7	103	25	25.6	102	0	75-120/13
75-71-8	Dichlorodifluoromethane	2.0	U	25	25.2	101	25	23.7	95	6	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0	U	25	27.9	112	25	26.4	106	6	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0	U	25	28.5	114	25	27.1	108	5	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0	U	25	26.3	105	25	24.1	96	9	78-120/15
75-34-3	1,1-Dichloroethane	1.0	U	25	30.3	121	25	28.4	114	6	81-122/15
107-06-2	1,2-Dichloroethane	1.0	U	25	34.2	137*	25	30.2	121	12	75-125/14
75-35-4	1,1-Dichloroethylene	1.0	U	25	35.0	140*	25	32.4	130	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	29.2	117	25	26.9	108	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	30.6	122	25	29.2	117	5	76-127/17
78-87-5	1,2-Dichloropropane	1.0	U	25	28.2	113	25	26.1	104	8	76-124/14
142-28-9	1,3-Dichloropropane	1.0	U	25	26.4	106	25	24.9	100	6	80-118/13
594-20-7	2,2-Dichloropropane	1.0	U	25	32.3	129	25	28.5	114	13	74-139/17
563-58-6	1,1-Dichloropropene	1.0	U	25	32.0	128	25	28.9	116	10	79-131/16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	24.3	97	25	23.2	93	5	75-118/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21915-10MS	N0083086.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10MSD	N0083087.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10	N0083080.D	1	02/14/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	FA21915-10 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	25.0	100	25	24.1	96	4	80-120/22
100-41-4	Ethylbenzene	1.0	U	25	27.1	108	25	25.9	104	5	81-121/14
87-68-3	Hexachlorobutadiene	2.0	U	25	26.7	107	25	26.2	105	2	75-142/19
591-78-6	2-Hexanone	10	U	125	141	113	125	134	107	5	61-129/18
98-82-8	Isopropylbenzene	1.0	U	25	28.5	114	25	27.0	108	5	83-132/15
99-87-6	p-Isopropyltoluene	1.0	U	25	28.0	112	25	26.7	107	5	79-130/16
74-83-9	Methyl Bromide	2.0	U	25	30.1	120	25	28.7	115	5	59-143/19
74-87-3	Methyl Chloride	2.0	U	25	25.2	101	25	25.7	103	2	50-159/19
74-95-3	Methylene Bromide	2.0	U	25	30.6	122*	25	27.7	111	10	78-119/14
75-09-2	Methylene Chloride	5.0	U	25	34.3	137*	25	31.4	126	9	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	125	135	108	125	126	101	7	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	27.1	108	25	24.9	100	8	72-117/14
91-20-3	Naphthalene	5.0	U	25	24.6	98	25	23.5	94	5	63-132/25
103-65-1	n-Propylbenzene	1.0	U	25	29.2	117	25	27.9	112	5	82-133/15
100-42-5	Styrene	1.0	U	25	26.0	104	25	24.1	96	8	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	31.1	124*	25	29.5	118	5	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	26.4	106	25	25.4	102	4	72-120/14
127-18-4	Tetrachloroethylene	1.0	U	25	21.0	84	25	20.1	80	4	76-135/16
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	25.2	101	25	24.3	97	4	68-131/25
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	25.2	101	25	24.3	97	4	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0	U	25	34.3	137*	25	30.8	123	11	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0	U	25	27.6	110	25	25.5	102	8	76-119/14
79-01-6	Trichloroethylene	1.0	U	25	31.0	124	25	28.0	112	10	81-126/15
75-69-4	Trichlorofluoromethane	2.0	U	25	34.2	137	25	32.8	131	4	71-156/21
96-18-4	1,2,3-Trichloropropane	2.0	U	25	26.6	106	25	24.9	100	7	77-120/16
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	26.4	106	25	25.5	102	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	26.1	104	25	24.8	99	5	79-120/19
108-05-4	Vinyl Acetate	10	U	125	144	115	125	136	109	6	43-154/14
75-01-4	Vinyl Chloride	1.0	U	25	25.4	102	25	26.7	107	5	69-159/18
	m,p-Xylene	2.0	U	50	57.8	116	50	54.7	109	6	79-126/15
95-47-6	o-Xylene	1.0	U	25	28.4	114	25	27.2	109	4	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA21915-10	Limits
1868-53-7	Dibromofluoromethane	117%	113%	121%* [a]	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21915-10MS	N0083086.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10MSD	N0083087.D	1	02/14/15	RB	n/a	n/a	VN3669
FA21915-10	N0083080.D	1	02/14/15	RB	n/a	n/a	VN3669

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Surrogate Recoveries	MS	MSD	FA21915-10	Limits
17060-07-0	1,2-Dichloroethane-D4	125%	118%	125%	79-125%
2037-26-5	Toluene-D8	90%	89%	94%	85-112%
460-00-4	4-Bromofluorobenzene	96%	98%	104%	83-118%

(a) Outside control limits; however, sample is ND.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA22081-11MS	N0083222.D	1	02/19/15	RB	n/a	n/a	VN3677
FA22081-11MSD	N0083223.D	1	02/19/15	RB	n/a	n/a	VN3677
FA22081-11 [a]	N0083220.D	1	02/19/15	RB	n/a	n/a	VN3677

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21899-2

CAS No.	Compound	FA22081-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	25	27.2	109	25	25.0	100	8	81-122/14
108-88-3	Toluene	1.0	U	25	26.0	104	25	23.2	93	11	80-120/14

CAS No.	Surrogate Recoveries	MS	MSD	FA22081-11	Limits
1868-53-7	Dibromofluoromethane	108%	104%	114%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	107%	118%	79-125%
2037-26-5	Toluene-D8	95%	96%	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	103%	111%	83-118%

(a) Confirmation run.

* = 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: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MB	X038422.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MB	X038422.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MB	X038422.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	14-67%
4165-62-2	Phenol-d5	33%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	91%	39-121%

Method Blank Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54970-MB	U049341.D	1	02/16/15	NJ	02/14/15	OP54970	SU2257

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-2, FA21899-3

CAS No.	Compound	Result	RL	MDL	Units	Q

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	29%	10-50%
118-79-6	2,4,6-Tribromophenol	68%	33-118%
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	65%	40-106%
1718-51-0	Terphenyl-d14	84%	39-121%

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-BS	X038421.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	9.5	10	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	32.7	65	54-103
95-57-8	2-Chlorophenol	50	32.9	66	52-98
120-83-2	2,4-Dichlorophenol	50	32.9	66	53-103
105-67-9	2,4-Dimethylphenol	50	30.8	62	43-90
51-28-5	2,4-Dinitrophenol	100	82.4	82	44-112
534-52-1	4,6-Dinitro-o-cresol	100	81.8	82	66-121
95-48-7	2-Methylphenol	50	27.3	55	43-90
	3&4-Methylphenol	100	52.2	52	36-88
88-75-5	2-Nitrophenol	50	37.3	75	53-102
100-02-7	4-Nitrophenol	100	27.3	27	18-62
87-86-5	Pentachlorophenol	100	81.5	82	61-115
108-95-2	Phenol	50	13.2	26	19-56
95-95-4	2,4,5-Trichlorophenol	50	36.5	73	62-109
88-06-2	2,4,6-Trichlorophenol	50	37.9	76	59-107
83-32-9	Acenaphthene	50	36.9	74	61-107
208-96-8	Acenaphthylene	50	36.4	73	60-104
62-53-3	Aniline	50	30.1	60	47-100
120-12-7	Anthracene	50	36.9	74	65-108
92-87-5	Benzidine	50	30.4	61	25-99
56-55-3	Benzo(a)anthracene	50	37.1	74	66-111
50-32-8	Benzo(a)pyrene	50	37.8	76	62-107
205-99-2	Benzo(b)fluoranthene	50	40.8	82	65-114
191-24-2	Benzo(g,h,i)perylene	50	32.4	65*	66-116
207-08-9	Benzo(k)fluoranthene	50	40.5	81	65-114
100-51-6	Benzyl Alcohol	50	29.0	58	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	31.8	64*	65-109
85-68-7	Butyl Benzyl Phthalate	50	40.7	81	65-112
86-74-8	Carbazole	50	36.3	73	59-113
106-47-8	4-Chloroaniline	50	33.4	67	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	31.5	63	51-102
111-44-4	bis(2-Chloroethyl)ether	50	32.6	65	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	32.0	64	45-106
91-58-7	2-Chloronaphthalene	50	33.6	67	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	35.8	72	62-105
218-01-9	Chrysene	50	37.6	75	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-BS	X038421.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	29.8	60*	66-119
132-64-9	Dibenzofuran	50	35.3	71	61-106
95-50-1	1,2-Dichlorobenzene	50	31.3	63	48-97
541-73-1	1,3-Dichlorobenzene	50	31.4	63	45-95
106-46-7	1,4-Dichlorobenzene	50	31.9	64	45-98
91-94-1	3,3'-Dichlorobenzidine	50	35.3	71	46-117
84-66-2	Diethyl Phthalate	50	36.5	73	64-108
131-11-3	Dimethyl Phthalate	50	36.2	72	63-106
84-74-2	Di-n-butyl Phthalate	50	37.4	75	65-107
117-84-0	Di-n-octyl Phthalate	50	45.9	92	62-118
121-14-2	2,4-Dinitrotoluene	50	38.1	76	61-110
606-20-2	2,6-Dinitrotoluene	50	38.2	76	63-108
122-66-7	1,2-Diphenylhydrazine	50	34.7	69	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.5	85	61-117
206-44-0	Fluoranthene	50	37.1	74	63-106
86-73-7	Fluorene	50	37.6	75	62-108
118-74-1	Hexachlorobenzene	50	30.1	60*	63-108
87-68-3	Hexachlorobutadiene	50	33.5	67	42-102
77-47-4	Hexachlorocyclopentadiene	50	27.3	55	39-102
67-72-1	Hexachloroethane	50	32.4	65	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	27.2	54*	64-119
78-59-1	Isophorone	50	30.8	62	43-87
90-12-0	1-Methylnaphthalene	50	39.2	78	53-102
91-57-6	2-Methylnaphthalene	50	33.1	66	51-102
91-20-3	Naphthalene	50	32.2	64	47-100
88-74-4	2-Nitroaniline	50	37.5	75	54-128
99-09-2	3-Nitroaniline	50	39.2	78	56-106
100-01-6	4-Nitroaniline	50	36.5	73	55-120
98-95-3	Nitrobenzene	50	33.1	66	50-104
62-75-9	N-Nitrosodimethylamine	50	20.4	41	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	32.9	66	52-104
86-30-6	N-Nitrosodiphenylamine	50	37.4	75	64-108
85-01-8	Phenanthrene	50	36.8	74	66-110
129-00-0	Pyrene	50	37.7	75	64-113
110-86-1	Pyridine	50	18.7	37	23-74
120-82-1	1,2,4-Trichlorobenzene	50	29.9	60	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-BS	X038421.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	37%	14-67%
4165-62-2	Phenol-d5	26%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	67%	40-106%
1718-51-0	Terphenyl-d14	77%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54970-BS [a]	U049340.D	1	02/16/15	NJ	02/14/15	OP54970	SU2257

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-2, FA21899-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	14-67%
4165-62-2	Phenol-d5	34%	10-50%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	68%	42-108%
321-60-8	2-Fluorobiphenyl	77%	40-106%
1718-51-0	Terphenyl-d14	89%	39-121%

(a) Insufficient sample for MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MS	X038442.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
OP54882-MSD	X038443.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
FA21899-1 [a]	X038441.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	FA21899-1 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	73.9	38	192	75.0	39	1	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	64.2	67	96.2	64.0	67	0	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	63.2	66	96.2	61.8	64	2	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	62.1	65	96.2	61.2	64	1	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	64.2	67	96.2	61.9	64	4	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	108	56	192	118	61	9	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	106	55*	192	117	61*	10	66-121/23
95-48-7	2-Methylphenol	ND		96.2	59.0	61	96.2	57.8	60	2	43-90/28
	3&4-Methylphenol	ND		192	116	60	192	117	61	1	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	69.6	72	96.2	70.0	73	1	53-102/29
100-02-7	4-Nitrophenol	ND		192	76.4	40	192	75.9	39	1	18-62/33
87-86-5	Pentachlorophenol	ND		192	163	85	192	165	86	1	61-115/26
108-95-2	Phenol	ND		96.2	38.1	40	96.2	36.6	38	4	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	69.9	73	96.2	69.8	73	0	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	71.1	74	96.2	72.1	75	1	59-107/23
83-32-9	Acenaphthene	ND		96.2	68.1	71	96.2	67.8	71	0	61-107/22
208-96-8	Acenaphthylene	ND		96.2	66.4	69	96.2	66.0	69	1	60-104/22
62-53-3	Aniline	ND		96.2	57.5	60	96.2	54.1	56	6	47-100/30
120-12-7	Anthracene	ND		96.2	71.3	74	96.2	73.2	76	3	65-108/20
92-87-5	Benzidine	ND		96.2	24.3	25	96.2	15.4	16*	45*	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	69.7	72	96.2	71.4	74	2	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	71.0	74	96.2	71.4	74	1	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	74.1	77	96.2	75.2	78	1	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	64.8	67	96.2	64.6	67	0	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	71.7	75	96.2	72.2	75	1	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	61.0	63	96.2	60.4	63	1	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	61.7	64*	96.2	61.8	64*	0	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	79.4	83	96.2	80.3	84	1	65-112/24
86-74-8	Carbazole	ND		96.2	70.2	73	96.2	72.7	76	3	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	60.6	63	96.2	59.0	61	3	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	58.9	61	96.2	58.2	61	1	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	61.3	64	96.2	59.7	62	3	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	61.1	64	96.2	61.7	64	1	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	62.4	65	96.2	61.4	64	2	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	66.7	69	96.2	64.5	67	3	62-105/20
218-01-9	Chrysene	ND		96.2	71.1	74	96.2	71.1	74	0	66-111/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MS	X038442.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
OP54882-MSD	X038443.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
FA21899-1 [a]	X038441.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	FA21899-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	60.2	63*	96.2	60.7	63*	1	66-119/24
132-64-9	Dibenzofuran	ND		96.2	66.1	69	96.2	65.7	68	1	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	59.2	62	96.2	59.3	62	0	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	58.7	61	96.2	57.8	60	2	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	59.6	62	96.2	59.1	61	1	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	64.5	67	96.2	64.2	67	0	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	67.7	70	96.2	67.9	71	0	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	66.3	69	96.2	67.5	70	2	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	71.9	75	96.2	73.7	77	2	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	87.4	91	96.2	89.1	93	2	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	71.0	74	96.2	72.9	76	3	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	70.3	73	96.2	71.9	75	2	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	65.4	68	96.2	68.2	71	4	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	80.9	84	96.2	84.0	87	4	61-117/23
206-44-0	Fluoranthene	ND		96.2	72.5	75	96.2	73.1	76	1	63-106/21
86-73-7	Fluorene	ND		96.2	69.1	72	96.2	68.3	71	1	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	57.8	60*	96.2	57.8	60*	0	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	62.7	65	96.2	59.9	62	5	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	40.3	42	96.2	37.5	39	7	39-102/29
67-72-1	Hexachloroethane	ND		96.2	60.1	63	96.2	60.0	62	0	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	59.5	62*	96.2	58.8	61*	1	64-119/24
78-59-1	Isophorone	ND		96.2	56.7	59	96.2	57.1	59	1	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	72.9	76	96.2	72.4	75	1	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	62.0	64	96.2	60.2	63	3	51-102/26
91-20-3	Naphthalene	ND		96.2	60.9	63	96.2	60.1	63	1	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	69.3	72	96.2	72.2	75	4	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	71.5	74	96.2	73.4	76	3	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	71.0	74	96.2	69.7	72	2	55-120/24
98-95-3	Nitrobenzene	ND		96.2	61.1	64	96.2	60.7	63	1	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	47.0	49	96.2	46.7	49	1	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	60.0	62	96.2	60.0	62	0	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	72.6	76	96.2	74.2	77	2	64-108/23
85-01-8	Phenanthrene	ND		96.2	70.3	73	96.2	72.8	76	3	66-110/21
129-00-0	Pyrene	ND		96.2	72.9	76	96.2	73.5	76	1	64-113/23
110-86-1	Pyridine	ND		96.2	43.2	45	96.2	38.7	40	11	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	55.3	58	96.2	54.7	57	1	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54882-MS	X038442.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
OP54882-MSD	X038443.D	1	02/12/15	MV	02/09/15	OP54882	SX1793
FA21899-1 [a]	X038441.D	1	02/12/15	MV	02/09/15	OP54882	SX1793

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21899-1, FA21899-2, FA21899-3

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
367-12-4	2-Fluorophenol	48%	47%	31%	14-67%
4165-62-2	Phenol-d5	39%	38%	22%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	76%	76%	33-118%
4165-60-0	Nitrobenzene-d5	63%	64%	68%	42-108%
321-60-8	2-Fluorobiphenyl	64%	64%	63%	40-106%
1718-51-0	Terphenyl-d14	80%	80%	67%	39-121%

(a) Confirmed by re-extraction and reanalysis.

* = 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: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-MB	CD132204.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

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	84%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	69-143%

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-BS	CD132203.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.347	87	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	CD132211.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1MSD	CD132212.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1	CD132210.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	FA21899-1 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)	0.0716	J	0.4	0.428	89	0.4	0.408	84	5	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
460-00-4	4-Bromofluorobenzene	101%	84%	81%	70-131%
98-08-8	aaa-Trifluorotoluene	117%	101%	101%	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: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-MB	WW3469.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	50-131%

Blank Spike Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-BS	WW3468.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	4	3.11	78	56-123
	TPH (> C22-C36)	4	3.50	88	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	50-131%

* = Outside of Control Limits.

8.2.1

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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21899
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-MS	WW3471.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
OP54923-MSD	WW3472.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
FA21899-1	WW3470.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21899-1, FA21899-2, FA21899-3

CAS No.	Compound	FA21899-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.200		7.69	7.09	90	7.69	7.82	99	10	56-123/33
	TPH (> C22-C36)	0.285		7.69	7.81	98	7.69	8.59	108	10	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
84-15-1	o-Terphenyl	104%	108%	107%	50-131%

* = 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: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17	15.7	<300
Lead	5.0	1	1.1		
Magnesium	5000	35	35		
Manganese	15	.5	1	0.0	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9	0.40	<10
Silver	10	.7	.7		
Sodium	10000	500	500	120	<10000
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			02/06/15					02/06/15	
Metal	FA21899-1 Original	DUP	RPD	QC Limits	FA21899-1 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	6030	6000	0.5	0-20	6030	33100	26000	104.1	80-120
Lead	anr								
Magnesium	anr								
Manganese	4820	4850	0.6	0-20	4820	5380	500	112.0	80-120
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	0.0	0.0 (a)	NC	0-20	0.0	2210 (a)	2000	110.5	80-120
Silver	anr								
Sodium	870000	1370000	2.2	0-20	870000	1400000	25000	240.0(b)	80-120
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	FA21899-1 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	6030	31600	26000	98.3	4.6	20
Lead	anr					
Magnesium	anr					
Manganese	4820	5190	500	74.0 (a)	3.6	20
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	0.0	2210 (b)	2000	110.5	0.0	20
Silver	anr					
Sodium	870000	1380000	25000	160.0(a)	1.4	20
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Elevated reporting limit(s) due to matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

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	28100	26000	108.1	80-120
Lead	anr			
Magnesium	anr			
Manganese	541	500	108.2	80-120
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	2020	2000	101.0	80-120
Silver	anr			
Sodium	26800	25000	107.2	80-120
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	FA21899-1 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	6030	5700	5.4	0-10
Lead	anr			
Magnesium	anr			
Manganese	4820	4660	3.3	0-10
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	anr			
Sodium	870000	1380000	2.8	0-10
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28530
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/06/15

Metal	Sample ml	Final ml	FA21899-1 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	6025	5904.5	9024	0.2	150	3000	104.0	80-120
Lead										
Magnesium										
Manganese	9.8	10	4817	4720.66	4836	0.2	2.5	50	230.7*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium	9.8	10			123.5	0.2	5	100	123.5*(a	80-120
Silver										
Sodium	9.8	10	870200	1315160	1361000	0.2	500	10000	458.4*(a	80-120
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28530: FA21899-1, FA21899-2, FA21899-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					02/10/15		02/10/15		02/10/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	14	14						
Antimony	6.0	1	1						
Arsenic	10	1.3	1.3						
Barium	200	1	1						
Beryllium	4.0	.2	.2						
Cadmium	5.0	.2	.2						
Calcium	1000	50	50						
Chromium	10	1	1						
Cobalt	50	.2	.2						
Copper	25	1	1						
Iron	300	17	17						
Lead	5.0	1	1.1						
Magnesium	5000	35	35						
Manganese	15	.5	1	0.0	<15	0.0	<15	0.0	<15
Molybdenum	50	.3	.3						
Nickel	40	.4	.4						
Potassium	10000	200	200						
Selenium	10	2.4	2.9						
Silver	10	.7	.7						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.1	1.4						
Tin	50	.9	1						
Titanium	10	.5	1						
Vanadium	50	.5	.6						
Zinc	20	3	4.4						

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

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: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	02/10/15				02/10/15				
Metal	FA21899-1F Original	DUP	RPD	QC Limits	FA21899-1F 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	4790	4830	0.8	0-20	5090	5150	500	72.0 (a)	80-120
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

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
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	FA21899-1F 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	5090	5220	500	86.0	1.4	20
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium	anr					
Thallium	anr					
Tin	anr					
Titanium	anr					
Vanadium	anr					
Zinc	anr					

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

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: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

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	547	500	109.4	80-120
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium	anr			
Thallium	anr			
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	anr			

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	FA21899-1F 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	5090	5020	4.8	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium	anr			
Thallium	anr			
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	anr			

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	Sample ml	Final ml	FA21899-1F 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	5087	4697.14	4712	0.2	2.5	50	29.7*(a)	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28539: FA21899-1F, FA21899-2F, FA21899-3F

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
(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: FA21899
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	GP25463/GN65133	2.0	0.0	mg/l	200	185	93.3	85-115%
Chemical Oxygen Demand	GP25446/GN65095	20	0.0	mg/l	50.0mg/l	49.7	99.4	87-122%
Chemical Oxygen Demand	GP25447/GN65096	20	0.0	mg/l	750	736	98.2	87-122%
Iron, Ferrous	GN65079	0.10	0.0	mg/l	0.5	0.50	99.1	82-115%
Nitrogen, Ammonia	GP25462/GN65134	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP25441/GN65085	0.10	0.0	mg/l	2.5	2.36	94.4	90-110%
Nitrogen, Nitrite	GP25441/GN65085	0.10	0.0	mg/l	2.5	2.48	99.2	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	0.53	0.0	mg/l	2.63	2.77	105.5	90-110%
Solids, Total Dissolved	GN65109	100	0.0	mg/l				
Sulfate	GP25441/GN65085	2.0	0.0	mg/l	50	52.0	104.0	90-110%

Associated Samples:
Batch GN65079: FA21899-1, FA21899-2, FA21899-3
Batch GN65109: FA21899-1, FA21899-2, FA21899-3
Batch GP25441: FA21899-1, FA21899-2, FA21899-3
Batch GP25446: FA21899-1, FA21899-3
Batch GP25447: FA21899-2
Batch GP25461: FA21899-1, FA21899-2, FA21899-3
Batch GP25462: FA21899-1, FA21899-2, FA21899-3
Batch GP25463: FA21899-1, FA21899-2, FA21899-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21899
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP25463/GN65133	FA21899-1	mg/l	4.0 U	0.0	0.0	0-30%
Iron, Ferrous	GN65079	FA21899-1	mg/l	2.9	3.0	3.3	0-31%
Solids, Total Dissolved	GN65109	FA21899-3	mg/l	3350	3270	2.4	0-5%

Associated Samples:
Batch GN65079: FA21899-1, FA21899-2, FA21899-3
Batch GN65109: FA21899-1, FA21899-2, FA21899-3
Batch GP25463: FA21899-1, FA21899-2, FA21899-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21899
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	GP25446/GN65095	FA21899-1	mg/l	24.8	50.0	84.5	119.0	87-122%
Chemical Oxygen Demand	GP25447/GN65096	FA21899-2	mg/l	1390	750	2110	95.5	87-122%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	113.6N(a)	90-110%
Nitrogen, Nitrate	GP25441/GN65085	FA21900-3	mg/l	2.7	2.5	5.3	104.0	90-110%
Nitrogen, Nitrate	GP25441/GN65085	FA21900-3	mg/l	3.0	2.5	5.3	104.0	90-110%
Nitrogen, Nitrite	GP25441/GN65085	FA21900-3	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP25441/GN65085	FA21900-3	mg/l	0.10 U	2.5	2.4	96.0	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.4	41.9N(a)	90-110%
Sulfate	GP25441/GN65115	FA21900-3	mg/l	115	50	156	82.0N(a)	90-110%
Sulfate	GP25441/GN65115	FA21900-3	mg/l	113	50	156	82.0N(a)	90-110%

Associated Samples:
Batch GP25441: FA21899-1, FA21899-2, FA21899-3
Batch GP25446: FA21899-1, FA21899-3
Batch GP25447: FA21899-2
Batch GP25461: FA21899-1, FA21899-2, FA21899-3
Batch GP25462: FA21899-1, FA21899-2, FA21899-3
(*) 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: FA21899
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	GP25446/GN65095	FA21899-1	mg/l	24.8	50.0	82.0	3.0	26%
Chemical Oxygen Demand	GP25447/GN65096	FA21899-2	mg/l	1390	750	2150	1.9	26%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	0.0	20%
Nitrogen, Nitrate	GP25441/GN65085	FA21900-3	mg/l	2.7	2.5	5.2	1.9	20%
Nitrogen, Nitrate	GP25441/GN65085	FA21900-3	mg/l	3.0	2.5	5.2	1.9	20%
Nitrogen, Nitrite	GP25441/GN65085	FA21900-3	mg/l	0.050 U	2.5	2.4	0.0	20%
Nitrogen, Nitrite	GP25441/GN65085	FA21900-3	mg/l	0.10 U	2.5	2.4	0.0	20%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.5	6.9	20%
Sulfate	GP25441/GN65115	FA21900-3	mg/l	115	50	160	2.5	20%
Sulfate	GP25441/GN65115	FA21900-3	mg/l	113	50	160	2.5	20%

Associated Samples:
Batch GP25441: FA21899-1, FA21899-2, FA21899-3
Batch GP25446: FA21899-1, FA21899-3
Batch GP25447: FA21899-2
Batch GP25461: FA21899-1, FA21899-2, FA21899-3
Batch GP25462: FA21899-1, FA21899-2, FA21899-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA21939

Sampling Date: 02/05/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **92**

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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.

Norm Farmer
Technical Director

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Accutest LabLink@160286 12:10 08-Jun-2015

Sample Summary

Nation View

Job No: FA21939

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA21939-1	02/05/15	07:55	KF	02/06/15	AQ	Ground Water	SS17-MW07
FA21939-1F	02/05/15	07:55	KF	02/06/15	AQ	Groundwater Filtered	SS17-MW07
FA21939-2	02/05/15	07:55	KF	02/06/15	AQ	Ground Water	SS17-MW07A
FA21939-2F	02/05/15	07:55	KF	02/06/15	AQ	Groundwater Filtered	SS17-MW07A
FA21939-3	02/05/15	09:50	KF	02/06/15	AQ	Ground Water	SS17-MW08
FA21939-3F	02/05/15	09:50	KF	02/06/15	AQ	Groundwater Filtered	SS17-MW08
FA21939-4	02/05/15	00:00	KF	02/06/15	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA21939
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/05/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA21939-1	**SS17-MW07**					
Benzene		32.0	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene		0.67 J	1.0	0.22	ug/l	SW846 8260B
sec-Butylbenzene		1.2	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		74.4	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		3.0	1.0	0.20	ug/l	SW846 8260B
Naphthalene		7.6	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		11.5	1.0	0.20	ug/l	SW846 8260B
Toluene		140	5.0	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		49.0	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		15.0	2.0	0.22	ug/l	SW846 8260B
m,p-Xylene		176	2.0	0.31	ug/l	SW846 8260B
o-Xylene		73.8	1.0	0.20	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate		1.4 J	4.8	0.96	ug/l	SW846 8270D
1-Methylnaphthalene		0.57 J	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene		0.95 J	4.8	0.48	ug/l	SW846 8270D
Naphthalene		3.7 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.844	0.25	0.13	mg/l	SW846 8015C
TPH (C10-C22)		0.201	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.128 J	0.20	0.080	mg/l	SW846 8015C
Iron		339	300	17	ug/l	SW846 6010C
Manganese		372	15	1.0	ug/l	SW846 6010C
Iron, Ferric [a]		0.16 J	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.18	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.20	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate		2.8	1.0	0.50	mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		2930	200	20	mg/l	SM2540 C-11
Sulfate		1760	50	15	mg/l	EPA 300/SW846 9056A
FA21939-1F	**SS17-MW07**					
Manganese		367	15	1.0	ug/l	SW846 6010C
FA21939-2	**SS17-MW07A**					
Benzene		16.4	1.0	0.20	ug/l	SW846 8260B
n-Butylbenzene		0.43 J	1.0	0.22	ug/l	SW846 8260B
sec-Butylbenzene		0.81 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		49.4	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		2.0	1.0	0.20	ug/l	SW846 8260B
Naphthalene		5.0	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		7.0	1.0	0.20	ug/l	SW846 8260B
Toluene		96.8	5.0	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		31.4	2.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: FA21939
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/05/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene	9.4	2.0	0.22	ug/l	SW846 8260B
m,p-Xylene	121	2.0	0.31	ug/l	SW846 8260B
o-Xylene	47.8	1.0	0.20	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate	0.98 J	4.8	0.95	ug/l	SW846 8270D
1-Methylnaphthalene	0.68 J	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene	1.1 J	4.8	0.48	ug/l	SW846 8270D
Naphthalene	4.0 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)	0.912	0.10	0.050	mg/l	SW846 8015C
TPH (> C22-C36)	0.141 J	0.20	0.080	mg/l	SW846 8015C
Iron	49.8 J	300	17	ug/l	SW846 6010C
Manganese	391	15	1.0	ug/l	SW846 6010C
Iron, Ferrous [b]	0.15	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.097 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate	2.0	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.38 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2900	200	20	mg/l	SM2540 C-11
Sulfate	1960	50	15	mg/l	EPA 300/SW846 9056A
FA21939-2F SS17-MW07A					
Manganese	377	15	1.0	ug/l	SW846 6010C
FA21939-3 SS17-MW08					
Benzene	7.1	5.0	1.0	ug/l	SW846 8260B
n-Butylbenzene	10.4	5.0	1.1	ug/l	SW846 8260B
sec-Butylbenzene	11.7	5.0	1.0	ug/l	SW846 8260B
Ethylbenzene	3890	50	10	ug/l	SW846 8260B
Isopropylbenzene	105	5.0	1.0	ug/l	SW846 8260B
p-Isopropyltoluene	1.8 J	5.0	1.0	ug/l	SW846 8260B
Naphthalene	382	25	5.0	ug/l	SW846 8260B
n-Propylbenzene	266	5.0	1.0	ug/l	SW846 8260B
Toluene	66.1	5.0	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	727	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	174	10	1.1	ug/l	SW846 8260B
m,p-Xylene	3920	100	16	ug/l	SW846 8260B
o-Xylene	54.6	5.0	1.0	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate	8.4	4.8	0.95	ug/l	SW846 8270D
1-Methylnaphthalene	41.0	4.8	0.48	ug/l	SW846 8270D
2-Methylnaphthalene	20.6	4.8	0.48	ug/l	SW846 8270D
Naphthalene	210	48	4.8	ug/l	SW846 8270D
TPH-GRO (C6-C10)	21.3	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)	1.23	0.20	0.080	mg/l	SW846 8015C
Iron	74.8 J	300	17	ug/l	SW846 6010C
Manganese	59.6	15	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: FA21939
Account: Nation View
Project: Holloman AFB; SS17
Collected: 02/05/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
BOD, 5 Day		32.7	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand		76.9	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		12.4	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [b]		0.22	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.19	0.10	0.030	mg/l	EPA 350.1
Solids, Total Dissolved		2490	200	20	mg/l	SM2540 C-11
Sulfate		1590	50	15	mg/l	EPA 300/SW846 9056A
FA21939-3F	**SS17-MW08**					
Manganese		58.7	15	1.0	ug/l	SW846 6010C
FA21939-4	**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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083022.D	1	02/12/15	RB	n/a	n/a	VN3667
Run #2	N0083027.D	5	02/12/15	RB	n/a	n/a	VN3667

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	32.0	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	0.67	1.0	0.22	ug/l	J
135-98-8	sec-Butylbenzene	1.2	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	74.4	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	3.0	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	7.6	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	11.5	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	140 [b]	5.0	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	49.0	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	15.0	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	176	2.0	0.31	ug/l	
95-47-6	o-Xylene	73.8	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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	109%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	93%	79-125%
2037-26-5	Toluene-D8	94%	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	97%	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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	U049266.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol [a]	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol [a]	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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 [a]	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene [a]	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline [a]	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.4	4.8	0.96	ug/l	J
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene [a]	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	0.57	4.8	0.48	ug/l	J
91-57-6	2-Methylnaphthalene	0.95	4.8	0.48	ug/l	J
91-20-3	Naphthalene	3.7	4.8	0.48	ug/l	J
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline [a]	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	26%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

(a) Associated MS/MSD 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:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132274.D	2.5	02/12/15	JG	n/a	n/a	GCD5428
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.844	0.25	0.13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		70-131%
98-08-8	aaa-Trifluorotoluene	97%		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:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	WW3475.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.201	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.128	0.20	0.080	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-MW07		
Lab Sample ID:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	339	300	17	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	372	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21939-1	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		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	02/11/15 11:30	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	02/09/15 12:50	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.16 J	0.40	0.047	mg/l	1	02/10/15 15:21	LM	SM3500FE B-11
Iron, Ferrous [b]	0.18	0.10	0.030	mg/l	1	02/06/15 13:05	LE	SM3500FE B-11
Nitrogen, Ammonia	0.20	0.10	0.030	mg/l	1	02/10/15 11:37	JC	EPA 350.1
Nitrogen, Nitrate	2.8	1.0	0.50	mg/l	10	02/06/15 15:33	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.17 U	0.53	0.17	mg/l	1	02/10/15 15:31	JC	EPA 351.2
Solids, Total Dissolved	2930	200	20	mg/l	2	02/09/15 13:10	KC	SM2540 C-11
Sulfate	1760	50	15	mg/l	25	02/10/15 15:09	VK	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:	FA21939-1F	**Date Sampled:**	02/05/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	367	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083023.D	1	02/12/15	RB	n/a	n/a	VN3667
Run #2	N0083028.D	5	02/12/15	RB	n/a	n/a	VN3667

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	16.4	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	0.43	1.0	0.22	ug/l	J
135-98-8	sec-Butylbenzene	0.81	1.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	49.4	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	2.0	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	5.0	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	7.0	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	96.8 [b]	5.0	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	31.4	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	9.4	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	121	2.0	0.31	ug/l	
95-47-6	o-Xylene	47.8	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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	94%	79-125%
2037-26-5	Toluene-D8	97%	96%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	U049269.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	SS17-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.98	4.8	0.95	ug/l	J
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	0.68	4.8	0.48	ug/l	J
91-57-6	2-Methylnaphthalene	1.1	4.8	0.48	ug/l	J
91-20-3	Naphthalene	4.0	4.8	0.48	ug/l	J
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	27%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	77%		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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132216.D	1	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.912	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	110%		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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	WW3476.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.141	0.20	0.080	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	49.8 J	300	17	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	391	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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-MW07A		
Lab Sample ID:	FA21939-2	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		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	02/11/15 11:30	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	02/09/15 12:50	LE	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	02/10/15 15:25	LM	SM3500FE B-11
Iron, Ferrous [b]	0.15	0.10	0.030	mg/l	1	02/06/15 13:05	LE	SM3500FE B-11
Nitrogen, Ammonia	0.097 J	0.10	0.030	mg/l	1	02/10/15 11:38	JC	EPA 350.1
Nitrogen, Nitrate	2.0	1.0	0.50	mg/l	10	02/06/15 15:50	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.38 J	0.53	0.17	mg/l	1	02/10/15 15:32	JC	EPA 351.2
Solids, Total Dissolved	2900	200	20	mg/l	2	02/09/15 13:10	KC	SM2540 C-11
Sulfate	1960	50	15	mg/l	25	02/10/15 15:26	VK	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-MW07A		
Lab Sample ID:	FA21939-2F	**Date Sampled:**	02/05/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	377	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083025.D	5	02/12/15	RB	n/a	n/a	VN3667
Run #2	N0083029.D	50	02/12/15	RB	n/a	n/a	VN3667

	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	130	50	ug/l	
107-02-8	Acrolein [a]	ND	100	25	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	7.1	5.0	1.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/l	
75-25-2	Bromoform	ND	5.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	5.8	ug/l	
104-51-8	n-Butylbenzene	10.4	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	11.7	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/l	
75-15-0	Carbon Disulfide	ND	10	1.5	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW08		
Lab Sample ID:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	3890 [b]	50	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	105	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.8	5.0	1.0	ug/l	J
74-83-9	Methyl Bromide	ND	10	2.5	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
74-95-3	Methylene Bromide	ND	10	1.3	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/l	
91-20-3	Naphthalene	382	25	5.0	ug/l	
103-65-1	n-Propylbenzene	266	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	66.1	5.0	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	3.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	727 [b]	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	174	10	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	5.0	1.3	ug/l	
	m,p-Xylene	3920 [b]	100	16	ug/l	
95-47-6	o-Xylene	54.6	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-MW08		
Lab Sample ID:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	88%	96%	79-125%
2037-26-5	Toluene-D8	106%	94%	85-112%
460-00-4	4-Bromofluorobenzene	95%	99%	83-118%

(a) Associated BS recovery outside control limits.
(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:	SS17-MW08		
Lab Sample ID:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	U049270.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
Run #2	U049271.D	10	02/11/15	NJ	02/10/15	OP54900	SU2253

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	8.4	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	41.0	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	20.6	4.8	0.48	ug/l	
91-20-3	Naphthalene	210 [a]	48	4.8	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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-MW08		
Lab Sample ID:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	26%	30%	14-67%
4165-62-2	Phenol-d5	20%	19%	10-50%
118-79-6	2,4,6-Tribromophenol	71%	64%	33-118%
4165-60-0	Nitrobenzene-d5	62%	64%	42-108%
321-60-8	2-Fluorobiphenyl	64%	67%	40-106%
1718-51-0	Terphenyl-d14	78%	79%	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-MW08		
Lab Sample ID:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD132220.D	50	02/10/15	JG	n/a	n/a	GCD5426
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	21.3	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	107%		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:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
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	WW3482.D	1	02/23/15	SJL	02/11/15	OP54923	GWW144
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.23	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		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:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	74.8 J	300	17	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	59.6	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21939-3	**Date Sampled:**	02/05/15
Matrix:	AQ - Ground Water	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	32.7	20	20	mg/l	10	02/11/15 11:30	LE	SM5210 B-11
Chemical Oxygen Demand	76.9	20	5.3	mg/l	1	02/09/15 12:50	LE	SM5220 C-11
Hydrogen Sulfide	12.4	1.0	0.50	mg/l	1	02/06/15 09:40	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	02/10/15 15:29	LM	SM3500FE B-11
Iron, Ferrous [b]	0.22	0.10	0.030	mg/l	1	02/06/15 13:05	LE	SM3500FE B-11
Nitrogen, Ammonia	0.19	0.10	0.030	mg/l	1	02/10/15 11:39	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	02/06/15 16:07	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.17 U	0.53	0.17	mg/l	1	02/10/15 15:39	JC	EPA 351.2
Solids, Total Dissolved	2490	200	20	mg/l	2	02/09/15 13:10	KC	SM2540 C-11
Sulfate	1590	50	15	mg/l	25	02/10/15 15:43	VK	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:	FA21939-3F	**Date Sampled:**	02/05/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	02/06/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	58.7	15	1.0	ug/l	1	02/10/15	02/10/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12206
(2) Prep QC Batch: MP28539

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:	FA21939-4	**Date Sampled:**	02/05/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0083019.D	1	02/12/15	RB	n/a	n/a	VN3667
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	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA21939-4	**Date Sampled:**	02/05/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/06/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	FA21939-4	**Date Sampled:**	02/05/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/06/15
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	110%		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	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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

NATIONVIEW

FA 21939

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 02052015
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: 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
1	SS17-MW07	SS17-MW07	5-Feb-15	755	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
2	SS17-MW07a	SS17-MW07a	5-Feb-15	755	-	FD		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
3	SS17-MW08	SS17-MW08	5-Feb-15	950	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
4	TRIP BLANK	Field QC	5-Feb-15		-	TB		AQ	1	☒																	1
					-																						
					-																						
					-																						
					-																						
					-																						

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]	2/5/2015		1. FX		09:45
2. FX			2. J-Coone (ALPH)	2-6-15	
3.			3.		

Sample Delivery Details / Laboratory Receipt

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

Shipped No: 772840684996 772840684996
Airbill Number: 772840684996
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 (-o) 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 3.2 3.0

4.1
4

FA21939: Chain of Custody
Page 1 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 21939 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 2-6-15 09:45 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

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

AIRBILL NUMBERS: 7728 4068 4838

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
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2 3.4 3.2
- [ ] CORRECTED TEMPS: 3.0 3.2 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
- [ ] 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 LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: DRO on 250 ml BOTTLE

TECHNICIAN SIGNATURE/DATE JR 2.6.15 REVIEWER SIGNATURE/DATE RW 02-06-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA21939: Chain of Custody

Page 2 of 5

From: (575) 921-1899
Tony Lucero
NATIONAVIEW
BLG 1205 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J151015D1140/ac

Ship Date: 05FEB15
Act Wgt: 40.0 LB
CAD: 100026931/NET3610

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 3

TRK# 7728 4088 4996
0201

MASTER

XH TIXA

FRI - 06 FEB 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

8SYJ1K1B0/E6A0

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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.

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J45010501148kw

Ship Date: 05FEB15
ActWgt: 40.0 LB
CAD: 13002893/INET3810

Delivery Address Bar Code

Ref # 11-3018.73.010
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

2 of 3

MPS# 7728 4068 4838
6263
Mstr# 7728 4068 4896
9201

FRI - 06 FEB 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

XH TIXA

SSF/JUA1B0/E48

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From: (575) 921-1899
Terry Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J1510151140Jw

Ship Date: 05FEB15
ActWgt: 40.0 LB
CAD: 100026931/INET3610

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 # 11-0019.73.010

3 of 3

MPS# 7728 4068 4562
0263
Mstr# 7728 4068 4996
0201

FRI - 06 FEB 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

537JHA180/E46

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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.
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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: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-MB	N0083016.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-MB	N0083016.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-MB	N0083016.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-BS	N0083014.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	152	122	50-147
107-02-8	Acrolein	125	204	163*	31-154
107-13-1	Acrylonitrile	125	106	85	58-126
71-43-2	Benzene	25	26.1	104	81-122
108-86-1	Bromobenzene	25	24.8	99	80-121
74-97-5	Bromochloromethane	25	25.6	102	76-123
75-27-4	Bromodichloromethane	25	25.7	103	79-123
75-25-2	Bromoform	25	23.5	94	66-123
78-93-3	2-Butanone (MEK)	125	118	94	56-143
104-51-8	n-Butylbenzene	25	26.1	104	79-126
135-98-8	sec-Butylbenzene	25	27.0	108	83-133
98-06-6	tert-Butylbenzene	25	25.7	103	80-133
75-15-0	Carbon Disulfide	25	31.0	124	66-148
56-23-5	Carbon Tetrachloride	25	30.4	122	76-136
108-90-7	Chlorobenzene	25	26.1	104	82-124
75-00-3	Chloroethane	25	30.7	123	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	117	94	56-122
67-66-3	Chloroform	25	26.3	105	80-124
95-49-8	o-Chlorotoluene	25	26.9	108	81-127
106-43-4	p-Chlorotoluene	25	26.9	108	83-130
124-48-1	Dibromochloromethane	25	27.0	108	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.8	95	64-123
106-93-4	1,2-Dibromoethane	25	24.4	98	75-120
75-71-8	Dichlorodifluoromethane	25	21.2	85	42-167
95-50-1	1,2-Dichlorobenzene	25	26.3	105	82-124
541-73-1	1,3-Dichlorobenzene	25	26.2	105	84-125
106-46-7	1,4-Dichlorobenzene	25	24.1	96	78-120
75-34-3	1,1-Dichloroethane	25	25.9	104	81-122
107-06-2	1,2-Dichloroethane	25	24.0	96	75-125
75-35-4	1,1-Dichloroethylene	25	27.9	112	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.2	109	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.0	104	76-127
78-87-5	1,2-Dichloropropane	25	26.0	104	76-124
142-28-9	1,3-Dichloropropane	25	24.5	98	80-118
594-20-7	2,2-Dichloropropane	25	28.9	116	74-139
563-58-6	1,1-Dichloropropene	25	27.5	110	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-BS	N0083014.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	26.3	105	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	80-120
100-41-4	Ethylbenzene	25	24.8	99	81-121
87-68-3	Hexachlorobutadiene	25	25.2	101	75-142
591-78-6	2-Hexanone	125	123	98	61-129
98-82-8	Isopropylbenzene	25	26.1	104	83-132
99-87-6	p-Isopropyltoluene	25	26.3	105	79-130
74-83-9	Methyl Bromide	25	28.6	114	59-143
74-87-3	Methyl Chloride	25	23.9	96	50-159
74-95-3	Methylene Bromide	25	24.9	100	78-119
75-09-2	Methylene Chloride	25	28.0	112	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	113	90	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.6	94	72-117
91-20-3	Naphthalene	25	23.5	94	63-132
103-65-1	n-Propylbenzene	25	27.7	111	82-133
100-42-5	Styrene	25	24.7	99	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	27.0	108	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	72-120
127-18-4	Tetrachloroethylene	25	20.4	82	76-135
108-88-3	Toluene	25	24.0	96	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.1	96	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.1	96	73-129
71-55-6	1,1,1-Trichloroethane	25	25.6	102	75-130
79-00-5	1,1,2-Trichloroethane	25	24.8	99	76-119
79-01-6	Trichloroethylene	25	25.0	100	81-126
75-69-4	Trichlorofluoromethane	25	26.7	107	71-156
96-18-4	1,2,3-Trichloropropane	25	24.4	98	77-120
95-63-6	1,2,4-Trimethylbenzene	25	24.0	96	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	79-120
108-05-4	Vinyl Acetate	125	116	93	43-154
75-01-4	Vinyl Chloride	25	25.6	102	69-159
	m,p-Xylene	50	51.9	104	79-126
95-47-6	o-Xylene	25	25.8	103	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3667-BS	N0083014.D	1	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21939-3MS	N0083034.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3MSD	N0083035.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083025.D	5	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083029.D	50	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	FA21939-3 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	5740	92	6250	5580	89	3	50-147/21
107-02-8	Acrolein	ND		6250	11300	181*	6250	12300	197*	8	31-154/29
107-13-1	Acrylonitrile	ND		6250	6890	110	6250	6860	110	0	58-126/16
71-43-2	Benzene	7.1		1250	1300	103	1250	1270	101	2	81-122/14
108-86-1	Bromobenzene	ND		1250	1200	96	1250	1190	95	1	80-121/14
74-97-5	Bromochloromethane	ND		1250	1260	101	1250	1260	101	0	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1330	106	1250	1290	103	3	79-123/19
75-25-2	Bromoform	ND		1250	1150	92	1250	1170	94	2	66-123/21
78-93-3	2-Butanone (MEK)	ND		6250	5330	85	6250	5060	81	5	56-143/18
104-51-8	n-Butylbenzene	10.4		1250	1290	102	1250	1280	102	1	79-126/16
135-98-8	sec-Butylbenzene	11.7		1250	1380	109	1250	1340	106	3	83-133/16
98-06-6	tert-Butylbenzene	ND		1250	1280	102	1250	1250	100	2	80-133/16
75-15-0	Carbon Disulfide	ND		1250	1410	113	1250	1500	120	6	66-148/23
56-23-5	Carbon Tetrachloride	ND		1250	1470	118	1250	1420	114	3	76-136/23
108-90-7	Chlorobenzene	ND		1250	1320	106	1250	1280	102	3	82-124/14
75-00-3	Chloroethane	ND		1250	1660	133	1250	1570	126	6	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		6250	5300	85	6250	4920	79	7	56-122/23
67-66-3	Chloroform	ND		1250	1310	105	1250	1280	102	2	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1320	106	1250	1270	102	4	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1320	106	1250	1270	102	4	83-130/15
124-48-1	Dibromochloromethane	ND		1250	1320	106	1250	1320	106	0	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1240	99	1250	1240	99	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1250	100	1250	1250	100	0	75-120/13
75-71-8	Dichlorodifluoromethane	ND		1250	1030	82	1250	982	79	5	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		1250	1290	103	1250	1300	104	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		1250	1330	106	1250	1300	104	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		1250	1210	97	1250	1170	94	3	78-120/15
75-34-3	1,1-Dichloroethane	ND		1250	1270	102	1250	1230	98	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		1250	1200	96	1250	1190	95	1	75-125/14
75-35-4	1,1-Dichloroethylene	ND		1250	1400	112	1250	1350	108	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1280	102	1250	1250	100	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1310	105	1250	1220	98	7	76-127/17
78-87-5	1,2-Dichloropropane	ND		1250	1310	105	1250	1240	99	5	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1250	100	1250	1210	97	3	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1410	113	1250	1380	110	2	74-139/17
563-58-6	1,1-Dichloropropene	ND		1250	1380	110	1250	1330	106	4	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21939-3MS	N0083034.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3MSD	N0083035.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083025.D	5	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083029.D	50	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Compound	FA21939-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1210	97	1250	1250	100	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1220	98	1250	1250	100	2	80-120/22
100-41-4	Ethylbenzene	3890 [b]		1250	4770	70* [a]	1250	4560	54* [a]	5	81-121/14
87-68-3	Hexachlorobutadiene	ND		1250	1250	100	1250	1220	98	2	75-142/19
591-78-6	2-Hexanone	ND		6250	6370	102	6250	5990	96	6	61-129/18
98-82-8	Isopropylbenzene	105		1250	1440	107	1250	1370	101	5	83-132/15
99-87-6	p-Isopropyltoluene	1.8	J	1250	1310	105	1250	1290	103	2	79-130/16
74-83-9	Methyl Bromide	ND		1250	1430	114	1250	1430	114	0	59-143/19
74-87-3	Methyl Chloride	ND		1250	1130	90	1250	1220	98	8	50-159/19
74-95-3	Methylene Bromide	ND		1250	1230	98	1250	1270	102	3	78-119/14
75-09-2	Methylene Chloride	ND		1250	1350	108	1250	1340	107	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		6250	6220	100	6250	5850	94	6	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1140	91	1250	1160	93	2	72-117/14
91-20-3	Naphthalene	382		1250	1580	96	1250	1530	92	3	63-132/25
103-65-1	n-Propylbenzene	266		1250	1600	107	1250	1550	103	3	82-133/15
100-42-5	Styrene	ND		1250	1230	98	1250	1200	96	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1420	114	1250	1370	110	4	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1240	99	1250	1220	98	2	72-120/14
127-18-4	Tetrachloroethylene	ND		1250	1070	86	1250	993	79	7	76-135/16
108-88-3	Toluene	66.1		1250	1310	100	1250	1230	93	6	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1200	96	1250	1210	97	1	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1200	96	1250	1210	97	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		1250	1260	101	1250	1200	96	5	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		1250	1300	104	1250	1300	104	0	76-119/14
79-01-6	Trichloroethylene	ND		1250	1310	105	1250	1220	98	7	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1290	103	1250	1210	97	6	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		1250	1220	98	1250	1120	90	9	77-120/16
95-63-6	1,2,4-Trimethylbenzene	727 [b]		1250	1870	91	1250	1810	87	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	174		1250	1370	96	1250	1330	92	3	79-120/19
108-05-4	Vinyl Acetate	ND		6250	5540	89	6250	5640	90	2	43-154/14
75-01-4	Vinyl Chloride	ND		1250	1250	100	1250	1180	94	6	69-159/18
	m,p-Xylene	3920 [b]		2500	6090	87	2500	5810	76*	5	79-126/15
95-47-6	o-Xylene	54.6		1250	1410	108	1250	1320	101	7	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21939-3MS	N0083034.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3MSD	N0083035.D	50	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083025.D	5	02/12/15	RB	n/a	n/a	VN3667
FA21939-3	N0083029.D	50	02/12/15	RB	n/a	n/a	VN3667

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA21939-1, FA21939-2, FA21939-3, FA21939-4

CAS No.	Surrogate Recoveries	MS	MSD	FA21939-3	FA21939-3	Limits
1868-53-7	Dibromofluoromethane	105%	105%	100%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	95%	88%	96%	79-125%
2037-26-5	Toluene-D8	102%	96%	106%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	95%	99%	83-118%

(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/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: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MB	U049251.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MB	U049251.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MB	U049251.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	14-67%
4165-62-2	Phenol-d5	30%	10-50%
118-79-6	2,4,6-Tribromophenol	69%	33-118%
4165-60-0	Nitrobenzene-d5	63%	42-108%
321-60-8	2-Fluorobiphenyl	63%	40-106%
1718-51-0	Terphenyl-d14	85%	39-121%

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-BS	U049250.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	22.0	22	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	36.7	73	54-103
95-57-8	2-Chlorophenol	50	36.8	74	52-98
120-83-2	2,4-Dichlorophenol	50	35.9	72	53-103
105-67-9	2,4-Dimethylphenol	50	36.5	73	43-90
51-28-5	2,4-Dinitrophenol	100	80.4	80	44-112
534-52-1	4,6-Dinitro-o-cresol	100	82.2	82	66-121
95-48-7	2-Methylphenol	50	33.3	67	43-90
	3&4-Methylphenol	100	65.3	65	36-88
88-75-5	2-Nitrophenol	50	37.5	75	53-102
100-02-7	4-Nitrophenol	100	38.2	38	18-62
87-86-5	Pentachlorophenol	100	83.9	84	61-115
108-95-2	Phenol	50	20.4	41	19-56
95-95-4	2,4,5-Trichlorophenol	50	39.5	79	62-109
88-06-2	2,4,6-Trichlorophenol	50	40.8	82	59-107
83-32-9	Acenaphthene	50	40.2	80	61-107
208-96-8	Acenaphthylene	50	39.9	80	60-104
62-53-3	Aniline	50	35.4	71	47-100
120-12-7	Anthracene	50	40.3	81	65-108
92-87-5	Benzidine	50	30.7	61	25-99
56-55-3	Benzo(a)anthracene	50	39.7	79	66-111
50-32-8	Benzo(a)pyrene	50	38.7	77	62-107
205-99-2	Benzo(b)fluoranthene	50	38.9	78	65-114
191-24-2	Benzo(g,h,i)perylene	50	41.1	82	66-116
207-08-9	Benzo(k)fluoranthene	50	41.3	83	65-114
100-51-6	Benzyl Alcohol	50	36.1	72	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	34.4	69	65-109
85-68-7	Butyl Benzyl Phthalate	50	39.6	79	65-112
86-74-8	Carbazole	50	40.1	80	59-113
106-47-8	4-Chloroaniline	50	36.7	73	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	35.2	70	51-102
111-44-4	bis(2-Chloroethyl)ether	50	37.6	75	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	39.0	78	45-106
91-58-7	2-Chloronaphthalene	50	37.5	75	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	38.5	77	62-105
218-01-9	Chrysene	50	39.9	80	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-BS	U049250.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	40.8	82	66-119
132-64-9	Dibenzofuran	50	39.0	78	61-106
95-50-1	1,2-Dichlorobenzene	50	35.2	70	48-97
541-73-1	1,3-Dichlorobenzene	50	34.6	69	45-95
106-46-7	1,4-Dichlorobenzene	50	35.5	71	45-98
91-94-1	3,3'-Dichlorobenzidine	50	40.9	82	46-117
84-66-2	Diethyl Phthalate	50	39.1	78	64-108
131-11-3	Dimethyl Phthalate	50	39.2	78	63-106
84-74-2	Di-n-butyl Phthalate	50	39.2	78	65-107
117-84-0	Di-n-octyl Phthalate	50	40.6	81	62-118
121-14-2	2,4-Dinitrotoluene	50	39.6	79	61-110
606-20-2	2,6-Dinitrotoluene	50	38.4	77	63-108
122-66-7	1,2-Diphenylhydrazine	50	39.5	79	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	39.9	80	61-117
206-44-0	Fluoranthene	50	39.4	79	63-106
86-73-7	Fluorene	50	40.9	82	62-108
118-74-1	Hexachlorobenzene	50	33.1	66	63-108
87-68-3	Hexachlorobutadiene	50	35.4	71	42-102
77-47-4	Hexachlorocyclopentadiene	50	26.9	54	39-102
67-72-1	Hexachloroethane	50	35.1	70	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.4	75	64-119
78-59-1	Isophorone	50	34.3	69	43-87
90-12-0	1-Methylnaphthalene	50	42.7	85	53-102
91-57-6	2-Methylnaphthalene	50	35.4	71	51-102
91-20-3	Naphthalene	50	35.7	71	47-100
88-74-4	2-Nitroaniline	50	41.0	82	54-128
99-09-2	3-Nitroaniline	50	40.9	82	56-106
100-01-6	4-Nitroaniline	50	41.3	83	55-120
98-95-3	Nitrobenzene	50	35.8	72	50-104
62-75-9	N-Nitrosodimethylamine	50	27.2	54	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	39.3	79	52-104
86-30-6	N-Nitrosodiphenylamine	50	40.7	81	64-108
85-01-8	Phenanthrene	50	41.1	82	66-110
129-00-0	Pyrene	50	39.3	79	64-113
110-86-1	Pyridine	50	23.8	48	23-74
120-82-1	1,2,4-Trichlorobenzene	50	32.5	65	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-BS	U049250.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	14-67%
4165-62-2	Phenol-d5	37%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	75%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MS	U049267.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
OP54900-MSD	U049268.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
FA21939-1	U049266.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	FA21939-1 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	75.5	39	192	73.5	38	3	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	69.1	72	96.2	62.6	65	10	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	65.8	68	96.2	56.8	59	15	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	64.8	67	96.2	57.3	60	12	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	38.3	40*	96.2	35.0	36*	9	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	80.3	42*	192	80.9	42*	1	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	102	53*	192	101	53*	1	66-121/23
95-48-7	2-Methylphenol	ND		96.2	58.5	61	96.2	50.2	52	15	43-90/28
	3&4-Methylphenol	ND		192	119	62	192	105	55	13	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	66.3	69	96.2	58.0	60	13	53-102/29
100-02-7	4-Nitrophenol	ND		192	84.6	44	192	88.0	46	4	18-62/33
87-86-5	Pentachlorophenol	ND		192	140	73	192	134	70	4	61-115/26
108-95-2	Phenol	ND		96.2	38.9	40	96.2	36.0	37	8	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	73.7	77	96.2	68.1	71	8	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	74.9	78	96.2	69.0	72	8	59-107/23
83-32-9	Acenaphthene	ND		96.2	76.5	80	96.2	70.9	74	8	61-107/22
208-96-8	Acenaphthylene	ND		96.2	74.5	77	96.2	68.7	71	8	60-104/22
62-53-3	Aniline	ND		96.2	16.7	17*	96.2	19.2	20*	14	47-100/30
120-12-7	Anthracene	ND		96.2	68.3	71	96.2	65.5	68	4	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	76.6	80	96.2	72.7	76	5	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	61.4	64	96.2	58.6	61*	5	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	77.0	80	96.2	74.8	78	3	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	77.5	81	96.2	74.8	78	4	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	81.5	85	96.2	76.4	79	6	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	66.9	70	96.2	57.8	60	15	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	66.5	69	96.2	63.6	66	4	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	79.9	83	96.2	76.4	79	4	65-112/24
86-74-8	Carbazole	ND		96.2	78.1	81	96.2	73.8	77	6	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	44.4	46*	96.2	45.0	47*	1	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	64.7	67	96.2	56.0	58	14	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	66.7	69	96.2	56.5	59	17	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	68.6	71	96.2	58.3	61	16	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	71.1	74	96.2	63.6	66	11	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	74.2	77	96.2	70.6	73	5	62-105/20
218-01-9	Chrysene	ND		96.2	79.4	83	96.2	75.2	78	5	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	78.6	82	96.2	76.7	80	2	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MS	U049267.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
OP54900-MSD	U049268.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
FA21939-1	U049266.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	FA21939-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		96.2	73.8	77	96.2	69.0	72	7	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	62.2	65	96.2	54.5	57	13	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	62.4	65	96.2	53.9	56	15	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	64.1	67	96.2	55.1	57	15	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	ND	0*	96.2	ND	0*	nc	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	75.0	78	96.2	71.6	74	5	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	74.7	78	96.2	72.1	75	4	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	77.5	81	96.2	74.3	77	4	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	82.5	86	96.2	78.8	82	5	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	73.9	77	96.2	71.6	74	3	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	73.9	77	96.2	72.0	75	3	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	77.0	80	96.2	74.0	77	4	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	1.4	J	96.2	80.9	83	96.2	77.9	80	4	61-117/23
206-44-0	Fluoranthene	ND		96.2	76.5	80	96.2	72.9	76	5	63-106/21
86-73-7	Fluorene	ND		96.2	78.0	81	96.2	73.8	77	6	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	65.6	68	96.2	63.1	66	4	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	63.4	66	96.2	55.3	58	14	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	30.8	32*	96.2	27.3	28*	12	39-102/29
67-72-1	Hexachloroethane	ND		96.2	60.8	63	96.2	52.7	55	14	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	72.3	75	96.2	70.8	74	2	64-119/24
78-59-1	Isophorone	ND		96.2	62.7	65	96.2	56.3	59	11	43-87/25
90-12-0	1-Methylnaphthalene	0.57	J	96.2	79.2	82	96.2	69.6	72	13	53-102/27
91-57-6	2-Methylnaphthalene	0.95	J	96.2	66.5	68	96.2	58.6	60	13	51-102/26
91-20-3	Naphthalene	3.7	J	96.2	69.0	68	96.2	60.7	59	13	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	74.2	77	96.2	69.8	73	6	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	53.2	55*	96.2	52.6	55*	1	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	66.3	69	96.2	62.1	65	7	55-120/24
98-95-3	Nitrobenzene	ND		96.2	73.3	76	96.2	63.8	66	14	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	55.0	57	96.2	49.6	52	10	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	68.0	71	96.2	59.0	61	14	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	79.1	82	96.2	76.2	79	4	64-108/23
85-01-8	Phenanthrene	ND		96.2	80.1	83	96.2	76.6	80	4	66-110/21
129-00-0	Pyrene	ND		96.2	80.0	83	96.2	75.9	79	5	64-113/23
110-86-1	Pyridine	ND		96.2	45.4	47	96.2	36.9	38	21	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	59.2	62	96.2	51.1	53	15	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54900-MS	U049267.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
OP54900-MSD	U049268.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253
FA21939-1	U049266.D	1	02/11/15	NJ	02/10/15	OP54900	SU2253

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA21939-1, FA21939-2, FA21939-3

CAS No.	Surrogate Recoveries	MS	MSD	FA21939-1	Limits
367-12-4	2-Fluorophenol	49%	44%	26%	14-67%
4165-62-2	Phenol-d5	40%	37%	21%	10-50%
118-79-6	2,4,6-Tribromophenol	77%	75%	68%	33-118%
4165-60-0	Nitrobenzene-d5	65%	57%	57%	42-108%
321-60-8	2-Fluorobiphenyl	72%	64%	56%	40-106%
1718-51-0	Terphenyl-d14	85%	82%	75%	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: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-MB	CD132204.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-2, FA21939-3

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	84%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	69-143%

Method Blank Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5428-MB	CD132262.D	1	02/12/15	JG	n/a	n/a	GCD5428

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1

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	84%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	69-143%

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5426-BS	CD132203.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-2, FA21939-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.347	87	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	70-131%
98-08-8	aaa-Trifluorotoluene	108%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5428-BS	CD132261.D	1	02/12/15	JG	n/a	n/a	GCD5428

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1

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	111%	69-143%

7.2.2

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA21899-1MS	CD132211.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1MSD	CD132212.D	1	02/10/15	JG	n/a	n/a	GCD5426
FA21899-1	CD132210.D	1	02/10/15	JG	n/a	n/a	GCD5426

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-2, FA21939-3

CAS No.	Compound	FA21899-1 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)	0.0716	J	0.4	0.428	89	0.4	0.408	84	5	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
460-00-4	4-Bromofluorobenzene	101%	84%	81%	70-131%
98-08-8	aaa-Trifluorotoluene	117%	101%	101%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA22022-11MS	CD132267.D	1	02/12/15	JG	n/a	n/a	GCD5428
FA22022-11MSD	CD132268.D	1	02/12/15	JG	n/a	n/a	GCD5428
FA22022-11	CD132266.D	1	02/12/15	JG	n/a	n/a	GCD5428

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1

CAS No.	Compound	FA22022-11 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)	ND		0.4	0.358	90	0.4	0.346	87	3	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA22022-11	Limits
460-00-4	4-Bromofluorobenzene	96%	84%	90%	70-131%
98-08-8	aaa-Trifluorotoluene	109%	99%	100%	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: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-MB	WW3469.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	50-131%

Blank Spike Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-BS	WW3468.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	4	3.11	78	56-123
	TPH (> C22-C36)	4	3.50	88	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA21939
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54923-MS	WW3471.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
OP54923-MSD	WW3472.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143
FA21899-1	WW3470.D	1	02/19/15	SJL	02/11/15	OP54923	GWW143

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA21939-1, FA21939-2, FA21939-3

CAS No.	Compound	FA21899-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.200		7.69	7.09	90	7.69	7.82	99	10	56-123/33
	TPH (> C22-C36)	0.285		7.69	7.81	98	7.69	8.59	108	10	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA21899-1	Limits
84-15-1	o-Terphenyl	104%	108%	107%	50-131%

* = 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: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					02/10/15		02/10/15		02/10/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	14	14						
Antimony	6.0	1	1						
Arsenic	10	1.3	1.3						
Barium	200	1	1						
Beryllium	4.0	.2	.2						
Cadmium	5.0	.2	.2						
Calcium	1000	50	50						
Chromium	10	1	1						
Cobalt	50	.2	.2						
Copper	25	1	1						
Iron	300	17	17	10.9	<300	-2.2	<300	0.0	<300
Lead	5.0	1	1.1						
Magnesium	5000	35	35						
Manganese	15	.5	1	0.0	<15	0.0	<15	0.0	<15
Molybdenum	50	.3	.3						
Nickel	40	.4	.4						
Potassium	10000	200	200						
Selenium	10	2.4	2.9						
Silver	10	.7	.7						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.1	1.4						
Tin	50	.9	1						
Titanium	10	.5	1						
Vanadium	50	.5	.6						
Zinc	20	3	4.4						

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

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: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			02/10/15					02/10/15	
Metal	FA21899-1F Original	DUP	RPD	QC Limits	FA21899-1F 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	2950	2840	0.7	0-20	2820	28800	26000	99.9	80-120
Lead	anr								
Magnesium	anr								
Manganese	4790	4830	0.8	0-20	5090	5150	500	72.0 (a)	80-120
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium	anr								
Thallium	anr								
Tin	anr								
Titanium	anr								
Vanadium	anr								
Zinc	anr								

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

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
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	FA21899-1F 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	2820	28800	26000	99.9	0.0	20
Lead	anr					
Magnesium	anr					
Manganese	5090	5220	500	86.0	1.4	20
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium	anr					
Thallium	anr					
Tin	anr					
Titanium	anr					
Vanadium	anr					
Zinc	anr					

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

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: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

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	28100	26000	108.1	80-120
Lead	anr			
Magnesium	anr			
Manganese	547	500	109.4	80-120
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium	anr			
Thallium	anr			
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	anr			

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	FA21899-1F 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	2820	2880	2.1	0-10
Lead	anr			
Magnesium	anr			
Manganese	5090	5020	4.8	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium	anr			
Thallium	anr			
Tin	anr			
Titanium	anr			
Vanadium	anr			
Zinc	anr			

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28539
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/10/15

Metal	Sample ml	Final ml	FA21899-1F 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	2817	2760.66	5730	0.2	150	3000	99.0	80-120
Lead										
Magnesium										
Manganese	9.8	10	5087	4697.14	4712	0.2	2.5	50	29.7*(a)	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28539: FA21939-1, FA21939-2, FA21939-3, FA21939-1F, FA21939-2F, FA21939-3F

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
(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: FA21939
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	GP25471/GN65154	2.0	0.0	mg/l	198	177	89.4	85-115%
Chemical Oxygen Demand	GP25455/GN65118	20	0.0	mg/l	50.0	48.7	97.4	87-122%
Chloride	GP25452/GN65115	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Iron, Ferrous	GN65091	0.10	0.0	mg/l	.500	0.54	109.0	82-115%
Nitrogen, Ammonia	GP25462/GN65134	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Nitrate	GP25452/GN65115	0.10	0.0	mg/l	2.5	2.47	98.8	90-110%
Nitrogen, Nitrite	GP25452/GN65115	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	0.53	0.0	mg/l	2.63	2.77	105.5	90-110%
Solids, Total Dissolved	GN65130	100	0.0	mg/l				
Sulfate	GP25452/GN65115	2.0	0.0	mg/l	50	52.9	105.8	90-110%

Associated Samples:
Batch GN65091: FA21939-1, FA21939-2, FA21939-3
Batch GN65130: FA21939-1, FA21939-2, FA21939-3
Batch GP25452: FA21939-1, FA21939-2, FA21939-3
Batch GP25455: FA21939-1, FA21939-2, FA21939-3
Batch GP25461: FA21939-1, FA21939-2, FA21939-3
Batch GP25462: FA21939-1, FA21939-2, FA21939-3
Batch GP25471: FA21939-1, FA21939-2, FA21939-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21939
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP25471/GN65154	FA21939-1	mg/l	4.0 U	0.0	8.0	0-30%
Iron, Ferrous	GN65091	FA21939-1	mg/l	0.18	0.19	5.2	0-31%
Solids, Total Dissolved	GN65130	FA21939-1	mg/l	2930	2960	1.0	0-5%

Associated Samples:
Batch GN65091: FA21939-1, FA21939-2, FA21939-3
Batch GN65130: FA21939-1, FA21939-2, FA21939-3
Batch GP25471: FA21939-1, FA21939-2, FA21939-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA21939
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	GP25455/GN65118	FA21926-1	mg/l	25.6	50.0	76.9	103.0	87-122%
Chloride	GP25452/GN65115	FA21922-1	mg/l	19.4	50	70.9	103.0	90-110%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	113.6N(a)	90-110%
Nitrogen, Nitrate	GP25452/GN65115	FA21922-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP25452/GN65115	FA21922-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.4	41.9N(a)	90-110%
Sulfate	GP25452/GN65115	FA21922-1	mg/l	0.62	50	53.7	106.2	90-110%

Associated Samples:
Batch GP25452: FA21939-1, FA21939-2, FA21939-3
Batch GP25455: FA21939-1, FA21939-2, FA21939-3
Batch GP25461: FA21939-1, FA21939-2, FA21939-3
Batch GP25462: FA21939-1, FA21939-2, FA21939-3
(*) 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: FA21939
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	GP25455/GN65118	FA21926-1	mg/l	25.6	50.0	71.8	6.9	26%
Chloride	GP25452/GN65115	FA21922-1	mg/l	19.4	50	70.7	0.3	20%
Nitrogen, Ammonia	GP25462/GN65134	FA21899-1	mg/l	0.56	2.5	3.4	0.0	20%
Nitrogen, Nitrate	GP25452/GN65115	FA21922-1	mg/l	0.050 U	2.5	2.4	0.0	20%
Nitrogen, Nitrite	GP25452/GN65115	FA21922-1	mg/l	0.050 U	2.5	2.4	0.0	20%
Nitrogen, Total Kjeldahl	GP25461/GN65136	FA21899-1	mg/l	0.30	2.63	1.5	6.9	20%
Sulfate	GP25452/GN65115	FA21922-1	mg/l	0.62	50	54.4	1.3	20%

Associated Samples:
Batch GP25452: FA21939-1, FA21939-2, FA21939-3
Batch GP25455: FA21939-1, FA21939-2, FA21939-3
Batch GP25461: FA21939-1, FA21939-2, FA21939-3
Batch GP25462: FA21939-1, FA21939-2, FA21939-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/08/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA24506

Sampling Date: 05/18/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **73**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

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Accutest LabLink@160286 12:13 08-Jun-2015

Sample Summary

Nation View

Job No: FA24506

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24506-1	05/18/15	13:45	KFSH	05/20/15	AQ	Ground Water	SS17-MW22
FA24506-1D	05/18/15	13:45	KFSH	05/20/15	AQ	Water Dup/MSD	SS17-MW22
FA24506-1F	05/18/15	13:45	KFSH	05/20/15	AQ	Groundwater Filtered	SS17-MW22
FA24506-1FD	05/18/15	13:45	KFSH	05/20/15	AQ	Water Dup/MSD	SS17-MW22
FA24506-1FS	05/18/15	13:45	KFSH	05/20/15	AQ	Water Matrix Spike	SS17-MW22
FA24506-1S	05/18/15	13:45	KFSH	05/20/15	AQ	Water Matrix Spike	SS17-MW22
FA24506-2	05/18/15	00:00	KFSH	05/20/15	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA24506
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/18/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24506-1	**SS17-MW22**					
1,2-Dichloroethane		2.5	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.0741 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.274	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.246	0.20	0.080	mg/l	SW846 8015C
Iron		5190	300	17	ug/l	SW846 6010C
Manganese		4730	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		23.7	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		4.1	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		1.1	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.66	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		2.4	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		7290	500	50	mg/l	SM2540 C-11
Sulfate		4320	100	30	mg/l	EPA 300/SW846 9056A
FA24506-1F	**SS17-MW22**					
Manganese		4970	15	1.0	ug/l	SW846 6010C
FA24506-2	**TRIP BLANK**					
Methylene Chloride		3.0 J	5.0	2.0	ug/l	SW846 8260B

(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-MW22		
Lab Sample ID:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P32938.D	1	05/28/15	KM	n/a	n/a	VP1226
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	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	2.5	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW22		
Lab Sample ID:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
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	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated ICV 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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
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	X040137.D	1	05/29/15	MV	05/22/15	OP56183	SX1860
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW22		
Lab Sample ID:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
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	46%		14-67%
4165-62-2	Phenol-d5	38%		10-50%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	85%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133715.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0741	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-131%
98-08-8	aaa-Trifluorotoluene	86%		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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
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	WW3896.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.274	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.246	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5190	300	17	ug/l	1	05/21/15	05/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	4730	15	1.0	ug/l	1	05/21/15	05/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12418
(2) Prep QC Batch: MP28956

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:	FA24506-1	**Date Sampled:**	05/18/15
Matrix:	AQ - Ground Water	**Date Received:**	05/20/15
		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	1	05/25/15 12:30	DM	SM5210 B-11
Chemical Oxygen Demand	23.7	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	4.1	0.40	0.047	mg/l	1	05/21/15 12:43	LM	SM3500FE B-11
Iron, Ferrous [b]	1.1	0.10	0.030	mg/l	1	05/20/15 12:30	JC	SM3500FE B-11
Nitrogen, Ammonia	0.66	0.10	0.030	mg/l	1	05/30/15 17:44	JC	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	05/20/15 12:11	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.4	0.53	0.17	mg/l	1	05/27/15 17:26	DM	EPA 351.2
Solids, Total Dissolved	7290	500	50	mg/l	1	05/22/15 12:40	KC	SM2540 C-11
Sulfate	4320	100	30	mg/l	50	05/20/15 12:11	VK	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:	FA24506-1F	**Date Sampled:**	05/18/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/20/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4970	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24506-2	**Date Sampled:**	05/18/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/20/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P32937.D	1	05/28/15	KM	n/a	n/a	VP1226
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	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA24506-2	**Date Sampled:**	05/18/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/20/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	3.0	5.0	2.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	FA24506-2	**Date Sampled:**	05/18/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/20/15
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	96%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated ICV 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

FA 24506

Page: 1 of 1

Project No: 11.0019

COC Number(1): 05192015

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 / S Harrison

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	18-May-15	1345	-	N		WG	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								1
SS17-MW22 MS	SS17-MW22 MS	18-May-15	1345	-	MS		WG	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							1	2
SS17-MW22 MSD	SS17-MW22 MSD	18-May-15	1345	-	MSD		WG	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]								3
TRIP BLANK	Field QC	18-May-15		-	TB		AQ	1	[illegible]																2	1
				-																						
				-																						
				-																						
				-																						
				-																						

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. [illegible]	5192015		1. FX		09:00
2. FX			2. J. Compe (ALSK)	5-20-15	
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: 773639078914 / 8708 / 8912

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 3.0 3.0

FA24506: Chain of Custody

Page 1 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 24506 CLIENT: NATION VIEW PROJECT: SS-17

DATE/TIME RECEIVED: 5-20-15 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

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

AIRBILL NUMBERS: 7736 3907 8914

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
- [ ] 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 -0.2
- [ ] OBSERVED TEMPS: 2.8 3.2 3.2
- [ ] CORRECTED TEMPS: 2.6 3.0 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
- [ ] 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 LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE (A036122) NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: DRO AMBERS RECEIVED ON 250 ml BOTTLES

TECHNICIAN SIGNATURE/DATE LC 5-20-15 REVIEWER SIGNATURE/DATE RWilk 05-20-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA24506: Chain of Custody

Page 2 of 5

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J151215022303uv

Ship Date: 19MAY15
ActWgt: 40.0 LB
CAD: 100026931/INET3610

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 3

TRK# 0201 **7736 3907 8914**

MASTER

XH TIXA

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

537J3/0918/EE48

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From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J151215022303uv

Ship Date: 19MAY15
ActWgt: 40.0 LB
CAD: 100026931/NET3610

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

2 of 3

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

MPS# 7736 3907 8708
0263
Mstr# 7736 3907 8914 0201

XH TIXA

32811
FL-US
MCO

537JJ/C918/EE4B

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From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15121502230 3uv

Ship Date: 19MAY15
ActWgt: 40.0 LB
CAD: 100026931/INET3610

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

3 of 3

MPS# 7736 3907 8925
0263

Mstr# 7736 3907 8914 0201

WED - 20 MAY 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US
MCO

537J3/C918/EE4B

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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: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-MB	P32936.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-MB	P32936.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-MB	P32936.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-BS	P32934.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	200	160*	50-147
107-02-8	Acrolein	125	127	102	31-154
107-13-1	Acrylonitrile	125	119	95	58-126
71-43-2	Benzene	25	25.0	100	81-122
108-86-1	Bromobenzene	25	24.5	98	80-121
74-97-5	Bromochloromethane	25	25.5	102	76-123
75-27-4	Bromodichloromethane	25	25.4	102	79-123
75-25-2	Bromoform	25	24.4	98	66-123
78-93-3	2-Butanone (MEK)	125	135	108	56-143
104-51-8	n-Butylbenzene	25	24.8	99	79-126
135-98-8	sec-Butylbenzene	25	26.5	106	83-133
98-06-6	tert-Butylbenzene	25	25.5	102	80-133
75-15-0	Carbon Disulfide	25	27.4	110	66-148
56-23-5	Carbon Tetrachloride	25	28.5	114	76-136
108-90-7	Chlorobenzene	25	25.3	101	82-124
75-00-3	Chloroethane	25	21.2	85	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	101	81	56-122
67-66-3	Chloroform	25	25.4	102	80-124
95-49-8	o-Chlorotoluene	25	25.0	100	81-127
106-43-4	p-Chlorotoluene	25	24.6	98	83-130
124-48-1	Dibromochloromethane	25	24.8	99	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.8	87	64-123
106-93-4	1,2-Dibromoethane	25	23.5	94	75-120
75-71-8	Dichlorodifluoromethane	25	29.5	118	42-167
95-50-1	1,2-Dichlorobenzene	25	24.5	98	82-124
541-73-1	1,3-Dichlorobenzene	25	25.2	101	84-125
106-46-7	1,4-Dichlorobenzene	25	25.0	100	78-120
75-34-3	1,1-Dichloroethane	25	25.9	104	81-122
107-06-2	1,2-Dichloroethane	25	24.1	96	75-125
75-35-4	1,1-Dichloroethylene	25	28.4	114	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.1	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.3	113	76-127
78-87-5	1,2-Dichloropropane	25	24.8	99	76-124
142-28-9	1,3-Dichloropropane	25	22.7	91	80-118
594-20-7	2,2-Dichloropropane	25	28.7	115	74-139
563-58-6	1,1-Dichloropropene	25	27.7	111	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-BS	P32934.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	24.4	98	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.8	103	80-120
100-41-4	Ethylbenzene	25	25.6	102	81-121
87-68-3	Hexachlorobutadiene	25	27.2	109	75-142
591-78-6	2-Hexanone	125	125	100	61-129
98-82-8	Isopropylbenzene	25	26.2	105	83-132
99-87-6	p-Isopropyltoluene	25	25.6	102	79-130
74-83-9	Methyl Bromide	25	23.8	95	59-143
74-87-3	Methyl Chloride	25	22.9	92	50-159
74-95-3	Methylene Bromide	25	24.6	98	78-119
75-09-2	Methylene Chloride	25	25.1	100	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	104	83	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.3	101	72-117
91-20-3	Naphthalene	25	25.0	100	63-132
103-65-1	n-Propylbenzene	25	26.5	106	82-133
100-42-5	Styrene	25	23.7	95	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.0	100	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	22.0	88	72-120
127-18-4	Tetrachloroethylene	25	27.2	109	76-135
108-88-3	Toluene	25	25.1	100	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.0	96	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.7	99	73-129
71-55-6	1,1,1-Trichloroethane	25	26.5	106	75-130
79-00-5	1,1,2-Trichloroethane	25	23.4	94	76-119
79-01-6	Trichloroethylene	25	26.3	105	81-126
75-69-4	Trichlorofluoromethane	25	26.8	107	71-156
96-18-4	1,2,3-Trichloropropane	25	22.6	90	77-120
95-63-6	1,2,4-Trimethylbenzene	25	25.0	100	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.9	100	79-120
108-05-4	Vinyl Acetate	125	72.3	58	43-154
75-01-4	Vinyl Chloride	25	24.5	98	69-159
	m,p-Xylene	50	51.7	103	79-126
95-47-6	o-Xylene	25	25.1	100	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1226-BS	P32934.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	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	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24506-1MS	P32957.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1MSD	P32958.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1	P32938.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	FA24506-1 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	ND		125	128	102	125	129	103	1	50-147/21
107-02-8	Acrolein	ND		125	73.0	58	125	72.6	58	1	31-154/29
107-13-1	Acrylonitrile	ND		125	106	85	125	105	84	1	58-126/16
71-43-2	Benzene	ND		25	25.7	103	25	25.3	101	2	81-122/14
108-86-1	Bromobenzene	ND		25	25.4	102	25	25.0	100	2	80-121/14
74-97-5	Bromochloromethane	ND		25	26.7	107	25	27.5	110	3	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.5	102	25	23.4	94	9	79-123/19
75-25-2	Bromoform	ND		25	22.5	90	25	21.7	87	4	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	119	95	125	120	96	1	56-143/18
104-51-8	n-Butylbenzene	ND		25	23.5	94	25	22.7	91	3	79-126/16
135-98-8	sec-Butylbenzene	ND		25	26.2	105	25	25.3	101	3	83-133/16
98-06-6	tert-Butylbenzene	ND		25	25.8	103	25	24.7	99	4	80-133/16
75-15-0	Carbon Disulfide	ND		25	22.4	90	25	20.9	84	7	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	29.2	117	25	25.6	102	13	76-136/23
108-90-7	Chlorobenzene	ND		25	25.6	102	25	25.6	102	0	82-124/14
75-00-3	Chloroethane	ND		25	25.2	101	25	25.1	100	0	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	ND		25	26.2	105	25	26.1	104	0	80-124/15
95-49-8	o-Chlorotoluene	ND		25	24.8	99	25	24.1	96	3	81-127/15
106-43-4	p-Chlorotoluene	ND		25	24.3	97	25	24.0	96	1	83-130/15
124-48-1	Dibromochloromethane	ND		25	23.6	94	25	21.9	88	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.6	98	25	24.4	98	1	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	24.6	98	25	25.3	101	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	32.7	131	25	31.1	124	5	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	25.3	101	25	24.9	100	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	25.6	102	25	25.2	101	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	25.3	101	25	24.9	100	2	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	26.8	107	25	26.7	107	0	81-122/15
107-06-2	1,2-Dichloroethane	2.5		25	27.6	100	25	27.5	100	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	27.1	108	25	27.2	109	0	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.2	101	25	25.4	102	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.6	114	25	27.5	110	4	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	24.4	98	25	24.5	98	0	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	23.5	94	25	23.2	93	1	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	24.8	99	25	24.5	98	1	74-139/17
563-58-6	1,1-Dichloropropene	ND		25	27.5	110	25	26.6	106	3	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24506-1MS	P32957.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1MSD	P32958.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1	P32938.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Compound	FA24506-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.1	88	25	20.0	80	10	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.5	94	25	21.5	86	9	80-120/22
100-41-4	Ethylbenzene	ND		25	25.7	103	25	25.1	100	2	81-121/14
87-68-3	Hexachlorobutadiene	ND		25	25.7	103	25	25.9	104	1	75-142/19
591-78-6	2-Hexanone	ND		125	127	102	125	128	102	1	61-129/18
98-82-8	Isopropylbenzene	ND		25	26.4	106	25	25.6	102	3	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	25.2	101	25	24.5	98	3	79-130/16
74-83-9	Methyl Bromide	ND		25	27.8	111	25	28.0	112	1	59-143/19
74-87-3	Methyl Chloride	ND		25	26.6	106	25	25.9	104	3	50-159/19
74-95-3	Methylene Bromide	ND		25	25.0	100	25	25.3	101	1	78-119/14
75-09-2	Methylene Chloride	ND		25	25.3	101	25	25.1	100	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	122	98	125	125	100	2	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	26.9	108	25	27.6	110	3	72-117/14
91-20-3	Naphthalene	ND		25	28.2	113	25	29.4	118	4	63-132/25
103-65-1	n-Propylbenzene	ND		25	26.0	104	25	25.2	101	3	82-133/15
100-42-5	Styrene	ND		25	21.9	88	25	21.3	85	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	26.0	104	25	24.6	98	6	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.0	96	25	23.7	95	1	72-120/14
127-18-4	Tetrachloroethylene	ND		25	27.2	109	25	26.0	104	5	76-135/16
108-88-3	Toluene	ND		25	24.9	100	25	24.5	98	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.7	99	25	25.3	101	2	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.4	98	25	25.1	100	3	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	27.4	110	25	26.6	106	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	23.9	96	25	24.9	100	4	76-119/14
79-01-6	Trichloroethylene	ND		25	26.5	106	25	25.8	103	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.2	125	25	30.2	121	3	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	24.9	100	25	25.3	101	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.7	99	25	23.8	95	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.7	99	25	23.5	94	5	79-120/19
108-05-4	Vinyl Acetate	ND		125	63.4	51	125	63.7	51	0	43-154/14
75-01-4	Vinyl Chloride	ND		25	28.1	112	25	27.2	109	3	69-159/18
	m,p-Xylene	ND		50	51.7	103	50	50.4	101	3	79-126/15
95-47-6	o-Xylene	ND		25	25.2	101	25	24.6	98	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24506-1MS	P32957.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1MSD	P32958.D	1	05/28/15	KM	n/a	n/a	VP1226
FA24506-1	P32938.D	1	05/28/15	KM	n/a	n/a	VP1226

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24506-1, FA24506-2

CAS No.	Surrogate Recoveries	MS	MSD	FA24506-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	98%	79-125%
2037-26-5	Toluene-D8	97%	96%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	96%	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: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MB	L0682620.D	1	06/02/15	MV	05/22/15	OP56183	SL3666

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Result	RL	MDL	Units	Q

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	51%	14-67%
4165-62-2	Phenol-d5	38%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	77%	40-106%
1718-51-0	Terphenyl-d14	89%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MB	L0682489.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MB	L0682489.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MB	L0682489.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	14-67%
4165-62-2	Phenol-d5	35%	10-50%
118-79-6	2,4,6-Tribromophenol	92%	33-118%
4165-60-0	Nitrobenzene-d5	78%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	70%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-BS2	L0682619.D	1	06/02/15	MV	05/22/15	OP56183	SL3666

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-67%
4165-62-2	Phenol-d5	38%	10-50%
118-79-6	2,4,6-Tribromophenol	78%	33-118%
4165-60-0	Nitrobenzene-d5	76%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-BS	L0682488.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	21.3	21	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	32.0	64	54-103
95-57-8	2-Chlorophenol	50	31.5	63	52-98
120-83-2	2,4-Dichlorophenol	50	31.1	62	53-103
105-67-9	2,4-Dimethylphenol	50	24.7	49	43-90
51-28-5	2,4-Dinitrophenol	100	66.7	67	44-112
534-52-1	4,6-Dinitro-o-cresol	100	94.7	95	66-121
95-48-7	2-Methylphenol	50	29.1	58	43-90
	3&4-Methylphenol	100	55.9	56	36-88
88-75-5	2-Nitrophenol	50	31.4	63	53-102
100-02-7	4-Nitrophenol	100	35.9	36	18-62
87-86-5	Pentachlorophenol	100	78.7	79	61-115
108-95-2	Phenol	50	16.3	33	19-56
95-95-4	2,4,5-Trichlorophenol	50	39.1	78	62-109
88-06-2	2,4,6-Trichlorophenol	50	37.7	75	59-107
83-32-9	Acenaphthene	50	39.7	79	61-107
208-96-8	Acenaphthylene	50	36.5	73	60-104
62-53-3	Aniline	50	34.9	70	47-100
120-12-7	Anthracene	50	38.7	77	65-108
92-87-5	Benzidine	50	19.6	39	25-99
56-55-3	Benzo(a)anthracene	50	41.0	82	66-111
50-32-8	Benzo(a)pyrene	50	38.6	77	62-107
205-99-2	Benzo(b)fluoranthene	50	35.9	72	65-114
191-24-2	Benzo(g,h,i)perylene	50	39.2	78	66-116
207-08-9	Benzo(k)fluoranthene	50	40.3	81	65-114
100-51-6	Benzyl Alcohol	50	31.9	64	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	43.2	86	65-109
85-68-7	Butyl Benzyl Phthalate	50	38.5	77	65-112
86-74-8	Carbazole	50	39.4	79	59-113
106-47-8	4-Chloroaniline	50	29.9	60	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	24.4	49*	51-102
111-44-4	bis(2-Chloroethyl)ether	50	35.3	71	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	35.6	71	45-106
91-58-7	2-Chloronaphthalene	50	38.7	77	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	36.4	73	62-105
218-01-9	Chrysene	50	39.9	80	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-BS	L0682488.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	42.4	85	66-119
132-64-9	Dibenzofuran	50	37.0	74	61-106
95-50-1	1,2-Dichlorobenzene	50	30.7	61	48-97
541-73-1	1,3-Dichlorobenzene	50	31.4	63	45-95
106-46-7	1,4-Dichlorobenzene	50	31.0	62	45-98
91-94-1	3,3'-Dichlorobenzidine	50	34.9	70	46-117
84-66-2	Diethyl Phthalate	50	38.6	77	64-108
131-11-3	Dimethyl Phthalate	50	38.9	78	63-106
84-74-2	Di-n-butyl Phthalate	50	40.5	81	65-107
117-84-0	Di-n-octyl Phthalate	50	39.0	78	62-118
121-14-2	2,4-Dinitrotoluene	50	35.3	71	61-110
606-20-2	2,6-Dinitrotoluene	50	34.0	68	63-108
122-66-7	1,2-Diphenylhydrazine	50	40.6	81	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.0	76	61-117
206-44-0	Fluoranthene	50	38.8	78	63-106
86-73-7	Fluorene	50	38.9	78	62-108
118-74-1	Hexachlorobenzene	50	39.8	80	63-108
87-68-3	Hexachlorobutadiene	50	27.4	55	42-102
77-47-4	Hexachlorocyclopentadiene	50	26.7	53	39-102
67-72-1	Hexachloroethane	50	31.7	63	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.5	75	64-119
78-59-1	Isophorone	50	31.1	62	43-87
90-12-0	1-Methylnaphthalene	50	34.2	68	53-102
91-57-6	2-Methylnaphthalene	50	33.1	66	51-102
91-20-3	Naphthalene	50	33.2	66	47-100
88-74-4	2-Nitroaniline	50	35.2	70	54-128
99-09-2	3-Nitroaniline	50	36.1	72	56-106
100-01-6	4-Nitroaniline	50	35.6	71	55-120
98-95-3	Nitrobenzene	50	30.6	61	50-104
62-75-9	N-Nitrosodimethylamine	50	25.1	50	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	33.4	67	52-104
86-30-6	N-Nitrosodiphenylamine	50	40.7	81	64-108
85-01-8	Phenanthrene	50	40.7	81	66-110
129-00-0	Pyrene	50	35.6	71	64-113
110-86-1	Pyridine	50	24.4	49	23-74
120-82-1	1,2,4-Trichlorobenzene	50	29.2	58	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-BS	L0682488.D	1	05/22/15	MV	05/22/15	OP56183	SL3661

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	14-67%
4165-62-2	Phenol-d5	31%	10-50%
118-79-6	2,4,6-Tribromophenol	80%	33-118%
4165-60-0	Nitrobenzene-d5	59%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MS1	L0682528.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
OP56183-MSD1	L0682529.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
FA24506-1	X040137.D	1	05/29/15	MV	05/22/15	OP56183	SX1860

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	FA24506-1 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	86.2	45	192	78.2	41	10	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	63.0	66	96.2	58.8	61	7	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	63.2	66	96.2	53.9	56	16	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	64.7	67	96.2	55.3	58	16	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	60.1	63	96.2	55.1	57	9	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	122	63	192	113	59	8	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	159	83	192	141	73	12	66-121/23
95-48-7	2-Methylphenol	ND		96.2	60.3	63	96.2	50.7	53	17	43-90/28
	3&4-Methylphenol	ND		192	118	61	192	104	54	13	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	63.8	66	96.2	57.7	60	10	53-102/29
100-02-7	4-Nitrophenol	ND		192	112	58	192	101	53	10	18-62/33
87-86-5	Pentachlorophenol	ND		192	158	82	192	146	76	8	61-115/26
108-95-2	Phenol	ND		96.2	44.2	46	96.2	38.0	40	15	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	63.2	66	96.2	59.3	62	6	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	61.0	63	96.2	57.7	60	6	59-107/23
83-32-9	Acenaphthene	ND		96.2	72.0	75	96.2	64.0	67	12	61-107/22
208-96-8	Acenaphthylene	ND		96.2	64.5	67	96.2	58.3	61	10	60-104/22
62-53-3	Aniline	ND		96.2	54.7	57	96.2	50.0	52	9	47-100/30
120-12-7	Anthracene	ND		96.2	78.1	81	96.2	70.1	73	11	65-108/20
92-87-5	Benzidine	ND		96.2	ND	0*	96.2	ND	0*	nc	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	71.8	75	96.2	66.8	69	7	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	68.2	71	96.2	61.0	63	11	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	67.3	70	96.2	59.6	62*	12	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	69.1	72	96.2	69.4	72	0	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	67.6	70	96.2	64.1	67	5	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	64.1	67	96.2	53.4	56	18	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	70.5	73	96.2	60.9	63*	15	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	69.8	73	96.2	65.7	68	6	65-112/24
86-74-8	Carbazole	ND		96.2	76.2	79	96.2	67.2	70	13	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	48.8	51	96.2	46.0	48*	6	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	68.6	71	96.2	60.2	63	13	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	76.0	79	96.2	64.1	67	17	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	69.4	72	96.2	58.8	61	17	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	68.2	71	96.2	62.7	65	8	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	68.4	71	96.2	63.2	66	8	62-105/20
218-01-9	Chrysene	ND		96.2	72.8	76	96.2	69.4	72	5	66-111/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MS1	L0682528.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
OP56183-MSD1	L0682529.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
FA24506-1	X040137.D	1	05/29/15	MV	05/22/15	OP56183	SX1860

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Compound	FA24506-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	67.8	71	96.2	69.1	72	2	66-119/24
132-64-9	Dibenzofuran	ND		96.2	68.4	71	96.2	63.0	66	8	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	67.9	71	96.2	56.0	58	19	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	61.7	64	96.2	51.7	54	18	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	63.9	66	96.2	52.8	55	19	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	50.2	52	96.2	45.9	48	9	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	75.8	79	96.2	69.1	72	9	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	71.2	74	96.2	65.9	69	8	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	85.5	89	96.2	74.6	78	14	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	73.3	76	96.2	66.7	69	9	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	66.8	69	96.2	60.8	63	9	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	60.0	62*	96.2	55.2	57*	8	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	83.3	87	96.2	76.7	80	8	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	73.8	77	96.2	70.6	73	4	61-117/23
206-44-0	Fluoranthene	ND		96.2	78.6	82	96.2	67.5	70	15	63-106/21
86-73-7	Fluorene	ND		96.2	77.6	81	96.2	71.3	74	8	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	65.8	68	96.2	62.0	64	6	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	59.2	62	96.2	50.5	53	16	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	50.6	53	96.2	45.1	47	11	39-102/29
67-72-1	Hexachloroethane	ND		96.2	70.7	74	96.2	53.8	56	27	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	65.4	68	96.2	63.1	66	4	64-119/24
78-59-1	Isophorone	ND		96.2	70.0	73	96.2	61.7	64	13	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	64.5	67	96.2	60.2	63	7	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	63.8	66	96.2	56.1	58	13	51-102/26
91-20-3	Naphthalene	ND		96.2	66.6	69	96.2	58.0	60	14	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	69.8	73	96.2	63.1	66	10	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	52.9	55*	96.2	50.6	53*	4	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	65.5	68	96.2	61.1	64	7	55-120/24
98-95-3	Nitrobenzene	ND		96.2	72.0	75	96.2	62.6	65	14	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	59.5	62	96.2	50.0	52	17	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	71.3	74	96.2	59.9	62	17	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	72.4	75	96.2	63.6	66	13	64-108/23
85-01-8	Phenanthrene	ND		96.2	78.2	81	96.2	70.5	73	10	66-110/21
129-00-0	Pyrene	ND		96.2	68.3	71	96.2	63.6	66	7	64-113/23
110-86-1	Pyridine	ND		96.2	35.8	37	96.2	32.0	33	11	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	58.7	61	96.2	51.1	53	14	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56183-MS1	L0682528.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
OP56183-MSD1	L0682529.D	1	05/27/15	MV	05/22/15	OP56183	SL3663
FA24506-1	X040137.D	1	05/29/15	MV	05/22/15	OP56183	SX1860

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24506-1

CAS No.	Surrogate Recoveries	MS	MSD	FA24506-1	Limits
367-12-4	2-Fluorophenol	52%	43%	46%	14-67%
4165-62-2	Phenol-d5	46%	42%	38%	10-50%
118-79-6	2,4,6-Tribromophenol	72%	65%	91%	33-118%
4165-60-0	Nitrobenzene-d5	70%	63%	80%	42-108%
321-60-8	2-Fluorobiphenyl	64%	60%	85%	40-106%
1718-51-0	Terphenyl-d14	65%	62%	90%	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: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5504-MB	CD133714.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

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	81%	70-131%
98-08-8	aaa-Trifluorotoluene	83%	69-143%

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5504-BS	CD133713.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.351	88	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	87%	70-131%
98-08-8	aaa-Trifluorotoluene	92%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24506-1MS	CD133721.D	1	05/22/15	EG	n/a	n/a	GCD5504
FA24506-1MSD	CD133722.D	1	05/22/15	EG	n/a	n/a	GCD5504
FA24506-1	CD133715.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

CAS No.	Compound	FA24506-1 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)	0.0741	J	0.4	0.436	90	0.4	0.425	88	3	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA24506-1	Limits
460-00-4	4-Bromofluorobenzene	94%	91%	90%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	95%	86%	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: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56171-MB	WW3895.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

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

8.1.1

8

Blank Spike Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56171-BS	WW3894.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	4	2.98	75	56-123
	TPH (> C22-C36)	4	3.01	75	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	92%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24506
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56171-MS	WW3897.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174
OP56171-MSD	WW3898.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174
FA24506-1	WW3896.D	1	05/29/15	SJL	05/21/15	OP56171	GWW174

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24506-1

CAS No.	Compound	FA24506-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.274		8.33	6.82	79	8.33	6.57	76	4	56-123/33
	TPH (> C22-C36)	0.246		8.33	6.67	77	8.33	6.60	76	1	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA24506-1	Limits
84-15-1	o-Terphenyl	97%	94%	90%	50-131%

* = 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: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17	-1.7	<300
Lead	5.0	1	1.1		
Magnesium	5000	35	35		
Manganese	15	.5	1	-0.10	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP28956: FA24506-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	05/21/15						05/21/15		
Metal	FA24506-1 Original	DUP	RPD	QC Limits	FA24506-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper									
Iron	5190	5190	0.0	0-20	5190	31700	26000	102.0	80-120
Lead	anr								
Magnesium	anr								
Manganese	4730	4710	0.4	0-20	4730	5290	500	112.0	80-120
Molybdenum									
Nickel									
Potassium	anr								
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28956: FA24506-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/15

Metal	FA24506-1 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						
Copper						
Iron	5190	31500	26000	101.2	0.6	20
Lead	anr					
Magnesium	anr					
Manganese	4730	5250	500	104.0	0.8	20
Molybdenum						
Nickel						
Potassium	anr					
Selenium	anr					
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28956: FA24506-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/15

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				
Copper				
Iron	27800	26000	106.9	80-120
Lead	anr			
Magnesium	anr			
Manganese	539	500	107.8	80-120
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28956: FA24506-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/15

Metal	FA24506-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	5190	4550	12.4*(a)	0-10
Lead	anr			
Magnesium	anr			
Manganese	4730	4210	10.9*(a)	0-10
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28956: FA24506-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28956
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/21/15

Metal	Sample ml	Final ml	FA24506-1 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	5190	5086.2	8081	0.2	150	3000	99.8	80-120
Lead										
Magnesium										
Manganese	9.8	10	4731	4636.38	4681	0.2	2.5	50	89.2	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28956: FA24506-1

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: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					05/27/15		05/27/15		05/27/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	14	14						
Antimony	6.0	1	1						
Arsenic	10	1.3	1.3						
Barium	200	1	1						
Beryllium	4.0	.2	.2						
Cadmium	5.0	.2	.2						
Calcium	1000	50	50						
Chromium	10	1	1						
Cobalt	50	.2	.2						
Copper	25	1	1						
Iron	300	17	17						
Lead	5.0	1	1.1						
Magnesium	5000	35	35						
Manganese	15	.5	1	0.0	<15	0.80	<15	-0.10	<15
Molybdenum	50	.3	.3						
Nickel	40	.4	.4						
Potassium	10000	200	200						
Selenium	10	2.4	2.9						
Silver	10	.7	.7						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.1	1.4						
Tin	50	.9	1						
Titanium	10	.5	1						
Vanadium	50	.5	.6						
Zinc	20	3	4.4						

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/27/15					05/27/15	
Metal	FA24506-1F Original	DUP	RPD	QC Limits	FA24506-1F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	anr								
Lead									
Magnesium									
Manganese	4970	4980	0.2	0-20	4970	5560	500	118.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24506-1F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	anr					
Lead						
Magnesium						
Manganese	4970	5340	500	74.0 (a)	4.0	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	anr			
Lead				
Magnesium				
Manganese	577	500	115.4	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24506-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	anr			
Lead				
Magnesium				
Manganese	4970	5230	5.1	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	Sample ml	Final ml	FA24506-1F 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	4972	4872.56	5054	0.2	2.5	50	362.9*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28973: FA24506-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

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: FA24506
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	GP26025/GN66449	2.0	0.0	mg/l	198	206	104.0	85-115%
Chemical Oxygen Demand	GP26062/GN66485	20	0.0	mg/l	50.0	52.1	104.1	87-122%
Chloride	GP26029/GN66406	2.0	0.0	mg/l	50	52.8	105.6	90-110%
Fluoride	GP26029/GN66406	0.20	0.0	mg/l	2.5	2.68	107.2	90-110%
Iron, Ferrous	GN66397	0.10	0.0	mg/l				
Nitrogen, Ammonia	GP26079/GN66528	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Nitrogen, Nitrate	GP26029/GN66406	0.10	0.0	mg/l	2.5	2.58	103.2	90-110%
Nitrogen, Nitrite	GP26029/GN66406	0.10	0.0	mg/l	2.5	2.66	106.4	90-110%
Nitrogen, Total Kjeldahl	GP26061/GN66493	0.53	0.0	mg/l	2.63	2.67	101.7	90-110%
Solids, Total Dissolved	GN66429	100	0.0	mg/l				
Sulfate	GP26029/GN66406	2.0	0.0	mg/l	50	52.7	105.4	90-110%

Associated Samples:
Batch GN66397: FA24506-1
Batch GN66429: FA24506-1
Batch GP26025: FA24506-1
Batch GP26029: FA24506-1
Batch GP26061: FA24506-1
Batch GP26062: FA24506-1
Batch GP26079: FA24506-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24506
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP26025/GN66449	FA24506-1	mg/l	4.0 U	0.0	127.3(a)	0-30%
Iron, Ferrous	GN66397	FA24506-1	mg/l	1.1	0.13	8.0	0-31%
Solids, Total Dissolved	GN66429	FA24449-20	mg/l	431	436	1.2	0-5%

Associated Samples:
Batch GN66397: FA24506-1
Batch GN66429: FA24506-1
Batch GP26025: FA24506-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24506
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	GP26062/GN66485	FA24506-1	mg/l	23.7	50.0	73.4	99.4	87-122%
Chloride	GP26029/GN66406	FA24509-2	mg/l	25.2	50	77.9	105.4	90-110%
Fluoride	GP26029/GN66406	FA24509-2	mg/l	0.072	2.5	2.8	109.1	90-110%
Nitrogen, Ammonia	GP26079/GN66528	FA24506-1	mg/l	0.66	2.5	3.2	101.6	90-110%
Nitrogen, Nitrate	GP26029/GN66406	FA24509-2	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Nitrite	GP26029/GN66406	FA24509-2	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Total Kjeldahl	GP26061/GN66493	FA24506-1	mg/l	2.4	2.63	5.2	106.7	90-110%
Sulfate	GP26029/GN66406	FA24509-2	mg/l	8.4	50	61.8	106.8	90-110%

Associated Samples:
Batch GP26029: FA24506-1
Batch GP26061: FA24506-1
Batch GP26062: FA24506-1
Batch GP26079: FA24506-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24506
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	GP26062/GN66485	FA24506-1	mg/l	23.7	50.0	71.0	3.3	26%
Chloride	GP26029/GN66406	FA24509-2	mg/l	25.2	50	78.1	0.3	20%
Fluoride	GP26029/GN66406	FA24509-2	mg/l	0.072	2.5	2.8	0.0	20%
Nitrogen, Ammonia	GP26079/GN66528	FA24506-1	mg/l	0.66	2.5	3.2	0.0	20%
Nitrogen, Nitrate	GP26029/GN66406	FA24509-2	mg/l	0.0	2.5	2.6	0.0	20%
Nitrogen, Nitrite	GP26029/GN66406	FA24509-2	mg/l	0.0	2.5	2.6	0.0	20%
Nitrogen, Total Kjeldahl	GP26061/GN66493	FA24506-1	mg/l	2.4	2.63	4.8	8.0	20%
Sulfate	GP26029/GN66406	FA24509-2	mg/l	8.4	50	62.0	0.3	20%

Associated Samples:
Batch GP26029: FA24506-1
Batch GP26061: FA24506-1
Batch GP26062: FA24506-1
Batch GP26079: FA24506-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/12/15

Technical Report for

Nation View

Holloman AFB; SS17

8080014.02.020

Accutest Job Number: FA24537

Sampling Date: 05/19/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **206**

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.

Norm Farmer
Technical Director

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Accutest Laboratories

Sample Summary

Nation View

Job No: FA24537

Holloman AFB; SS17
Project No: 8080014.02.020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24537-1	05/19/15	12:10	KFSH	05/21/15	AQ	Ground Water	SS17-MW10
FA24537-1F	05/19/15	12:10	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW10
FA24537-2	05/19/15	14:30	KFSH	05/21/15	AQ	Ground Water	SS17-MW01
FA24537-2F	05/19/15	14:30	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW01
FA24537-3	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 7
FA24537-4	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 8
FA24537-5	05/19/15	12:00	KFSH	05/21/15	AQ	Ground Water	SS17-MW11
FA24537-5F	05/19/15	12:00	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW11
FA24537-6	05/19/15	10:35	KFSH	05/21/15	AQ	Ground Water	SS17-MW09
FA24537-6F	05/19/15	10:35	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW09
FA24537-7	05/19/15	09:40	KFSH	05/21/15	AQ	Ground Water	SS17-MW13
FA24537-7F	05/19/15	09:40	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW13
FA24537-8	05/19/15	13:30	KFSH	05/21/15	AQ	Ground Water	SS17-MW02

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: FA24537

Holloman AFB; SS17
Project No: 8080014.02.020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24537-8F	05/19/15	13:30	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW02
FA24537-9	05/19/15	15:35	KFSH	05/21/15	AQ	Ground Water	SS17-MW23
FA24537-9F	05/19/15	15:35	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW23
FA24537-10	05/19/15	08:45	KFSH	05/21/15	AQ	Ground Water	SS17-MWBX02
FA24537-10F	05/19/15	08:45	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MWBX02
FA24537-11	05/19/15	08:05	KFSH	05/21/15	AQ	Ground Water	SS17-MW17
FA24537-11F	05/19/15	08:05	KFSH	05/21/15	AQ	Groundwater Filtered	SS17-MW17
FA24537-12	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 1
FA24537-13	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 2
FA24537-14	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 3
FA24537-15	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 4
FA24537-16	05/19/15	00:00	KFSH	05/21/15	AQ	Trip Blank Water	TRIP BLANK 5

Summary of Hits

Job Number: FA24537
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/19/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24537-1	**SS17-MW10**					
1,2-Dichloroethane		0.81 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.2	1.0	0.30	ug/l	SW846 8260B
TPH (C10-C22)		0.140 J	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.149 J	0.20	0.080	mg/l	SW846 8015C
Iron		2140	300	17	ug/l	SW846 6010C
Manganese		2060	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		21.3	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		1.6	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.53	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.15	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		8900	2000	200	mg/l	SM2540 C-11
Sulfate		5550	200	60	mg/l	EPA 300/SW846 9056A
FA24537-1F	**SS17-MW10**					
Manganese		2100	15	1.0	ug/l	SW846 6010C
FA24537-2	**SS17-MW01**					
Iron		108 J	300	17	ug/l	SW846 6010C
Manganese		248	15	1.0	ug/l	SW846 6010C
Iron, Ferric [a]		0.11 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		2.6	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		0.80	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2940	200	20	mg/l	SM2540 C-11
Sulfate		1870	50	15	mg/l	EPA 300/SW846 9056A
FA24537-2F	**SS17-MW01**					
Manganese		144	15	1.0	ug/l	SW846 6010C
FA24537-3	**TRIP BLANK 7**					
Toluene		1.6	1.0	0.40	ug/l	SW846 8260B
FA24537-4	**TRIP BLANK 8**					
No hits reported in this sample.						
FA24537-5	**SS17-MW11**					
1,2-Dichloroethane		8.2	1.0	0.20	ug/l	SW846 8260B

Summary of Hits

Job Number: FA24537
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/19/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether	80.2	1.0	0.30	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.211	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.426	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)	0.307	0.20	0.080	mg/l	SW846 8015C
Iron	3310	300	17	ug/l	SW846 6010C
Manganese	2720	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	37.9	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]	2.3	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]	1.0	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.52	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.6	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	6550	500	50	mg/l	SM2540 C-11
Sulfate	3450	100	30	mg/l	EPA 300/SW846 9056A
FA24537-5F SS17-MW11					
Manganese	2680	15	1.0	ug/l	SW846 6010C
FA24537-6 SS17-MW09					
1,2-Dichloroethane	0.31 J	1.0	0.20	ug/l	SW846 8260B
TPH (> C22-C36)	0.146 J	0.20	0.080	mg/l	SW846 8015C
Iron	57.9 J	300	17	ug/l	SW846 6010C
Manganese	203	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	14.2 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]	0.058 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate	14.0 J	20	10	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.6	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	7060	500	50	mg/l	SM2540 C-11
Sulfate	4620	100	30	mg/l	EPA 300/SW846 9056A
FA24537-6F SS17-MW09					
Manganese	192	15	1.0	ug/l	SW846 6010C
FA24537-7 SS17-MW13					
1,2-Dichloroethane	3.9	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether	1.9	1.0	0.30	ug/l	SW846 8260B
TPH (> C22-C36)	0.140 J	0.20	0.080	mg/l	SW846 8015C
Iron	61.9 J	300	17	ug/l	SW846 6010C
Manganese	553	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	18.9 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]	0.062 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate	3.7	0.10	0.050	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA24537
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/19/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nitrogen, Total Kjeldahl		1.8	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		11000	1000	100	mg/l	SM2540 C-11
Sulfate		6040	200	60	mg/l	EPA 300/SW846 9056A
FA24537-7F	**SS17-MW13**					
Manganese		538	15	1.0	ug/l	SW846 6010C
FA24537-8	**SS17-MW02**					
TPH (> C22-C36)		0.145 J	0.20	0.080	mg/l	SW846 8015C
Iron		45.0 J	300	17	ug/l	SW846 6010C
Manganese		19.7	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		21.3	20	5.3	mg/l	SM5220 C-11
Nitrogen, Nitrate		4.0	2.5	1.3	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		0.86	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		4780	500	50	mg/l	SM2540 C-11
Sulfate		2960	100	30	mg/l	EPA 300/SW846 9056A
FA24537-8F	**SS17-MW02**					
Manganese		18.9	15	1.0	ug/l	SW846 6010C
FA24537-9	**SS17-MW23**					
Benzene		0.56 J	1.0	0.20	ug/l	SW846 8260B
2-Butanone (MEK)		1.5 J	5.0	1.2	ug/l	SW846 8260B
Ethylbenzene		0.24 J	1.0	0.20	ug/l	SW846 8260B
o-Xylene		0.33 J	1.0	0.20	ug/l	SW846 8260B
TPH (C10-C22)		0.733	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.490	0.20	0.080	mg/l	SW846 8015C
Iron		5680	300	17	ug/l	SW846 6010C
Manganese		2150	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		45.0	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		3.1	0.80	0.17	mg/l	SM3500FE B-11
Iron, Ferrous [b]		2.6	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.75	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		6850	500	50	mg/l	SM2540 C-11
Sulfate		3410	100	30	mg/l	EPA 300/SW846 9056A
FA24537-9F	**SS17-MW23**					
Manganese		2080	15	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: FA24537
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/19/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24537-10	**SS17-MWBX02**					
sec-Butylbenzene		0.41 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		37.6	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.56 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		194	5.0	1.5	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.326	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.262	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.280	0.20	0.080	mg/l	SW846 8015C
Iron		987	300	17	ug/l	SW846 6010C
Manganese		8160	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		14.2	8.0	8.0	mg/l	SM5210 B-11
Chemical Oxygen Demand		28.4	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		0.59	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.40	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.071 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		0.62	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		11400	1000	100	mg/l	SM2540 C-11
Sulfate		5900	200	60	mg/l	EPA 300/SW846 9056A
FA24537-10F	**SS17-MWBX02**					
Manganese		7600	15	1.0	ug/l	SW846 6010C
FA24537-11	**SS17-MW17**					
1,2-Dichloroethane		0.33 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		3.7	1.0	0.30	ug/l	SW846 8260B
Iron		65.9 J	300	17	ug/l	SW846 6010C
Manganese		1250	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		11.8 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [a]		0.066 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia		4.5	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		5.3	1.1	0.34	mg/l	EPA 351.2
Solids, Total Dissolved		3990	200	20	mg/l	SM2540 C-11
Sulfate		2360	50	15	mg/l	EPA 300/SW846 9056A
FA24537-11F	**SS17-MW17**					
Manganese		1120	15	1.0	ug/l	SW846 6010C
FA24537-12	**TRIP BLANK 1**					

No hits reported in this sample.

Summary of Hits

Job Number: FA24537
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/19/15

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

FA24537-13 TRIP BLANK 2

No hits reported in this sample.

FA24537-14 TRIP BLANK 3

No hits reported in this sample.

FA24537-15 TRIP BLANK 4

No hits reported in this sample.

FA24537-16 TRIP BLANK 5

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-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0085567.D	1	05/27/15	RB	n/a	n/a	VN3805
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.81	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	SS17-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	125%		79-125%
2037-26-5	Toluene-D8	95%		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-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682570.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
Run #2							

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

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	54%		14-67%
4165-62-2	Phenol-d5	44%		10-50%
118-79-6	2,4,6-Tribromophenol	103%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	94%		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-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133716.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		70-131%
98-08-8	aaa-Trifluorotoluene	87%		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-MW10		
Lab Sample ID:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3913.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.140	0.20	0.080	mg/l	J
	TPH (> C22-C36)	0.149	0.20	0.080	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		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:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2140	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2060	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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:	FA24537-1	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	21.3	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	1.6	0.40	0.047	mg/l	1	05/22/15 14:33	LM	SM3500FE B-11
Iron, Ferrous [b]	0.53	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.15	0.10	0.030	mg/l	1	05/30/15 18:39	JC	EPA 350.1
Nitrogen, Nitrate [c]	10 U	20	10	mg/l	200	05/21/15 12:53	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.4	0.53	0.17	mg/l	1	05/27/15 17:28	DM	EPA 351.2
Solids, Total Dissolved	8900	2000	200	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	5550	200	60	mg/l	100	06/09/15 15:23	VK	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-MW10		
Lab Sample ID:	FA24537-1F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2100	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0085568.D	1	05/27/15	RB	n/a	n/a	VN3805
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	SS17-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	126% [a]		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Outside control limits; however, sample is ND.

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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682571.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
Run #2							

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

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	55%		14-67%
4165-62-2	Phenol-d5	44%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

(a) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133717.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		70-131%
98-08-8	aaa-Trifluorotoluene	83%		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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3914.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	108 J	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	248	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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-MW01		
Lab Sample ID:	FA24537-2	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.11 J	0.40	0.047	mg/l	1	05/22/15 14:38	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:37	JC	EPA 350.1
Nitrogen, Nitrate	2.6	1.0	0.50	mg/l	10	05/21/15 14:14	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.80	0.53	0.17	mg/l	1	05/27/15 17:29	DM	EPA 351.2
Solids, Total Dissolved	2940	200	20	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	1870	50	15	mg/l	25	06/09/15 15:40	VK	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-MW01		
Lab Sample ID:	FA24537-2F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	144	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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 7		
Lab Sample ID:	FA24537-3	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0085644.D	1	05/29/15	RB	n/a	n/a	VN3809
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	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 7		
Lab Sample ID:	FA24537-3	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	1.6	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 7		
Lab Sample ID:	FA24537-3	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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 8		
Lab Sample ID:	FA24537-4	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0085570.D	1	05/27/15	RB	n/a	n/a	VN3805
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 8		
Lab Sample ID:	FA24537-4	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 8		
Lab Sample ID:	FA24537-4	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	131% [a]		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Outside control limits; however, sample is ND.

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:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30211.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	8.2	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	80.2	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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:	SS17-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated ICV 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-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682572.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
Run #2							

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

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	38%		10-50%
118-79-6	2,4,6-Tribromophenol	97%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

(a) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133759.D	1	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.211	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		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-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3915.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.426	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.307	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		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-MW11		
Lab Sample ID:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3310	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2720	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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:	FA24537-5	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	37.9	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	2.3	0.40	0.047	mg/l	1	05/22/15 14:43	LM	SM3500FE B-11
Iron, Ferrous [b]	1.0	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.52	0.10	0.030	mg/l	1	05/30/15 18:38	JC	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	05/21/15 11:49	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.6	0.53	0.17	mg/l	1	05/27/15 17:32	DM	EPA 351.2
Solids, Total Dissolved	6550	500	50	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	3450	100	30	mg/l	50	06/04/15 15:42	VK	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-MW11		
Lab Sample ID:	FA24537-5F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2680	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30193.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.31	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV 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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682573.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.49	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.49	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.49	ug/l	
	3&4-Methylphenol	ND	4.9	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.86	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	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	0.66	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.62	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	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine [a]	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.67	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.83	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.62	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.62	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.49	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.56	ug/l	
218-01-9	Chrysene	ND	4.9	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.66	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.62	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.51	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.57	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.68	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	0.98	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.62	ug/l	
78-59-1	Isophorone	ND	4.9	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.97	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.51	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.98	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.57	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.58	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.50	ug/l	
129-00-0	Pyrene	ND	4.9	0.54	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	101%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	98%		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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133719.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		70-131%
98-08-8	aaa-Trifluorotoluene	81%		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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3920.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.146	0.20	0.080	mg/l	J

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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	57.9 J	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	203	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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-MW09		
Lab Sample ID:	FA24537-6	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	14.2 J	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.058 J	0.40	0.047	mg/l	1	05/22/15 14:48	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:42	JC	EPA 350.1
Nitrogen, Nitrate	14.0 J	20	10	mg/l	200	05/21/15 14:30	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.6	0.53	0.17	mg/l	1	05/27/15 17:33	DM	EPA 351.2
Solids, Total Dissolved	7060	500	50	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	4620	100	30	mg/l	50	06/04/15 15:59	VK	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-MW09		
Lab Sample ID:	FA24537-6F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	192	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30194.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	3.9	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated ICV 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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682574.D	1	05/30/15	MV	05/24/15	OP56197	SL3664
Run #2							

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

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	36%		10-50%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	76%		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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133743.D	1	05/23/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		70-131%
98-08-8	aaa-Trifluorotoluene	84%		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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3921.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.140	0.20	0.080	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	61.9 J	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	553	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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-MW13		
Lab Sample ID:	FA24537-7	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	18.9 J	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.062 J	0.40	0.047	mg/l	1	05/22/15 14:52	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:43	JC	EPA 350.1
Nitrogen, Nitrate	3.7	0.10	0.050	mg/l	1	05/21/15 21:47	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.8	0.53	0.17	mg/l	1	05/27/15 17:34	DM	EPA 351.2
Solids, Total Dissolved	11000	1000	100	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	6040	200	60	mg/l	100	06/04/15 16:50	VK	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-MW13		
Lab Sample ID:	FA24537-7F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	538	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30195.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	96%		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	104%		83-118%

(a) Associated ICV 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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682575.D	1	05/30/15	MV	05/24/15	OP56197	SL3664
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	56	11	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.6	0.56	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.56	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	0.56	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	5.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.4	ug/l	
95-48-7	2-Methylphenol	ND	5.6	0.56	ug/l	
	3&4-Methylphenol	ND	5.6	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	0.98	ug/l	
100-02-7	4-Nitrophenol	ND	28	5.6	ug/l	
87-86-5	Pentachlorophenol	ND	28	5.6	ug/l	
108-95-2	Phenol	ND	5.6	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	0.75	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	0.70	ug/l	
83-32-9	Acenaphthene	ND	5.6	0.56	ug/l	
208-96-8	Acenaphthylene	ND	5.6	0.56	ug/l	
62-53-3	Aniline	ND	5.6	1.1	ug/l	
120-12-7	Anthracene	ND	5.6	0.56	ug/l	
92-87-5	Benzidine [a]	ND	28	5.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.6	0.56	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.6	0.56	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.6	0.64	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.6	0.73	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.6	0.76	ug/l	
100-51-6	Benzyl Alcohol	ND	5.6	0.94	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.6	0.71	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.6	1.1	ug/l	
86-74-8	Carbazole	ND	5.6	0.56	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.70	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.77	ug/l	

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

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.56	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.56	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.6	0.64	ug/l	
218-01-9	Chrysene	ND	5.6	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.6	0.75	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.56	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.70	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.72	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.58	ug/l	
84-66-2	Diethyl Phthalate	ND	5.6	1.6	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.6	1.1	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.6	1.1	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.6	1.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.6	0.65	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.6	0.77	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.67	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.6	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.6	0.56	ug/l	
86-73-7	Fluorene	ND	5.6	0.56	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.70	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.6	0.67	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.6	1.1	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.76	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.6	0.70	ug/l	
78-59-1	Isophorone	ND	5.6	0.57	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.6	0.56	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.6	0.56	ug/l	
91-20-3	Naphthalene	ND	5.6	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.56	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.59	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.1	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.6	0.64	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.66	ug/l	
85-01-8	Phenanthrene	ND	5.6	0.57	ug/l	
129-00-0	Pyrene	ND	5.6	0.61	ug/l	
110-86-1	Pyridine	ND	11	2.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	30%		10-50%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	69%		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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133725.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		70-131%
98-08-8	aaa-Trifluorotoluene	81%		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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3922.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.145	0.20	0.080	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	45.0 J	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	19.7	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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-MW02		
Lab Sample ID:	FA24537-8	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	21.3	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/22/15 14:57	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:44	JC	EPA 350.1
Nitrogen, Nitrate	4.0	2.5	1.3	mg/l	25	05/21/15 13:10	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.86	0.53	0.17	mg/l	1	05/27/15 17:36	DM	EPA 351.2
Solids, Total Dissolved	4780	500	50	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	2960	100	30	mg/l	50	06/05/15 20:55	VK	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-MW02		
Lab Sample ID:	FA24537-8F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	18.9	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30196.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.56	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	1.5	5.0	1.2	ug/l	J
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	0.24	1.0	0.20	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	0.33	1.0	0.20	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-MW23		
Lab Sample ID:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV 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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682567.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.49	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.49	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.49	ug/l	
	3&4-Methylphenol	ND	4.9	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.86	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	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	0.66	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.62	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	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine [a]	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.67	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.83	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.62	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.62	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.49	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.56	ug/l	
218-01-9	Chrysene	ND	4.9	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.66	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.62	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.51	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.57	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.68	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	0.98	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.62	ug/l	
78-59-1	Isophorone	ND	4.9	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.97	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.51	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.98	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.57	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.58	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.50	ug/l	
129-00-0	Pyrene	ND	4.9	0.54	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	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-MW23		
Lab Sample ID:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	38%		10-50%
118-79-6	2,4,6-Tribromophenol	107%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

(a) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MW23		
Lab Sample ID:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133726.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		70-131%
98-08-8	aaa-Trifluorotoluene	85%		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-MW23		
Lab Sample ID:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3951.D	1	06/03/15	SJL	05/23/15	OP56196	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.733	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.490	0.20	0.080	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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5680	300	17	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2150	15	1.0	ug/l	1	05/22/15	05/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12421
(2) Prep QC Batch: MP28960

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:	FA24537-9	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	45.0	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	3.1	0.80	0.17	mg/l	1	05/22/15 15:02	LM	SM3500FE B-11
Iron, Ferrous [b]	2.6	0.50	0.16	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.75	0.10	0.030	mg/l	1	05/30/15 18:45	JC	EPA 350.1
Nitrogen, Nitrate [c]	10 U	20	10	mg/l	200	05/21/15 13:58	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	2.6	0.53	0.17	mg/l	1	05/27/15 17:37	DM	EPA 351.2
Solids, Total Dissolved	6850	500	50	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	3410	100	30	mg/l	50	06/04/15 17:24	VK	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:	FA24537-9F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	2080	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30212.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2	I30223.D	5	06/01/15	WV	n/a	n/a	VI732

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	0.41	1.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	37.6	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.56	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	194 [a]	5.0	1.5	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	96%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Result is from Run# 2
(b) Associated ICV 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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682576.D	1	05/30/15	MV	05/24/15	OP56197	SL3664
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.49	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.49	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.49	ug/l	
	3&4-Methylphenol	ND	4.9	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.86	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	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	0.66	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.62	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	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine [a]	ND	25	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.57	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.65	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.67	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.83	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.62	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.62	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.49	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.56	ug/l	
218-01-9	Chrysene	ND	4.9	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.66	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.62	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.64	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.51	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.57	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.68	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	0.98	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.62	ug/l	
78-59-1	Isophorone	ND	4.9	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.97	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.51	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.98	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.57	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.58	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.50	ug/l	
129-00-0	Pyrene	ND	4.9	0.54	ug/l	
110-86-1	Pyridine	ND	9.8	2.0	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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	45%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	85%		42-108%
321-60-8	2-Fluorobiphenyl	84%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

(a) Associated BS recovery outside control limits.

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

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

Report of Analysis

Client Sample ID:	SS17-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133727.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.326	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3924.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.262	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.280	0.20	0.080	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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	987	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	8160	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MWBX02		
Lab Sample ID:	FA24537-10	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	14.2	8.0	8.0	mg/l	4	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	28.4	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.59	0.40	0.047	mg/l	1	05/27/15 11:36	LM	SM3500FE B-11
Iron, Ferrous [b]	0.40	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	0.071 J	0.10	0.030	mg/l	1	05/30/15 18:46	JC	EPA 350.1
Nitrogen, Nitrate [c]	5.0 U	10	5.0	mg/l	100	05/21/15 22:51	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.62	0.53	0.17	mg/l	1	05/27/15 17:38	DM	EPA 351.2
Solids, Total Dissolved	11400	1000	100	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	5900	200	60	mg/l	100	06/04/15 17:41	VK	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-MWBX02		
Lab Sample ID:	FA24537-10F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	7600	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30197.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.33	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.7	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated ICV 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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	L0682577.D	1	05/30/15	MV	05/24/15	OP56197	SL3664
Run #2							

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

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	2.1	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.65	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.56	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	0.66	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.82	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.61	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.61	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.49	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.65	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.61	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.61	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.58	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.96	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.66	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.61	ug/l	
78-59-1	Isophorone	ND	4.8	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.96	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.57	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.53	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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	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	76%		40-106%
1718-51-0	Terphenyl-d14	76%		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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133728.D	1	05/22/15	EG	n/a	n/a	GCD5504
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		70-131%
98-08-8	aaa-Trifluorotoluene	77%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	SS17-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
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	WW3925.D	1	06/02/15	SJL	05/23/15	OP56196	GWW175
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	65.9 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1250	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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-MW17		
Lab Sample ID:	FA24537-11	**Date Sampled:**	05/19/15
Matrix:	AQ - Ground Water	**Date Received:**	05/21/15
		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	05/26/15 09:40	LE	SM5210 B-11
Chemical Oxygen Demand	11.8 J	20	5.3	mg/l	1	05/27/15 16:17	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.066 J	0.40	0.047	mg/l	1	05/27/15 12:04	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/21/15 14:00	DM	SM3500FE B-11
Nitrogen, Ammonia	4.5	0.10	0.030	mg/l	1	05/30/15 18:47	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	05/21/15 22:03	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	5.3	1.1	0.34	mg/l	2	05/27/15 17:44	DM	EPA 351.2
Solids, Total Dissolved	3990	200	20	mg/l	1	05/26/15 14:10	KC	SM2540 C-11
Sulfate	2360	50	15	mg/l	25	06/04/15 17:58	VK	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-MW17		
Lab Sample ID:	FA24537-11F	**Date Sampled:**	05/19/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/21/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	1120	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28972

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 1		
Lab Sample ID:	FA24537-12	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30198.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 1		
Lab Sample ID:	FA24537-12	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 1		
Lab Sample ID:	FA24537-12	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated ICV 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 2		
Lab Sample ID:	FA24537-13	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30199.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 2		
Lab Sample ID:	FA24537-13	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 2		
Lab Sample ID:	FA24537-13	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated ICV 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 3		
Lab Sample ID:	FA24537-14	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30200.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 3		
Lab Sample ID:	FA24537-14	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 3		
Lab Sample ID:	FA24537-14	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	97%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated ICV 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 4		
Lab Sample ID:	FA24537-15	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30201.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 4		
Lab Sample ID:	FA24537-15	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 4		
Lab Sample ID:	FA24537-15	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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	96%		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	102%		83-118%

(a) Associated ICV 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 5		
Lab Sample ID:	FA24537-16	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30202.D	1	05/29/15	WV	n/a	n/a	VI731
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 5		
Lab Sample ID:	FA24537-16	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 5		
Lab Sample ID:	FA24537-16	**Date Sampled:**	05/19/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/21/15
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%		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	103%		83-118%

(a) Associated ICV 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

FA24537

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 05202015
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: K Fuller / S Harrison

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
1	SS17-MW10	SS17-MW10	19-May-15	1210	-	N		WG	18	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐								7
2	SS17-MW01	SS17-MW01	19-May-15	1430	-	N		WG	18	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐								8
3	TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☐																	7
4	TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☐																	8

COMMENTS:

Send results to: tlucero@nationview.net,

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	5202015		1. FX		09:15
2. FX			2. George (ALSE)	5-21-15	
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:
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 3-2 3-0
2-6 2-8 3-2 2-8

4.1
4

FA24537: Chain of Custody
Page 1 of 4

NATIONVIEW

FA 24537

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 05202015
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: K Fuller / S Harrison

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-MW11	SS17-MW11	19-May-15	1200	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
SS17-MW09	SS17-MW09	19-May-15	1035	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
SS17-MW13	SS17-MW13	19-May-15	940	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
SS17-MW02	SS17-MW02	19-May-15	1330	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
SS17-MW23	SS17-MW23	19-May-15	1535	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								4
SS17-MWBX02	SS17-MWBX02	19-May-15	0845	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								5
SS17-MW17	SS17-MW17	19-May-15	0805	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								6
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	1
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	2
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	3
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	4
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	5
TRIP BLANK	Field QC	19-May-15		-	TB		AQ	1	☒																	6

COMMENTS:

Send results to: tlucero@nationview.net,

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	5202015		1. FX		09:15
2. FX			2. Jesse (ASR)	5-21-15	
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:
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

FA24537: Chain of Custody
Page 2 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 24537 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 5-21-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 8

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

AIRBILL NUMBERS: 7736 4773 0799

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 7
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0 3.2 3.1 3.2 2.8 3.0 3.1 3.0
- [ ] CORRECTED TEMPS: 2.8 3.0 3.2 3.0 2.6 2.8 3.2 2.8

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
- [X] 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 LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE (A036122) NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: NO DISS METAL RECEIVED FOR SAMPLE #8; RECEIVED 2 AMN TKN COD 8015 DRO RECEIVED ON 250 ml AMBERS. RECEIVED 7 TB COC reads 8

TECHNICIAN SIGNATURE/DATE 5-21-15 REVIEWER SIGNATURE/DATE 05-21-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA24537: Chain of Custody

Page 3 of 2

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1206 Vandenberg Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15121502200bw

Ship Date: 20MAY15
Act Wgt: 40.0 LB
CAD: 100026631/INET3610

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 # 11-0019.73.010

1 of 15

TRK# 7736 4773 0799
6261

MASTER

XH TIXA

THU - 21 MAY 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

537JC3HEE49

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.

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: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-MB	N0085559.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-MB	N0085559.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-MB	N0085559.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-MB	I30192.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-MB	I30192.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-MB	I30192.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	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	103%	83-118%

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-MB	N0085638.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-MB	N0085638.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-MB	N0085638.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	83-118%
17060-07-0	1,2-Dichloroethane-D4	119%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI732-MB	I30222.D	1	06/01/15	WV	n/a	n/a	VI732

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-10

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	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	101%	83-118%

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-BS	N0085557.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	50-147
107-02-8	Acrolein	125	129	103	31-154
107-13-1	Acrylonitrile	125	138	110	58-126
71-43-2	Benzene	25	25.7	103	81-122
108-86-1	Bromobenzene	25	24.5	98	80-121
74-97-5	Bromochloromethane	25	24.8	99	76-123
75-27-4	Bromodichloromethane	25	25.1	100	79-123
75-25-2	Bromoform	25	24.1	96	66-123
78-93-3	2-Butanone (MEK)	125	121	97	56-143
104-51-8	n-Butylbenzene	25	29.0	116	79-126
135-98-8	sec-Butylbenzene	25	27.4	110	83-133
98-06-6	tert-Butylbenzene	25	26.0	104	80-133
75-15-0	Carbon Disulfide	25	27.7	111	66-148
56-23-5	Carbon Tetrachloride	25	27.5	110	76-136
108-90-7	Chlorobenzene	25	25.9	104	82-124
75-00-3	Chloroethane	25	25.9	104	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	127	102	56-122
67-66-3	Chloroform	25	25.8	103	80-124
95-49-8	o-Chlorotoluene	25	26.3	105	81-127
106-43-4	p-Chlorotoluene	25	28.7	115	83-130
124-48-1	Dibromochloromethane	25	24.9	100	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.5	90	64-123
106-93-4	1,2-Dibromoethane	25	24.0	96	75-120
75-71-8	Dichlorodifluoromethane	25	28.5	114	42-167
95-50-1	1,2-Dichlorobenzene	25	24.8	99	82-124
541-73-1	1,3-Dichlorobenzene	25	25.2	101	84-125
106-46-7	1,4-Dichlorobenzene	25	24.9	100	78-120
75-34-3	1,1-Dichloroethane	25	27.0	108	81-122
107-06-2	1,2-Dichloroethane	25	24.8	99	75-125
75-35-4	1,1-Dichloroethylene	25	29.1	116	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	25.3	101	76-124
142-28-9	1,3-Dichloropropane	25	22.9	92	80-118
594-20-7	2,2-Dichloropropane	25	27.7	111	74-139
563-58-6	1,1-Dichloropropene	25	28.0	112	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-BS	N0085557.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.0	108	80-120
100-41-4	Ethylbenzene	25	26.3	105	81-121
87-68-3	Hexachlorobutadiene	25	26.1	104	75-142
591-78-6	2-Hexanone	125	128	102	61-129
98-82-8	Isopropylbenzene	25	27.2	109	83-132
99-87-6	p-Isopropyltoluene	25	26.5	106	79-130
74-83-9	Methyl Bromide	25	28.7	115	59-143
74-87-3	Methyl Chloride	25	26.6	106	50-159
74-95-3	Methylene Bromide	25	23.8	95	78-119
75-09-2	Methylene Chloride	25	25.1	100	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	129	103	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.4	94	72-117
91-20-3	Naphthalene	25	26.5	106	63-132
103-65-1	n-Propylbenzene	25	27.3	109	82-133
100-42-5	Styrene	25	26.0	104	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	24.8	99	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	22.3	89	72-120
127-18-4	Tetrachloroethylene	25	27.2	109	76-135
108-88-3	Toluene	25	25.5	102	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.7	99	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.8	99	73-129
71-55-6	1,1,1-Trichloroethane	25	27.0	108	75-130
79-00-5	1,1,2-Trichloroethane	25	23.8	95	76-119
79-01-6	Trichloroethylene	25	26.9	108	81-126
75-69-4	Trichlorofluoromethane	25	28.9	116	71-156
96-18-4	1,2,3-Trichloropropane	25	23.5	94	77-120
95-63-6	1,2,4-Trimethylbenzene	25	25.5	102	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.9	104	79-120
108-05-4	Vinyl Acetate	125	84.8	68	43-154
75-01-4	Vinyl Chloride	25	28.1	112	69-159
	m,p-Xylene	50	53.6	107	79-126
95-47-6	o-Xylene	25	29.1	116	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3805-BS	N0085557.D	1	05/27/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Surrogate Recoveries	BSP	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	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-BS	I30190.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	111	89	50-147
107-02-8	Acrolein	125	111	89	31-154
107-13-1	Acrylonitrile	125	125	100	58-126
71-43-2	Benzene	25	24.9	100	81-122
108-86-1	Bromobenzene	25	23.1	92	80-121
74-97-5	Bromochloromethane	25	24.2	97	76-123
75-27-4	Bromodichloromethane	25	25.1	100	79-123
75-25-2	Bromoform	25	23.9	96	66-123
78-93-3	2-Butanone (MEK)	125	112	90	56-143
104-51-8	n-Butylbenzene	25	27.6	110	79-126
135-98-8	sec-Butylbenzene	25	27.2	109	83-133
98-06-6	tert-Butylbenzene	25	26.6	106	80-133
75-15-0	Carbon Disulfide	25	25.4	102	66-148
56-23-5	Carbon Tetrachloride	25	28.1	112	76-136
108-90-7	Chlorobenzene	25	24.4	98	82-124
75-00-3	Chloroethane	25	22.8	91	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	101	81	56-122
67-66-3	Chloroform	25	24.5	98	80-124
95-49-8	o-Chlorotoluene	25	25.5	102	81-127
106-43-4	p-Chlorotoluene	25	24.7	99	83-130
124-48-1	Dibromochloromethane	25	23.2	93	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.7	91	64-123
106-93-4	1,2-Dibromoethane	25	23.4	94	75-120
75-71-8	Dichlorodifluoromethane	25	27.0	108	42-167
95-50-1	1,2-Dichlorobenzene	25	24.0	96	82-124
541-73-1	1,3-Dichlorobenzene	25	24.3	97	84-125
106-46-7	1,4-Dichlorobenzene	25	23.9	96	78-120
75-34-3	1,1-Dichloroethane	25	25.7	103	81-122
107-06-2	1,2-Dichloroethane	25	23.3	93	75-125
75-35-4	1,1-Dichloroethylene	25	27.2	109	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.3	105	76-127
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
142-28-9	1,3-Dichloropropane	25	22.8	91	80-118
594-20-7	2,2-Dichloropropane	25	29.0	116	74-139
563-58-6	1,1-Dichloropropene	25	26.2	105	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-BS	I30190.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	80-120
100-41-4	Ethylbenzene	25	25.4	102	81-121
87-68-3	Hexachlorobutadiene	25	28.1	112	75-142
591-78-6	2-Hexanone	125	119	95	61-129
98-82-8	Isopropylbenzene	25	27.0	108	83-132
99-87-6	p-Isopropyltoluene	25	26.8	107	79-130
74-83-9	Methyl Bromide	25	24.8	99	59-143
74-87-3	Methyl Chloride	25	24.1	96	50-159
74-95-3	Methylene Bromide	25	23.9	96	78-119
75-09-2	Methylene Chloride	25	23.3	93	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	120	96	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.5	98	72-117
91-20-3	Naphthalene	25	25.1	100	63-132
103-65-1	n-Propylbenzene	25	26.3	105	82-133
100-42-5	Styrene	25	24.5	98	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.2	105	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	22.4	90	72-120
127-18-4	Tetrachloroethylene	25	26.0	104	76-135
108-88-3	Toluene	25	24.9	100	80-120
87-61-6	1,2,3-Trichlorobenzene	25	27.1	108	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.2	105	73-129
71-55-6	1,1,1-Trichloroethane	25	26.0	104	75-130
79-00-5	1,1,2-Trichloroethane	25	22.8	91	76-119
79-01-6	Trichloroethylene	25	25.1	100	81-126
75-69-4	Trichlorofluoromethane	25	26.9	108	71-156
96-18-4	1,2,3-Trichloropropane	25	23.2	93	77-120
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.7	103	79-120
108-05-4	Vinyl Acetate	125	75.6	60	43-154
75-01-4	Vinyl Chloride	25	25.7	103	69-159
	m,p-Xylene	50	51.2	102	79-126
95-47-6	o-Xylene	25	25.4	102	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI731-BS	I30190.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-BS	N0085636.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	125	100	50-147
107-02-8	Acrolein	125	119	95	31-154
107-13-1	Acrylonitrile	125	145	116	58-126
71-43-2	Benzene	25	28.5	114	81-122
108-86-1	Bromobenzene	25	28.0	112	80-121
74-97-5	Bromochloromethane	25	27.2	109	76-123
75-27-4	Bromodichloromethane	25	29.8	119	79-123
75-25-2	Bromoform	25	27.3	109	66-123
78-93-3	2-Butanone (MEK)	125	122	98	56-143
104-51-8	n-Butylbenzene	25	28.9	116	79-126
135-98-8	sec-Butylbenzene	25	30.3	121	83-133
98-06-6	tert-Butylbenzene	25	29.9	120	80-133
75-15-0	Carbon Disulfide	25	26.2	105	66-148
56-23-5	Carbon Tetrachloride	25	30.2	121	76-136
108-90-7	Chlorobenzene	25	28.6	114	82-124
75-00-3	Chloroethane	25	21.7	87	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	126	101	56-122
67-66-3	Chloroform	25	30.5	122	80-124
95-49-8	o-Chlorotoluene	25	29.2	117	81-127
106-43-4	p-Chlorotoluene	25	28.9	116	83-130
124-48-1	Dibromochloromethane	25	27.3	109	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	28.3	113	64-123
106-93-4	1,2-Dibromoethane	25	26.0	104	75-120
75-71-8	Dichlorodifluoromethane	25	24.9	100	42-167
95-50-1	1,2-Dichlorobenzene	25	28.3	113	82-124
541-73-1	1,3-Dichlorobenzene	25	28.9	116	84-125
106-46-7	1,4-Dichlorobenzene	25	28.7	115	78-120
75-34-3	1,1-Dichloroethane	25	30.4	122	81-122
107-06-2	1,2-Dichloroethane	25	30.1	120	75-125
75-35-4	1,1-Dichloroethylene	25	30.1	120	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.2	109	78-120
156-60-5	trans-1,2-Dichloroethylene	25	34.2	137*	76-127
78-87-5	1,2-Dichloropropane	25	27.9	112	76-124
142-28-9	1,3-Dichloropropane	25	26.4	106	80-118
594-20-7	2,2-Dichloropropane	25	34.4	138	74-139
563-58-6	1,1-Dichloropropene	25	30.5	122	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-BS	N0085636.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	28.1	112	75-118
10061-02-6	trans-1,3-Dichloropropene	25	29.6	118	80-120
100-41-4	Ethylbenzene	25	29.2	117	81-121
87-68-3	Hexachlorobutadiene	25	28.4	114	75-142
591-78-6	2-Hexanone	125	129	103	61-129
98-82-8	Isopropylbenzene	25	29.8	119	83-132
99-87-6	p-Isopropyltoluene	25	28.9	116	79-130
74-83-9	Methyl Bromide	25	24.8	99	59-143
74-87-3	Methyl Chloride	25	24.6	98	50-159
74-95-3	Methylene Bromide	25	29.1	116	78-119
75-09-2	Methylene Chloride	25	29.3	117	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	132	106	66-122
1634-04-4	Methyl Tert Butyl Ether	25	30.1	120*	72-117
91-20-3	Naphthalene	25	30.7	123	63-132
103-65-1	n-Propylbenzene	25	30.5	122	82-133
100-42-5	Styrene	25	27.2	109	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.8	107	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	72-120
127-18-4	Tetrachloroethylene	25	29.3	117	76-135
108-88-3	Toluene	25	28.4	114	80-120
87-61-6	1,2,3-Trichlorobenzene	25	28.9	116	68-131
120-82-1	1,2,4-Trichlorobenzene	25	29.0	116	73-129
71-55-6	1,1,1-Trichloroethane	25	31.0	124	75-130
79-00-5	1,1,2-Trichloroethane	25	26.8	107	76-119
79-01-6	Trichloroethylene	25	28.5	114	81-126
75-69-4	Trichlorofluoromethane	25	27.8	111	71-156
96-18-4	1,2,3-Trichloropropane	25	27.6	110	77-120
95-63-6	1,2,4-Trimethylbenzene	25	28.8	115	79-120
108-67-8	1,3,5-Trimethylbenzene	25	29.5	118	79-120
108-05-4	Vinyl Acetate	125	112	90	43-154
75-01-4	Vinyl Chloride	25	22.5	90	69-159
	m,p-Xylene	50	61.8	124	79-126
95-47-6	o-Xylene	25	28.8	115	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN3809-BS	N0085636.D	1	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI732-BS	I30220.D	1	06/01/15	WV	n/a	n/a	VI732

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	25	25.0	100	72-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	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	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24421-4MS	N0085571.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4MSD	N0085573.D	1	05/28/15	RB	n/a	n/a	VN3805
FA24421-4	N0085566.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4	N0085572.D	2	05/28/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	FA24421-4 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	11.6	J	125	116	84	125	119	86	3	50-147/21
107-02-8	Acrolein	ND		125	99.0	79	125	107	86	8	31-154/29
107-13-1	Acrylonitrile	ND		125	135	108	125	137	110	1	58-126/16
71-43-2	Benzene	0.66	J	25	29.0	113	25	26.9	105	8	81-122/14
108-86-1	Bromobenzene	ND		25	25.8	103	25	23.3	93	10	80-121/14
74-97-5	Bromochloromethane	ND		25	26.9	108	25	26.2	105	3	76-123/14
75-27-4	Bromodichloromethane	ND		25	31.8	127*	25	30.9	124*	3	79-123/19
75-25-2	Bromoform	ND		25	25.9	104	25	24.9	100	4	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	138	110	125	135	108	2	56-143/18
104-51-8	n-Butylbenzene	ND		25	33.1	132*	25	29.9	120	10	79-126/16
135-98-8	sec-Butylbenzene	ND		25	31.1	124	25	28.3	113	9	83-133/16
98-06-6	tert-Butylbenzene	ND		25	32.1	128	25	29.7	119	8	80-133/16
75-15-0	Carbon Disulfide	ND		25	24.2	97	25	21.1	84	14	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	34.9	140*	25	32.7	131	7	76-136/23
108-90-7	Chlorobenzene	ND		25	27.3	109	25	25.1	100	8	82-124/14
75-00-3	Chloroethane	0.90	J	25	25.7	99	25	23.3	90	10	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	16.6		25	48.0	126*	25	45.1	114	6	80-124/15
95-49-8	o-Chlorotoluene	ND		25	30.6	122	25	28.1	112	9	81-127/15
106-43-4	p-Chlorotoluene	ND		25	32.3	129	25	30.0	120	7	83-130/15
124-48-1	Dibromochloromethane	ND		25	28.4	114	25	26.5	106	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	28.5	114	25	28.6	114	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	26.7	107	25	26.1	104	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	33.5	134	25	30.8	123	8	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	27.3	109	25	26.0	104	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	27.8	111	25	26.4	106	5	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	26.9	108	25	25.2	101	7	78-120/15
75-34-3	1,1-Dichloroethane	56.4		25	86.5	120	25	81.0	98	7	81-122/15
107-06-2	1,2-Dichloroethane	0.45	J	25	34.4	136*	25	34.4	136*	0	75-125/14
75-35-4	1,1-Dichloroethylene	5.8		25	40.0	137	25	37.2	126	7	78-137/18
156-59-2	cis-1,2-Dichloroethylene	11.8		25	37.5	103	25	36.4	98	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.4		25	34.2	131*	25	32.6	125	5	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	27.1	108	25	25.6	102	6	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	26.9	108	25	24.9	100	8	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	35.3	141*	25	31.2	125	12	74-139/17
563-58-6	1,1-Dichloropropene	ND		25	33.5	134*	25	30.4	122	10	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24421-4MS	N0085571.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4MSD	N0085573.D	1	05/28/15	RB	n/a	n/a	VN3805
FA24421-4	N0085566.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4	N0085572.D	2	05/28/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Compound	FA24421-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.1	104	25	25.1	100	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	31.1	124*	25	29.5	118	5	80-120/22
100-41-4	Ethylbenzene	ND		25	29.8	119	25	27.5	110	8	81-121/14
87-68-3	Hexachlorobutadiene	ND		25	29.8	119	25	26.3	105	12	75-142/19
591-78-6	2-Hexanone	ND		125	149	119	125	141	113	6	61-129/18
98-82-8	Isopropylbenzene	ND		25	31.7	127	25	28.6	114	10	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	29.9	120	25	27.6	110	8	79-130/16
74-83-9	Methyl Bromide	ND		25	27.6	110	25	25.4	102	8	59-143/19
74-87-3	Methyl Chloride	ND		25	23.5	94	25	21.9	88	7	50-159/19
74-95-3	Methylene Bromide	ND		25	28.4	114	25	28.1	112	1	78-119/14
75-09-2	Methylene Chloride	ND		25	28.4	114	25	28.5	114	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	151	121	125	149	119	1	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	27.6	110	25	28.0	112	1	72-117/14
91-20-3	Naphthalene	ND		25	29.9	120	25	28.6	114	4	63-132/25
103-65-1	n-Propylbenzene	ND		25	30.9	124	25	27.8	111	11	82-133/15
100-42-5	Styrene	ND		25	27.6	110	25	25.4	102	8	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	29.8	119	25	28.1	112	6	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.1	100	25	24.5	98	2	72-120/14
127-18-4	Tetrachloroethylene	ND		25	29.0	116	25	27.4	110	6	76-135/16
108-88-3	Toluene	ND		25	28.0	112	25	25.9	104	8	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.0	108	25	25.8	103	5	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	27.6	110	25	25.4	102	8	73-129/20
71-55-6	1,1,1-Trichloroethane	131 [b]		25	176	180* [a]	25	165	136* [a]	6	75-130/16
79-00-5	1,1,2-Trichloroethane	0.35	J	25	27.2	107	25	25.9	102	5	76-119/14
79-01-6	Trichloroethylene	6.8		25	37.6	123	25	34.5	111	9	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	35.3	141	25	32.6	130	8	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	27.7	111	25	26.8	107	3	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		25	29.2	117	25	27.1	108	7	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	29.8	119	25	27.0	108	10	79-120/19
108-05-4	Vinyl Acetate	ND		125	100	80	125	96.8	77	3	43-154/14
75-01-4	Vinyl Chloride	ND		25	26.1	104	25	23.4	94	11	69-159/18
	m,p-Xylene	ND		50	62.2	124	50	57.6	115	8	79-126/15
95-47-6	o-Xylene	ND		25	34.1	136*	25	31.7	127	7	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24421-4MS	N0085571.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4MSD	N0085573.D	1	05/28/15	RB	n/a	n/a	VN3805
FA24421-4	N0085566.D	1	05/27/15	RB	n/a	n/a	VN3805
FA24421-4	N0085572.D	2	05/28/15	RB	n/a	n/a	VN3805

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-1, FA24537-2, FA24537-4

CAS No.	Surrogate Recoveries	MS	MSD	FA24421-4	FA24421-4	Limits
1868-53-7	Dibromofluoromethane	110%	112%	108%	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	135%*	136%*	129%* [c]	138%* [c]	79-125%
2037-26-5	Toluene-D8	100%	98%	96%	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	106%	102%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24635-5MS	I30213.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5MSD	I30214.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5 [a]	I30207.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	FA24635-5 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	121	97	125	114	91	6	50-147/21
107-02-8	Acrolein	20 U		125	101	81	125	91.2	73	10	31-154/29
107-13-1	Acrylonitrile	10 U		125	95.8	77	125	97.4	78	2	58-126/16
71-43-2	Benzene	1.0 U		25	23.7	95	25	23.9	96	1	81-122/14
108-86-1	Bromobenzene	1.0 U		25	22.5	90	25	23.0	92	2	80-121/14
74-97-5	Bromochloromethane	1.0 U		25	23.9	96	25	23.5	94	2	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	23.8	95	25	24.5	98	3	79-123/19
75-25-2	Bromoform	1.0 U		25	19.1	76	25	20.3	81	6	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		125	123	98	125	123	98	0	56-143/18
104-51-8	n-Butylbenzene	1.0 U		25	25.1	100	25	25.7	103	2	79-126/16
135-98-8	sec-Butylbenzene	1.0 U		25	25.2	101	25	25.6	102	2	83-133/16
98-06-6	tert-Butylbenzene	1.0 U		25	23.8	95	25	24.3	97	2	80-133/16
75-15-0	Carbon Disulfide	2.0 U		25	24.0	96	25	23.9	96	0	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		25	25.2	101	25	25.7	103	2	76-136/23
108-90-7	Chlorobenzene	1.0 U		25	23.5	94	25	23.6	94	0	82-124/14
75-00-3	Chloroethane	2.0 U		25	24.6	98	25	22.9	92	7	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	5.0 U		125	99.8	80	125	104	83	4	56-122/23
67-66-3	Chloroform	1.0 U		25	24.4	98	25	24.0	96	2	80-124/15
95-49-8	o-Chlorotoluene	1.0 U		25	23.7	95	25	24.0	96	1	81-127/15
106-43-4	p-Chlorotoluene	1.0 U		25	23.3	93	25	23.6	94	1	83-130/15
124-48-1	Dibromochloromethane	1.0 U		25	20.7	83	25	20.8	83	0	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	20.9	84	25	21.9	88	5	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		25	22.6	90	25	23.6	94	4	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		25	24.4	98	25	24.1	96	1	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		25	22.6	90	25	23.2	93	3	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		25	23.3	93	25	23.8	95	2	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		25	22.7	91	25	23.4	94	3	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		25	25.2	101	25	24.5	98	3	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U		25	23.5	94	25	23.4	94	0	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.7	111	25	27.3	109	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	7.0		25	30.7	95	25	30.2	93	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.7		25	27.5	103	25	26.5	99	4	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		25	23.1	92	25	23.7	95	3	76-124/14
142-28-9	1,3-Dichloropropane	1.0 U		25	22.5	90	25	23.0	92	2	80-118/13
594-20-7	2,2-Dichloropropane	1.0 U		25	24.1	96	25	24.4	98	1	74-139/17
563-58-6	1,1-Dichloropropene	1.0 U		25	25.3	101	25	25.1	100	1	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24635-5MS	I30213.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5MSD	I30214.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5 [a]	I30207.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Compound	FA24635-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.9	84	25	21.8	87	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	21.0	84	25	21.8	87	4	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	24.3	97	25	24.3	97	0	81-121/14
87-68-3	Hexachlorobutadiene	2.0 U		25	24.9	100	25	25.6	102	3	75-142/19
591-78-6	2-Hexanone	10 U		125	135	108	125	133	106	1	61-129/18
98-82-8	Isopropylbenzene	1.0 U		25	24.6	98	25	24.8	99	1	83-132/15
99-87-6	p-Isopropyltoluene	1.0 U		25	24.8	99	25	24.9	100	0	79-130/16
74-83-9	Methyl Bromide	2.0 U		25	26.2	105	25	24.8	99	5	59-143/19
74-87-3	Methyl Chloride	2.0 U		25	24.5	98	25	23.5	94	4	50-159/19
74-95-3	Methylene Bromide	2.0 U		25	24.2	97	25	24.7	99	2	78-119/14
75-09-2	Methylene Chloride	5.0 U		25	22.8	91	25	22.9	92	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		125	130	104	125	130	104	0	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	23.8	95	25	24.2	97	2	72-117/14
91-20-3	Naphthalene	5.0 U		25	22.3	89	25	24.6	98	10	63-132/25
103-65-1	n-Propylbenzene	1.0 U		25	24.7	99	25	25.1	100	2	82-133/15
100-42-5	Styrene	1.0 U		25	23.5	94	25	23.4	94	0	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	22.8	91	25	23.5	94	3	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	22.6	90	25	23.0	92	2	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		25	24.2	97	25	24.4	98	1	76-135/16
108-88-3	Toluene	1.0 U		25	23.0	92	25	23.4	94	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	23.5	94	25	25.3	101	7	68-131/25
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	23.6	94	25	24.4	98	3	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		25	23.9	96	25	23.9	96	0	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		25	22.6	90	25	23.6	94	4	76-119/14
79-01-6	Trichloroethylene	1.0 U		25	24.2	97	25	24.1	96	0	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		25	27.6	110	25	26.7	107	3	71-156/21
96-18-4	1,2,3-Trichloropropane	2.0 U		25	23.2	93	25	23.4	94	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	23.8	95	25	24.1	96	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	23.5	94	25	24.0	96	2	79-120/19
108-05-4	Vinyl Acetate	10 U		125	54.5	44	125	57.6	46	6	43-154/14
75-01-4	Vinyl Chloride	158	E	25	174	64* [b]	25	171	52* [b]	2	69-159/18
	m,p-Xylene	2.0 U		50	48.2	96	50	48.3	97	0	79-126/15
95-47-6	o-Xylene	1.0 U		25	24.0	96	25	24.0	96	0	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24635-5MS	I30213.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5MSD	I30214.D	1	05/29/15	WV	n/a	n/a	VI731
FA24635-5 [a]	I30207.D	1	05/29/15	WV	n/a	n/a	VI731

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11, FA24537-12, FA24537-13, FA24537-14, FA24537-15, FA24537-16

CAS No.	Surrogate Recoveries	MS	MSD	FA24635-5	Limits
1868-53-7	Dibromofluoromethane	102%	102%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	100%	79-125%
2037-26-5	Toluene-D8	98%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	101%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24569-25MS	N0085659.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25MSD	N0085660.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25	N0085649.D	500	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	FA24569-25 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		62500	49500	79	62500	47500	76	4	50-147/21
107-02-8	Acrolein	ND		62500	70400	113	62500	62700	100	12	31-154/29
107-13-1	Acrylonitrile	ND		62500	48900	78	62500	46600	75	5	58-126/16
71-43-2	Benzene	ND		12500	14800	118	12500	13100	105	12	81-122/14
108-86-1	Bromobenzene	ND		12500	14000	112	12500	12700	102	10	80-121/14
74-97-5	Bromochloromethane	ND		12500	14800	118	12500	13200	106	11	76-123/14
75-27-4	Bromodichloromethane	ND		12500	16600	133*	12500	15100	121	9	79-123/19
75-25-2	Bromoform	ND		12500	14400	115	12500	13500	108	6	66-123/21
78-93-3	2-Butanone (MEK)	ND		62500	66800	107	62500	64500	103	4	56-143/18
104-51-8	n-Butylbenzene	ND		12500	14900	119	12500	13400	107	11	79-126/16
135-98-8	sec-Butylbenzene	ND		12500	15500	124	12500	14000	112	10	83-133/16
98-06-6	tert-Butylbenzene	ND		12500	14900	119	12500	13800	110	8	80-133/16
75-15-0	Carbon Disulfide	ND		12500	12500	100	12500	11100	89	12	66-148/23
56-23-5	Carbon Tetrachloride	ND		12500	17200	138*	12500	15000	120	14	76-136/23
108-90-7	Chlorobenzene	ND		12500	15000	120	12500	13700	110	9	82-124/14
75-00-3	Chloroethane	ND		12500	11300	90	12500	10100	81	11	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		62500	63600	102	62500	57700	92	10	56-122/23
67-66-3	Chloroform	ND		12500	16800	134*	12500	15000	120	11	80-124/15
95-49-8	o-Chlorotoluene	ND		12500	14800	118	12500	13600	109	8	81-127/15
106-43-4	p-Chlorotoluene	ND		12500	14600	117	12500	13400	107	9	83-130/15
124-48-1	Dibromochloromethane	ND		12500	14400	115	12500	13300	106	8	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		12500	13500	108	12500	12400	99	8	64-123/18
106-93-4	1,2-Dibromoethane	ND		12500	13500	108	12500	12500	100	8	75-120/13
75-71-8	Dichlorodifluoromethane	ND		12500	14700	118	12500	13200	106	11	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		12500	14200	114	12500	13300	106	7	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		12500	14900	119	12500	13500	108	10	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		12500	14900	119	12500	13500	108	10	78-120/15
75-34-3	1,1-Dichloroethane	ND		12500	15700	126*	12500	14100	113	11	81-122/15
107-06-2	1,2-Dichloroethane	ND		12500	17900	143*	12500	16000	128*	11	75-125/14
75-35-4	1,1-Dichloroethylene	ND		12500	16400	131	12500	14300	114	14	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		12500	13600	109	12500	11900	95	13	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		12500	14700	118	12500	12600	101	15	76-127/17
78-87-5	1,2-Dichloropropane	ND		12500	14500	116	12500	13000	104	11	76-124/14
142-28-9	1,3-Dichloropropane	ND		12500	13400	107	12500	12500	100	7	80-118/13
594-20-7	2,2-Dichloropropane	ND		12500	18600	149*	12500	16000	128	15	74-139/17
563-58-6	1,1-Dichloropropene	ND		12500	16100	129	12500	14200	114	13	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24569-25MS	N0085659.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25MSD	N0085660.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25	N0085649.D	500	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Compound	FA24569-25 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		12500	14800	118	12500	13600	109	8	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		12500	15500	124*	12500	14500	116	7	80-120/22
100-41-4	Ethylbenzene	ND		12500	15600	125*	12500	13900	111	12	81-121/14
87-68-3	Hexachlorobutadiene	ND		12500	13700	110	12500	12100	97	12	75-142/19
591-78-6	2-Hexanone	ND		62500	66400	106	62500	64600	103	3	61-129/18
98-82-8	Isopropylbenzene	ND		12500	15800	126	12500	14500	116	9	83-132/15
99-87-6	p-Isopropyltoluene	ND		12500	15100	121	12500	13500	108	11	79-130/16
74-83-9	Methyl Bromide	ND		12500	12500	100	12500	11000	88	13	59-143/19
74-87-3	Methyl Chloride	ND		12500	12600	101	12500	11800	94	7	50-159/19
74-95-3	Methylene Bromide	ND		12500	15500	124*	12500	14500	116	7	78-119/14
75-09-2	Methylene Chloride	ND		12500	12600	101	12500	11500	92	9	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		62500	68400	109	62500	67200	108	2	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		12500	12400	99	12500	12100	97	2	72-117/14
91-20-3	Naphthalene	ND		12500	13900	111	12500	13500	108	3	63-132/25
103-65-1	n-Propylbenzene	ND		12500	15500	124	12500	13900	111	11	82-133/15
100-42-5	Styrene	ND		12500	14300	114	12500	13000	104	10	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		12500	14300	114	12500	13500	108	6	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		12500	13200	106	12500	13000	104	2	72-120/14
127-18-4	Tetrachloroethylene	ND		12500	15000	120	12500	13800	110	8	76-135/16
108-88-3	Toluene	ND		12500	14200	114	12500	13100	105	8	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		12500	13900	111	12500	13200	106	5	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		12500	13800	110	12500	12600	101	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		12500	17200	138*	12500	15000	120	14	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		12500	13600	109	12500	12900	103	5	76-119/14
79-01-6	Trichloroethylene	30100		12500	46900	134* [a]	12500	42000	95	11	81-126/15
75-69-4	Trichlorofluoromethane	ND		12500	17100	137	12500	15400	123	10	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		12500	13900	111	12500	13300	106	4	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		12500	14600	117	12500	13600	109	7	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		12500	14800	118	12500	13500	108	9	79-120/19
108-05-4	Vinyl Acetate	ND		62500	42500	68	62500	39300	63	8	43-154/14
75-01-4	Vinyl Chloride	ND		12500	10500	84	12500	10200	82	3	69-159/18
	m,p-Xylene	ND		25000	32800	131*	25000	29700	119	10	79-126/15
95-47-6	o-Xylene	ND		12500	15200	122	12500	14000	112	8	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24569-25MS	N0085659.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25MSD	N0085660.D	500	05/30/15	RB	n/a	n/a	VN3809
FA24569-25	N0085649.D	500	05/29/15	RB	n/a	n/a	VN3809

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-3

CAS No.	Surrogate Recoveries	MS	MSD	FA24569-25	Limits
1868-53-7	Dibromofluoromethane	116%	112%	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	129%*	124%	123%	79-125%
2037-26-5	Toluene-D8	97%	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	94%	95%	101%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24548-8MS	I30243.D	1	06/01/15	WV	n/a	n/a	VI732
FA24548-8MSD	I30244.D	1	06/01/15	WV	n/a	n/a	VI732
FA24548-8	I30232.D	1	06/01/15	WV	n/a	n/a	VI732

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24537-10

CAS No.	Compound	FA24548-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.8	99	25	26.4	106	6	72-117/14

CAS No.	Surrogate Recoveries	MS	MSD	FA24548-8	Limits
1868-53-7	Dibromofluoromethane	105%	104%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	96%	79-125%
2037-26-5	Toluene-D8	97%	96%	102%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	103%	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: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MB	L0682565.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MB	L0682565.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MB	L0682565.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	14-67%
4165-62-2	Phenol-d5	37%	10-50%
118-79-6	2,4,6-Tribromophenol	102%	33-118%
4165-60-0	Nitrobenzene-d5	89%	42-108%
321-60-8	2-Fluorobiphenyl	94%	40-106%
1718-51-0	Terphenyl-d14	103%	39-121%

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-BS	L0682566.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	3.0	3*	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	37.8	76	54-103
95-57-8	2-Chlorophenol	50	39.0	78	52-98
120-83-2	2,4-Dichlorophenol	50	38.7	77	53-103
105-67-9	2,4-Dimethylphenol	50	22.2	44	43-90
51-28-5	2,4-Dinitrophenol	100	74.6	75	44-112
534-52-1	4,6-Dinitro-o-cresol	100	104	104	66-121
95-48-7	2-Methylphenol	50	33.4	67	43-90
	3&4-Methylphenol	100	57.3	57	36-88
88-75-5	2-Nitrophenol	50	40.7	81	53-102
100-02-7	4-Nitrophenol	100	39.7	40	18-62
87-86-5	Pentachlorophenol	100	88.4	88	61-115
108-95-2	Phenol	50	18.3	37	19-56
95-95-4	2,4,5-Trichlorophenol	50	44.3	89	62-109
88-06-2	2,4,6-Trichlorophenol	50	43.3	87	59-107
83-32-9	Acenaphthene	50	44.9	90	61-107
208-96-8	Acenaphthylene	50	41.7	83	60-104
62-53-3	Aniline	50	35.0	70	47-100
120-12-7	Anthracene	50	46.8	94	65-108
92-87-5	Benzidine	50	9.4	19*	25-99
56-55-3	Benzo(a)anthracene	50	47.3	95	66-111
50-32-8	Benzo(a)pyrene	50	48.9	98	62-107
205-99-2	Benzo(b)fluoranthene	50	47.7	95	65-114
191-24-2	Benzo(g,h,i)perylene	50	49.9	100	66-116
207-08-9	Benzo(k)fluoranthene	50	49.1	98	65-114
100-51-6	Benzyl Alcohol	50	36.2	72	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	46.5	93	65-109
85-68-7	Butyl Benzyl Phthalate	50	49.5	99	65-112
86-74-8	Carbazole	50	49.6	99	59-113
106-47-8	4-Chloroaniline	50	31.4	63	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	40.5	81	51-102
111-44-4	bis(2-Chloroethyl)ether	50	41.5	83	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	45.1	90	45-106
91-58-7	2-Chloronaphthalene	50	43.0	86	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	45.2	90	62-105
218-01-9	Chrysene	50	48.2	96	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-BS	L0682566.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	48.6	97	66-119
132-64-9	Dibenzofuran	50	45.7	91	61-106
95-50-1	1,2-Dichlorobenzene	50	40.7	81	48-97
541-73-1	1,3-Dichlorobenzene	50	40.6	81	45-95
106-46-7	1,4-Dichlorobenzene	50	40.5	81	45-98
91-94-1	3,3'-Dichlorobenzidine	50	47.0	94	46-117
84-66-2	Diethyl Phthalate	50	46.7	93	64-108
131-11-3	Dimethyl Phthalate	50	44.6	89	63-106
84-74-2	Di-n-butyl Phthalate	50	47.7	95	65-107
117-84-0	Di-n-octyl Phthalate	50	50.9	102	62-118
121-14-2	2,4-Dinitrotoluene	50	47.1	94	61-110
606-20-2	2,6-Dinitrotoluene	50	45.0	90	63-108
122-66-7	1,2-Diphenylhydrazine	50	44.9	90	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	49.2	98	61-117
206-44-0	Fluoranthene	50	47.2	94	63-106
86-73-7	Fluorene	50	46.2	92	62-108
118-74-1	Hexachlorobenzene	50	45.2	90	63-108
87-68-3	Hexachlorobutadiene	50	37.7	75	42-102
77-47-4	Hexachlorocyclopentadiene	50	33.6	67	39-102
67-72-1	Hexachloroethane	50	40.1	80	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	49.3	99	64-119
78-59-1	Isophorone	50	37.6	75	43-87
90-12-0	1-Methylnaphthalene	50	39.4	79	53-102
91-57-6	2-Methylnaphthalene	50	39.4	79	51-102
91-20-3	Naphthalene	50	35.1	70	47-100
88-74-4	2-Nitroaniline	50	55.4	111	54-128
99-09-2	3-Nitroaniline	50	44.4	89	56-106
100-01-6	4-Nitroaniline	50	47.6	95	55-120
98-95-3	Nitrobenzene	50	38.3	77	50-104
62-75-9	N-Nitrosodimethylamine	50	26.8	54	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	38.6	77	52-104
86-30-6	N-Nitrosodiphenylamine	50	44.1	88	64-108
85-01-8	Phenanthrene	50	47.8	96	66-110
129-00-0	Pyrene	50	47.7	95	64-113
110-86-1	Pyridine	50	24.8	50	23-74
120-82-1	1,2,4-Trichlorobenzene	50	38.7	77	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-BS	L0682566.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	14-67%
4165-62-2	Phenol-d5	35%	10-50%
118-79-6	2,4,6-Tribromophenol	93%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	86%	40-106%
1718-51-0	Terphenyl-d14	102%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MS	L0682568.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
OP56197-MSD	L0682569.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
FA24537-9	L0682567.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	FA24537-9 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	93.8	49	192	97.3	51	4	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	77.6	81	96.2	73.8	77	5	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	75.2	78	96.2	72.3	75	4	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	73.9	77	96.2	70.8	74	4	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	60.9	63	96.2	58.9	61	3	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	179	93	192	172	89	4	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	209	109	192	203	106	3	66-121/23
95-48-7	2-Methylphenol	ND		96.2	72.9	76	96.2	71.1	74	3	43-90/28
	3&4-Methylphenol	ND		192	136	71	192	130	68	5	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	77.0	80	96.2	76.5	80	1	53-102/29
100-02-7	4-Nitrophenol	ND		192	113	59	192	120	62	6	18-62/33
87-86-5	Pentachlorophenol	ND		192	184	96	192	176	92	4	61-115/26
108-95-2	Phenol	ND		96.2	58.3	61*	96.2	62.8	65*	7	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	87.6	91	96.2	84.4	88	4	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	85.2	89	96.2	81.5	85	4	59-107/23
83-32-9	Acenaphthene	ND		96.2	87.4	91	96.2	84.2	88	4	61-107/22
208-96-8	Acenaphthylene	ND		96.2	76.7	80	96.2	72.4	75	6	60-104/22
62-53-3	Aniline	ND		96.2	58.2	61	96.2	55.8	58	4	47-100/30
120-12-7	Anthracene	ND		96.2	94.2	98	96.2	88.3	92	6	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	91.2	95	96.2	89.7	93	2	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	91.2	95	96.2	88.2	92	3	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	92.2	96	96.2	89.7	93	3	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	93.9	98	96.2	92.7	96	1	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	92.9	97	96.2	89.8	93	3	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	72.1	75	96.2	70.8	74	2	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	91.2	95	96.2	87.1	91	5	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	91.4	95	96.2	88.6	92	3	65-112/24
86-74-8	Carbazole	ND		96.2	93.0	97	96.2	87.1	91	7	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	46.5	48*	96.2	44.8	47*	4	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	70.6	73	96.2	68.7	71	3	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	77.0	80	96.2	73.9	77	4	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	80.5	84	96.2	75.5	79	6	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	81.0	84	96.2	77.6	81	4	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	90.8	94	96.2	86.0	89	5	62-105/20
218-01-9	Chrysene	ND		96.2	91.1	95	96.2	88.3	92	3	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	93.7	97	96.2	92.1	96	2	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MS	L0682568.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
OP56197-MSD	L0682569.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
FA24537-9	L0682567.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	FA24537-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		96.2	86.0	89	96.2	80.7	84	6	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	77.7	81	96.2	72.2	75	7	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	76.9	80	96.2	72.8	76	5	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	76.7	80	96.2	72.9	76	5	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	24.5	25*	96.2	19.5	20*	23	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	88.5	92	96.2	85.4	89	4	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	87.0	90	96.2	82.4	86	5	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	91.0	95	96.2	87.2	91	4	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	97.4	101	96.2	95.3	99	2	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	91.4	95	96.2	87.0	90	5	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	87.4	91	96.2	83.9	87	4	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	90.2	94	96.2	85.4	89	5	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	92.9	97	96.2	90.7	94	2	61-117/23
206-44-0	Fluoranthene	ND		96.2	87.1	91	96.2	82.9	86	5	63-106/21
86-73-7	Fluorene	ND		96.2	90.6	94	96.2	86.2	90	5	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	88.4	92	96.2	84.2	88	5	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	71.7	75	96.2	69.8	73	3	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	69.8	73	96.2	66.6	69	5	39-102/29
67-72-1	Hexachloroethane	ND		96.2	74.5	77	96.2	71.2	74	5	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	97.4	101	96.2	95.1	99	2	64-119/24
78-59-1	Isophorone	ND		96.2	71.5	74	96.2	69.1	72	3	43-87/25
90-12-0	1-Methylnaphthalene	ND		96.2	73.7	77	96.2	70.9	74	4	53-102/27
91-57-6	2-Methylnaphthalene	ND		96.2	71.3	74	96.2	68.8	72	4	51-102/26
91-20-3	Naphthalene	ND		96.2	65.7	68	96.2	65.1	68	1	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	105	109	96.2	100	104	5	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	68.0	71	96.2	67.3	70	1	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	80.7	84	96.2	78.0	81	3	55-120/24
98-95-3	Nitrobenzene	ND		96.2	70.6	73	96.2	71.6	74	1	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	60.0	62	96.2	60.7	63	1	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	71.3	74	96.2	68.0	71	5	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	89.2	93	96.2	85.6	89	4	64-108/23
85-01-8	Phenanthrene	ND		96.2	94.8	99	96.2	89.9	93	5	66-110/21
129-00-0	Pyrene	ND		96.2	88.7	92	96.2	85.9	89	3	64-113/23
110-86-1	Pyridine	ND		96.2	47.1	49	96.2	46.6	48	1	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	71.1	74	96.2	69.1	72	3	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56197-MS	L0682568.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
OP56197-MSD	L0682569.D	1	05/29/15	MV	05/24/15	OP56197	SL3664
FA24537-9	L0682567.D	1	05/29/15	MV	05/24/15	OP56197	SL3664

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Surrogate Recoveries	MS	MSD	FA24537-9	Limits
367-12-4	2-Fluorophenol	58%	63%	39%	14-67%
4165-62-2	Phenol-d5	59%* [a]	64%* [a]	38%	10-50%
118-79-6	2,4,6-Tribromophenol	96%	91%	107%	33-118%
4165-60-0	Nitrobenzene-d5	72%	72%	80%	42-108%
321-60-8	2-Fluorobiphenyl	80%	77%	81%	40-106%
1718-51-0	Terphenyl-d14	96%	96%	66%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5504-MB	CD133714.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

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

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	81%	70-131%
98-08-8	aaa-Trifluorotoluene	83%	69-143%

Method Blank Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5506-MB	CD133758.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-5

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	82%	70-131%
98-08-8	aaa-Trifluorotoluene	82%	69-143%

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5504-BS	CD133713.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.351	88	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	87%	70-131%
98-08-8	aaa-Trifluorotoluene	92%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5506-BS	CD133757.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.360	90	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	70-131%
98-08-8	aaa-Trifluorotoluene	97%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24506-1MS	CD133721.D	1	05/22/15	EG	n/a	n/a	GCD5504
FA24506-1MSD	CD133722.D	1	05/22/15	EG	n/a	n/a	GCD5504
FA24506-1	CD133715.D	1	05/22/15	EG	n/a	n/a	GCD5504

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	FA24506-1 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)	0.0741	J	0.4	0.436	90	0.4	0.425	88	3	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA24506-1	Limits
460-00-4	4-Bromofluorobenzene	94%	91%	90%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	95%	86%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24549-9MS	CD133765.D	1	05/27/15	EG	n/a	n/a	GCD5506
FA24549-9MSD	CD133766.D	1	05/27/15	EG	n/a	n/a	GCD5506
FA24549-9	CD133760.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-5

CAS No.	Compound	FA24549-9 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)	ND		0.4	0.375	94	0.4	0.370	93	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA24549-9	Limits
460-00-4	4-Bromofluorobenzene	86%	86%	79%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	93%	81%	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: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56196-MB	WW3912.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	50-131%

Blank Spike Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56196-BS	WW3911.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	4	2.66	67	56-123
	TPH (> C22-C36)	4	2.70	68	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	82%	50-131%

8.2.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24537
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56196-MS	WW3916.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
OP56196-MSD	WW3917.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175
FA24537-5	WW3915.D	1	06/01/15	SJL	05/23/15	OP56196	GWW175

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11

CAS No.	Compound	FA24537-5 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	0.426		8.33	5.83	65	8.33	5.62	62	4	56-123/33
	TPH (> C22-C36)	0.307		8.33	5.80	66	8.33	5.67	64	2	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA24537-5	Limits
84-15-1	o-Terphenyl	78%	75%	75%	50-131%

* = 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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/22/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17	-7.2	<300
Lead	5.0	1	1.1		
Magnesium	5000	35	35		
Manganese	15	.5	1	0.0	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:	05/22/15				05/22/15				
Metal	FA24405-3 Original	DUP	RPD	QC Limits	FA24405-3 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper									
Iron	6560	6760	3.0	0-20	6560	35200	26000	110.2	80-120
Lead	anr								
Magnesium	anr								
Manganese	108	108	0.0	0-20	108	685	500	115.4	80-120
Molybdenum									
Nickel									
Potassium	anr								
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/22/15

Metal	FA24405-3 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						
Copper						
Iron	6560	34500	26000	107.5	2.0	20
Lead	anr					
Magnesium	anr					
Manganese	108	672	500	112.8	1.9	20
Molybdenum						
Nickel						
Potassium	anr					
Selenium	anr					
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/22/15

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				
Copper				
Iron	28800	26000	110.8	80-120
Lead	anr			
Magnesium	anr			
Manganese	572	500	114.4	80-120
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/22/15

Metal	FA24405-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	6560	6300	3.8	0-10
Lead	anr			
Magnesium	anr			
Manganese	108	105	3.0	0-10
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28960
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/22/15

Metal	Sample ml	Final ml	FA24405-3 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	6555	6423.9	9674	0.2	150	3000	108.3	80-120
Lead										
Magnesium										
Manganese	9.8	10	108.2	106.036	164.2	0.2	2.5	50	116.3	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28960: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9

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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					05/27/15		05/27/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	14	14				
Antimony	6.0	1	1				
Arsenic	10	1.3	1.3				
Barium	200	1	1				
Beryllium	4.0	.2	.2				
Cadmium	5.0	.2	.2				
Calcium	1000	50	50				
Chromium	10	1	1				
Cobalt	50	.2	.2				
Copper	25	1	1				
Iron	300	17	17	2.7	<300	3.0	<300
Lead	5.0	1	1.1				
Magnesium	5000	35	35				
Manganese	15	.5	1	0.0	<15	0.30	<15
Molybdenum	50	.3	.3				
Nickel	40	.4	.4				
Potassium	10000	200	200				
Selenium	10	2.4	2.9				
Silver	10	.7	.7				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.1	1.4				
Tin	50	.9	1				
Titanium	10	.5	1				
Vanadium	50	.5	.6				
Zinc	20	3	4.4				

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

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: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15 05/27/15

Metal	FA24537-10 Original	DUP	RPD	QC Limits	FA24537-10 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	987	969	1.8	0-20	987	28900	26000	107.4	80-120
Lead									
Magnesium									
Manganese	8160	8230	0.9	0-20	8160	8460	500	60.0 (a)	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24537-10 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	987	28800	26000	107.0	0.3	20
Lead						
Magnesium						
Manganese	8160	8390	500	46.0 (a)	0.8	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	28800	26000	110.8	80-120
Lead				
Magnesium				
Manganese	558	500	111.6	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24537-10 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	987	904	8.4	0-10
Lead				
Magnesium				
Manganese	8160	7970	2.3	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28972
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	Sample ml	Final ml	FA24537-10 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	986.9	967.162	4117	0.2	150	3000	105.0	80-120
Lead										
Magnesium										
Manganese	9.8	10	8156	7992.88	7978	0.2	2.5	50	-29.8*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28972: FA24537-10, FA24537-11, FA24537-1F, FA24537-2F, FA24537-5F, FA24537-6F, FA24537-7F, FA24537-8F, FA24537-9F, FA24537-10F, FA24537-11F

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: FA24537
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	GP26034/GN66454	2.0	0.0	mg/l	200	216	109.0	85-115%
Chemical Oxygen Demand	GP26062/GN66485	20	0.0	mg/l	50.0	52.1	104.1	87-122%
Chloride	GP26114/GN66602	2.0	0.0	mg/l	50	53.1	106.2	90-110%
Chloride	GP26117/GN66614	2.0	0.0	mg/l	50	51.8	103.6	90-110%
Fluoride	GP26114/GN66602	0.20	0.0	mg/l	2.5	2.60	104.0	90-110%
Iron, Ferrous	GN66408	0.10	0.0	mg/l	0.500	0.54	108.8	82-115%
Nitrogen, Ammonia	GP26080/GN66529	0.10	0.0	mg/l	2.5	2.55	102.0	90-110%
Nitrogen, Nitrate	GP26058/GN66476	0.10	0.0	mg/l	2.5	2.5	99.3	90-110%
Nitrogen, Nitrate	GP26114/GN66602	0.10	0.0	mg/l	2.5	2.56	102.4	90-110%
Nitrogen, Nitrite	GP26114/GN66602	0.10	0.0	mg/l	2.5	2.67	106.8	90-110%
Nitrogen, Total Kjeldahl	GP26061/GN66493	0.53	0.0	mg/l	2.63	2.67	101.7	90-110%
Solids, Total Dissolved	GN66470	100	0.0	mg/l				
Sulfate	GP26114/GN66602	2.0	0.0	mg/l	50	53.7	107.4	90-110%
Sulfate	GP26117/GN66614	2.0	0.0	mg/l	50	52.9	105.8	90-110%

Associated Samples:
Batch GN66408: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GN66470: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26034: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26058: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26061: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26062: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26080: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26114: FA24537-1, FA24537-2
Batch GP26117: FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24537
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP26034/GN66454	FA24535-1	mg/l	4.0 U	0.0	104.0(a)	0-30%
Iron, Ferrous	GN66408	FA24537-1	mg/l	0.53	0.54	1.9	0-31%
Solids, Total Dissolved	GN66470	FA24537-8	mg/l	4780	4930	3.1	0-5%

Associated Samples:
Batch GN66408: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GN66470: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26034: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24537
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	GP26062/GN66485	FA24537-1	mg/l	21.3	50.0	71.0	99.4	87-122%
Chloride	GP26114/GN66606	FA24536-2	mg/l	0.80 U	50	50.0	100.0	90-110%
Chloride	GP26117/GN66626	FA24695-2	mg/l	1410	50	1310	-200.0(a)	90-110%
Fluoride	GP26114/GN66606	FA24536-2	mg/l	0.060 U	2.5	2.4	96.0	90-110%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-2	mg/l	0.030 U	2.5	2.6	104.0	90-110%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-5	mg/l	0.52	2.5	3.0	99.2	90-110%
Nitrogen, Nitrate	GP26058/GN66476	FA24536-7	mg/l	1.0	2.5	3.6	105.0	90-110%
Nitrogen, Nitrate	GP26114/GN66606	FA24536-2	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP26114/GN66606	FA24536-2	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Total Kjeldahl	GP26061/GN66493	FA24506-1	mg/l	2.4	2.63	5.2	106.7	90-110%
Sulfate	GP26114/GN66606	FA24536-2	mg/l	0.60 U	50	49.5	99.0	90-110%
Sulfate	GP26117/GN66626	FA24695-2	mg/l	15 U	50	43.8	87.6N(b)	90-110%

Associated Samples:
Batch GP26058: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26061: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26062: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26080: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26114: FA24537-1, FA24537-2
Batch GP26117: FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
(*) 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: FA24537
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	GP26062/GN66485	FA24537-1	mg/l	21.3	50.0	73.4	3.3	26%
Chloride	GP26114/GN66606	FA24536-2	mg/l	0.80 U	50	50.0	0.0	20%
Chloride	GP26117/GN66626	FA24695-2	mg/l	1410	50	1340	2.3	20%
Fluoride	GP26114/GN66606	FA24536-2	mg/l	0.060 U	2.5	2.4	0.0	20%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-2	mg/l	0.030 U	2.5	2.6	0.0	20%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-5	mg/l	0.52	2.5	3.0	0.0	20%
Nitrogen, Nitrate	GP26058/GN66476	FA24536-7	mg/l	1.0	2.5	3.6	0.6	20%
Nitrogen, Nitrate	GP26114/GN66606	FA24536-2	mg/l	0.050 U	2.5	2.3	0.0	20%
Nitrogen, Nitrite	GP26114/GN66606	FA24536-2	mg/l	0.050 U	2.5	2.4	0.0	20%
Nitrogen, Total Kjeldahl	GP26061/GN66493	FA24506-1	mg/l	2.4	2.63	4.8	8.0	20%
Sulfate	GP26114/GN66606	FA24536-2	mg/l	0.60 U	50	49.5	0.0	20%
Sulfate	GP26117/GN66626	FA24695-2	mg/l	15 U	50	44.7	2.0	20%

Associated Samples:
Batch GP26058: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26061: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26062: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26080: FA24537-1, FA24537-2, FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
Batch GP26114: FA24537-1, FA24537-2
Batch GP26117: FA24537-5, FA24537-6, FA24537-7, FA24537-8, FA24537-9, FA24537-10, FA24537-11
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/12/15

Technical Report for

Nation View

Holloman AFB; SS17

11.0019

Accutest Job Number: FA24564

Sampling Dates: 05/20/15 - 05/21/15

Report to:

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Total number of pages in report: **330**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

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.

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 (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest Laboratories

Sample Summary

Nation View

Job No: FA24564

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24564-1	05/20/15	07:30	KFSH	05/22/15	AQ	Ground Water	SS17-MW03
FA24564-1F	05/20/15	07:30	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW03
FA24564-2	05/20/15	08:00	KFSH	05/22/15	AQ	Ground Water	SS17-MW05
FA24564-2F	05/20/15	08:00	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW05
FA24564-3	05/20/15	08:00	KFSH	05/22/15	AQ	Ground Water	SS17-MW05A
FA24564-3F	05/20/15	08:00	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW05A
FA24564-4	05/20/15	09:10	KFSH	05/22/15	AQ	Ground Water	SS17-MW21
FA24564-4F	05/20/15	09:10	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW21
FA24564-5	05/20/15	11:30	KFSH	05/22/15	AQ	Ground Water	SS17-MW06
FA24564-5F	05/20/15	11:30	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW06
FA24564-6	05/20/15	11:45	KFSH	05/22/15	AQ	Ground Water	SS17-MW08
FA24564-6F	05/20/15	11:45	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW08
FA24564-7	05/20/15	12:45	KFSH	05/22/15	AQ	Ground Water	SS17-MWBX01

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Nation View

Job No: FA24564

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24564-7F	05/20/15	12:45	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MWBX01
FA24564-8	05/20/15	13:20	KFSH	05/22/15	AQ	Ground Water	SS17-MW20
FA24564-8F	05/20/15	13:20	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW20
FA24564-9	05/21/15	10:00	KFSH	05/22/15	AQ	Ground Water	SS17-MW18
FA24564-9F	05/21/15	10:00	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW18
FA24564-10	05/21/15	11:15	KFSH	05/22/15	AQ	Ground Water	SS17-MW04
FA24564-10F	05/21/15	11:15	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW04
FA24564-11	05/21/15	11:20	KFSH	05/22/15	AQ	Ground Water	SS17-MW19
FA24564-11F	05/21/15	11:20	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW19
FA24564-12	05/21/15	12:40	KFSH	05/22/15	AQ	Ground Water	SS17-MW16
FA24564-12F	05/21/15	12:40	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW16
FA24564-13	05/21/15	12:50	KFSH	05/22/15	AQ	Ground Water	SS17-MW14
FA24564-13F	05/21/15	12:50	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Nation View

Job No: FA24564

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24564-14	05/20/15	09:40	KFSH	05/22/15	AQ	Ground Water	SS17-MW07
FA24564-14F	05/20/15	09:40	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW07
FA24564-15	05/20/15	09:40	KFSH	05/22/15	AQ	Ground Water	SS17-MW07A
FA24564-15F	05/20/15	09:40	KFSH	05/22/15	AQ	Groundwater Filtered	SS17-MW07A
FA24564-16	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 1
FA24564-17	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 2
FA24564-18	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 3
FA24564-19	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 4
FA24564-20	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 5
FA24564-21	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 6
FA24564-22	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 7
FA24564-23	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 8
FA24564-24	05/21/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 9

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Nation View

Job No: FA24564

Holloman AFB; SS17
Project No: 11.0019

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24564-25	05/21/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 10
FA24564-26	05/21/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 11
FA24564-27	05/21/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 12
FA24564-28	05/21/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 13
FA24564-29	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 14
FA24564-30	05/20/15	00:00	KFSH	05/22/15	AQ	Trip Blank Water	TRIP BLANK 15
FA24564-31	05/20/15	00:00	KFSH	05/22/15	SO	Trip Blank Soil	TRIP BLANK SOIL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-1	**SS17-MW03**					
Benzene		1370	20	4.0	ug/l	SW846 8260B
Ethylbenzene		126	20	4.0	ug/l	SW846 8260B
Isopropylbenzene		5.5 J	20	4.0	ug/l	SW846 8260B
n-Propylbenzene		30.7	20	4.0	ug/l	SW846 8260B
Toluene		25.8	20	8.0	ug/l	SW846 8260B
m,p-Xylene		13.7 J	40	6.3	ug/l	SW846 8260B
Acenaphthene		1.7 J	4.7	0.47	ug/l	SW846 8270D
Fluoranthene		1.7 J	4.7	0.47	ug/l	SW846 8270D
1-Methylnaphthalene		2.2 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene		4.7	4.7	0.47	ug/l	SW846 8270D
Pyrene		0.70 J	4.7	0.52	ug/l	SW846 8270D
TPH-GRO (C6-C10)		3.53	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)		1.02	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)		0.163 J	0.20	0.080	mg/l	SW846 8015C
Iron		588	300	17	ug/l	SW846 6010C
Manganese		483	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		19.7	8.0	8.0	mg/l	SM5210 B-11
Chemical Oxygen Demand		35.7	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		11.4	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]		0.71	0.20	0.062	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.19	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		3490	200	20	mg/l	SM2540 C-11
Sulfate		1680	50	15	mg/l	EPA 300/SW846 9056A
FA24564-1F	**SS17-MW03**					
Manganese		476	15	1.0	ug/l	SW846 6010C
FA24564-2	**SS17-MW05**					
n-Butylbenzene		9.1 J	20	4.5	ug/l	SW846 8260B
sec-Butylbenzene		8.9 J	20	4.0	ug/l	SW846 8260B
Carbon Disulfide [b]		8.9 J	40	5.9	ug/l	SW846 8260B
Ethylbenzene		2330	100	20	ug/l	SW846 8260B
Isopropylbenzene		68.9	20	4.0	ug/l	SW846 8260B
Naphthalene		149	100	20	ug/l	SW846 8260B
n-Propylbenzene		198	20	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		101	40	4.0	ug/l	SW846 8260B
m,p-Xylene		342	40	6.3	ug/l	SW846 8260B
Acenaphthene		0.96 J	4.7	0.47	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		2.4 J	4.7	0.94	ug/l	SW846 8270D
Fluorene		0.65 J	4.7	0.47	ug/l	SW846 8270D

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1-Methylnaphthalene	28.5	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	8.2	4.7	0.47	ug/l	SW846 8270D
Naphthalene	77.4	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)	5.44	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)	1.28	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)	0.138 J	0.19	0.077	mg/l	SW846 8015C
Iron	37.1 J	300	17	ug/l	SW846 6010C
Manganese	200	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	58.0	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand	83.3	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	25.1	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]	0.14	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.36	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	3260	200	20	mg/l	SM2540 C-11
Sulfate	1910	50	15	mg/l	EPA 300/SW846 9056A
FA24564-2F SS17-MW05					
Manganese	229	15	1.0	ug/l	SW846 6010C
FA24564-3 SS17-MW05A					
n-Butylbenzene	9.4 J	20	4.5	ug/l	SW846 8260B
sec-Butylbenzene	9.4 J	20	4.0	ug/l	SW846 8260B
Carbon Disulfide [b]	12.0 J	40	5.9	ug/l	SW846 8260B
Ethylbenzene	2400	100	20	ug/l	SW846 8260B
Isopropylbenzene	69.8	20	4.0	ug/l	SW846 8260B
Naphthalene	179	100	20	ug/l	SW846 8260B
n-Propylbenzene	195	20	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	97.3	40	4.0	ug/l	SW846 8260B
m,p-Xylene	347	40	6.3	ug/l	SW846 8260B
Acenaphthene	1.1 J	4.7	0.47	ug/l	SW846 8270D
Dibenzofuran	0.81 J	4.7	0.47	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate	2.3 J	4.7	0.94	ug/l	SW846 8270D
Fluorene	0.76 J	4.7	0.47	ug/l	SW846 8270D
1-Methylnaphthalene	30.7	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	10.4	4.7	0.47	ug/l	SW846 8270D
Naphthalene	119	19	1.9	ug/l	SW846 8270D
Phenanthrene	0.49 J	4.7	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)	5.47	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C22)	1.34	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)	0.124 J	0.19	0.077	mg/l	SW846 8015C
Iron	23.9 J	300	17	ug/l	SW846 6010C
Manganese	239	15	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
BOD, 5 Day	56.1	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand	76.2	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	38.7	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]	0.21	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	1.4	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	3420	200	20	mg/l	SM2540 C-11
Sulfate	1900	50	15	mg/l	EPA 300/SW846 9056A
FA24564-3F SS17-MW05A					
Manganese	246	15	1.0	ug/l	SW846 6010C
FA24564-4 SS17-MW21					
Acetone	3000	1300	500	ug/l	SW846 8260B
Benzene	57000	1000	200	ug/l	SW846 8260B
2-Butanone (MEK)	1420	250	58	ug/l	SW846 8260B
n-Butylbenzene	17.5 J	50	11	ug/l	SW846 8260B
sec-Butylbenzene	11.2 J	50	10	ug/l	SW846 8260B
1,2-Dichloroethane	49.2 J	50	10	ug/l	SW846 8260B
Ethylbenzene	4670	1000	200	ug/l	SW846 8260B
Isopropylbenzene	95.3	50	10	ug/l	SW846 8260B
p-Isopropyltoluene	15.7 J	50	10	ug/l	SW846 8260B
Naphthalene	408	250	50	ug/l	SW846 8260B
n-Propylbenzene	320	50	10	ug/l	SW846 8260B
Toluene	50400	1000	400	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	1990	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	506	100	11	ug/l	SW846 8260B
m,p-Xylene	11800	2000	310	ug/l	SW846 8260B
o-Xylene	5310	1000	200	ug/l	SW846 8260B
2,4-Dimethylphenol	343	94	9.4	ug/l	SW846 8270D
2-Methylphenol	969	94	9.4	ug/l	SW846 8270D
3&4-Methylphenol	909	94	19	ug/l	SW846 8270D
Phenol	807	94	9.4	ug/l	SW846 8270D
1-Methylnaphthalene	44.5 J	94	9.4	ug/l	SW846 8270D
2-Methylnaphthalene	75.1 J	94	9.5	ug/l	SW846 8270D
Naphthalene	393	94	9.4	ug/l	SW846 8270D
TPH-GRO (C6-C10)	206	50	25	mg/l	SW846 8015C
TPH (C10-C22)	17.6	0.96	0.38	mg/l	SW846 8015C
TPH (> C22-C36)	0.925 J	0.96	0.38	mg/l	SW846 8015C
Iron	62.1 J	300	17	ug/l	SW846 6010C
Manganese	15.8	15	1.0	ug/l	SW846 6010C
BOD, 5 Day	152	40	40	mg/l	SM5210 B-11
Chemical Oxygen Demand	1200	20	5.3	mg/l	SM5220 C-11

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Hydrogen Sulfide	242	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]	0.062 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia	1.6	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	7.8	1.1	0.34	mg/l	EPA 351.2
Solids, Total Dissolved	4400	500	50	mg/l	SM2540 C-11
Sulfate	1730	50	15	mg/l	EPA 300/SW846 9056A
FA24564-4F SS17-MW21					
Manganese	17.8	15	1.0	ug/l	SW846 6010C
FA24564-5 SS17-MW06					
Benzene	281	5.0	1.0	ug/l	SW846 8260B
Carbon Disulfide [b]	2.8 J	10	1.5	ug/l	SW846 8260B
Ethylbenzene	78.3	5.0	1.0	ug/l	SW846 8260B
Isopropylbenzene	2.3 J	5.0	1.0	ug/l	SW846 8260B
Methyl Tert Butyl Ether	3.8 J	5.0	1.5	ug/l	SW846 8260B
Naphthalene	6.5 J	25	5.0	ug/l	SW846 8260B
n-Propylbenzene	7.0	5.0	1.0	ug/l	SW846 8260B
Toluene	493	10	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	37.1	10	1.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	9.4 J	10	1.1	ug/l	SW846 8260B
m,p-Xylene	207	10	1.6	ug/l	SW846 8260B
o-Xylene	89.0	5.0	1.0	ug/l	SW846 8260B
2,4-Dimethylphenol	0.53 J	4.7	0.47	ug/l	SW846 8270D
3&4-Methylphenol	1.0 J	4.7	0.94	ug/l	SW846 8270D
1-Methylnaphthalene	0.83 J	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	1.3 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene	5.7	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)	2.34	1.0	0.50	mg/l	SW846 8015C
TPH (C10-C22)	1.79	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)	0.428	0.19	0.077	mg/l	SW846 8015C
Iron	5180	300	17	ug/l	SW846 6010C
Manganese	1890	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	26.2	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	7.6	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]	2.8	0.80	0.17	mg/l	SM3500FE B-11
Iron, Ferrous [a]	2.4	0.50	0.16	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.45	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl	1.9	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	5640	500	50	mg/l	SM2540 C-11
Sulfate	3160	100	30	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-5F	**SS17-MW06**					
Manganese		1840	15	1.0	ug/l	SW846 6010C
FA24564-6	**SS17-MW08**					
n-Butylbenzene		11.4 J	50	11	ug/l	SW846 8260B
sec-Butylbenzene		10.9 J	50	10	ug/l	SW846 8260B
Carbon Disulfide [b]		35.7 J	100	15	ug/l	SW846 8260B
Ethylbenzene		4580	100	20	ug/l	SW846 8260B
Isopropylbenzene		90.4	50	10	ug/l	SW846 8260B
Naphthalene		317	250	50	ug/l	SW846 8260B
n-Propylbenzene		286	50	10	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		799	100	10	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		176	100	11	ug/l	SW846 8260B
m,p-Xylene		4720	100	16	ug/l	SW846 8260B
o-Xylene		16.5 J	50	10	ug/l	SW846 8260B
1-Methylnaphthalene [d]		47.2	9.4	0.94	ug/l	SW846 8270D
2-Methylnaphthalene [d]		17.7	9.4	0.95	ug/l	SW846 8270D
Naphthalene		216	47	4.7	ug/l	SW846 8270D
TPH-GRO (C6-C10)		20.7	5.0	2.5	mg/l	SW846 8015C
TPH (C10-C22)		1.00	0.20	0.080	mg/l	SW846 8015C
Iron		96.9 J	300	17	ug/l	SW846 6010C
Manganese		50.8	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		33.2	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand		52.4	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		27.3	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]		0.19	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.18	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		2410	200	20	mg/l	SM2540 C-11
Sulfate		1530	50	15	mg/l	EPA 300/SW846 9056A
FA24564-6F	**SS17-MW08**					
Manganese		53.7	15	1.0	ug/l	SW846 6010C
FA24564-7	**SS17-MWBX01**					
Benzene		185	5.0	1.0	ug/l	SW846 8260B
Carbon Disulfide [b]		3.2 J	10	1.5	ug/l	SW846 8260B
Ethylbenzene		85.1	5.0	1.0	ug/l	SW846 8260B
Isopropylbenzene		2.3 J	5.0	1.0	ug/l	SW846 8260B
Naphthalene		10.1 J	25	5.0	ug/l	SW846 8260B
n-Propylbenzene		8.3	5.0	1.0	ug/l	SW846 8260B

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Toluene	473	5.0	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	45.5	10	1.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	12.4	10	1.1	ug/l	SW846 8260B
m,p-Xylene	227	10	1.6	ug/l	SW846 8260B
o-Xylene	100	5.0	1.0	ug/l	SW846 8260B
1-Methylnaphthalene	0.80 J	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene	1.3 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene	4.8	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)	1.76	0.50	0.25	mg/l	SW846 8015C
TPH (C10-C22)	0.225	0.20	0.080	mg/l	SW846 8015C
TPH (> C22-C36)	0.0999 J	0.20	0.080	mg/l	SW846 8015C
Iron	146 J	300	17	ug/l	SW846 6010C
Manganese	1170	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	19.1 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [c]	0.15 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.033 J	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate	2.6	2.5	1.3	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.1	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	4390	500	50	mg/l	SM2540 C-11
Sulfate	2400	50	15	mg/l	EPA 300/SW846 9056A
FA24564-7F SS17-MWBX01					
Manganese	988	15	1.0	ug/l	SW846 6010C
FA24564-8 SS17-MW20					
Carbon Disulfide [b]	0.46 J	2.0	0.29	ug/l	SW846 8260B
1,2-Dichloroethane	0.46 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene	9.7	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene	0.27 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene	1.2	1.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	2.3	2.0	0.20	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	0.54 J	2.0	0.22	ug/l	SW846 8260B
m,p-Xylene	9.0	2.0	0.31	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.0665 J	0.10	0.050	mg/l	SW846 8015C
TPH (> C22-C36)	0.108 J	0.19	0.077	mg/l	SW846 8015C
Manganese	978	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	19.1 J	20	5.3	mg/l	SM5220 C-11
Nitrogen, Ammonia	0.20	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate	11.2	5.0	2.5	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.7	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	9760	500	50	mg/l	SM2540 C-11
Sulfate	4810	100	30	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-8F	**SS17-MW20**					
Manganese		999	15	1.0	ug/l	SW846 6010C
FA24564-9	**SS17-MW18**					
1,2-Dichloroethane		2.6	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		1.0	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		0.82 J	2.0	0.31	ug/l	SW846 8260B
TPH (> C22-C36)		0.0956 J	0.19	0.077	mg/l	SW846 8015C
Iron		43.4 J	300	17	ug/l	SW846 6010C
Manganese		5520	15	1.0	ug/l	SW846 6010C
Iron, Ferrous [a]		0.062 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Total Kjeldahl		0.98	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		6060	500	50	mg/l	SM2540 C-11
Sulfate		3440	100	30	mg/l	EPA 300/SW846 9056A
FA24564-9F	**SS17-MW18**					
Manganese		4950	15	1.0	ug/l	SW846 6010C
FA24564-10	**SS17-MW04**					
Benzene		124	10	2.0	ug/l	SW846 8260B
Ethylbenzene		94.8	10	2.0	ug/l	SW846 8260B
n-Propylbenzene		6.8 J	10	2.0	ug/l	SW846 8260B
Toluene		530	10	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		44.4	20	2.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		12.9 J	20	2.2	ug/l	SW846 8260B
m,p-Xylene		272	20	3.1	ug/l	SW846 8260B
o-Xylene		107	10	2.0	ug/l	SW846 8260B
2-Methylphenol		0.51 J	4.7	0.47	ug/l	SW846 8270D
Benzyl Alcohol		0.90 J	4.7	0.80	ug/l	SW846 8270D
1-Methylnaphthalene		0.68 J	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene		0.79 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene		2.9 J	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)		2.10	1.0	0.50	mg/l	SW846 8015C
Iron		67.8 J	300	17	ug/l	SW846 6010C
Manganese		6.8 J	15	1.0	ug/l	SW846 6010C
Iron, Ferric [c]		0.068 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		4.1	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		0.45 J	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		2450	200	20	mg/l	SM2540 C-11
Sulfate		1530	50	15	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-10F	**SS17-MW04**					
Manganese		6.7 J	15	1.0	ug/l	SW846 6010C
FA24564-11	**SS17-MW19**					
1,2-Dichloroethane		0.51 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		0.71 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.6	1.0	0.30	ug/l	SW846 8260B
m,p-Xylene		0.58 J	2.0	0.31	ug/l	SW846 8260B
TPH (C10-C22)		0.103 J	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)		0.128 J	0.19	0.077	mg/l	SW846 8015C
Iron		193 J	300	17	ug/l	SW846 6010C
Manganese		1350	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		9.5 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [c]		0.12 J	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [a]		0.073 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		6.8	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Total Kjeldahl		7.2	1.1	0.34	mg/l	EPA 351.2
Solids, Total Dissolved		3790	200	20	mg/l	SM2540 C-11
Sulfate		2020	50	15	mg/l	EPA 300/SW846 9056A
FA24564-11F	**SS17-MW19**					
Manganese		1240	15	1.0	ug/l	SW846 6010C
FA24564-12	**SS17-MW16**					
Ethylbenzene		0.52 J	1.0	0.20	ug/l	SW846 8260B
m,p-Xylene		0.38 J	2.0	0.31	ug/l	SW846 8260B
Iron		51.0 J	300	17	ug/l	SW846 6010C
Manganese		3.0 J	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand		11.9 J	20	5.3	mg/l	SM5220 C-11
Iron, Ferric [c]		0.051 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		18.4	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl		0.95	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved		3890	200	20	mg/l	SM2540 C-11
Sulfate		1810	50	15	mg/l	EPA 300/SW846 9056A
FA24564-12F	**SS17-MW16**					
Manganese		3.5 J	15	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-13	**SS17-MW14**					
Benzene		33.0	5.0	1.0	ug/l	SW846 8260B
sec-Butylbenzene		1.3 J	5.0	1.0	ug/l	SW846 8260B
Ethylbenzene		90.0	5.0	1.0	ug/l	SW846 8260B
Isopropylbenzene		3.7 J	5.0	1.0	ug/l	SW846 8260B
Naphthalene		11.9 J	25	5.0	ug/l	SW846 8260B
n-Propylbenzene		11.6	5.0	1.0	ug/l	SW846 8260B
Toluene		261	5.0	2.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		73.8	10	1.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		19.3	10	1.1	ug/l	SW846 8260B
m,p-Xylene		263	10	1.6	ug/l	SW846 8260B
o-Xylene		108	5.0	1.0	ug/l	SW846 8260B
1-Methylnaphthalene		1.4 J	4.7	0.47	ug/l	SW846 8270D
2-Methylnaphthalene		1.6 J	4.7	0.47	ug/l	SW846 8270D
Naphthalene		5.1	4.7	0.47	ug/l	SW846 8270D
TPH-GRO (C6-C10)		1.85	0.50	0.25	mg/l	SW846 8015C
TPH (C10-C22)		0.447	0.19	0.077	mg/l	SW846 8015C
TPH (> C22-C36)		0.0851 J	0.19	0.077	mg/l	SW846 8015C
Iron		1120	300	17	ug/l	SW846 6010C
Manganese		50.9	15	1.0	ug/l	SW846 6010C
BOD, 5 Day		26.4	20	20	mg/l	SM5210 B-11
Chemical Oxygen Demand		47.6	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide		11	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferric [c]		0.96	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [a]		0.16	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia		0.47	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		5060	500	50	mg/l	SM2540 C-11
Sulfate		2520	100	30	mg/l	EPA 300/SW846 9056A
FA24564-13F	**SS17-MW14**					
Manganese		35.2	15	1.0	ug/l	SW846 6010C
FA24564-14	**SS17-MW07**					
sec-Butylbenzene		1.0	1.0	0.20	ug/l	SW846 8260B
tert-Butylbenzene		0.23 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		6.1	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.27 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene		1.3 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		0.92 J	1.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		1.3 J	2.0	0.20	ug/l	SW846 8260B
m,p-Xylene		1.2 J	2.0	0.31	ug/l	SW846 8260B

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
TPH-GRO (C6-C10)	0.233	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.298	0.19	0.077	mg/l	SW846 8015C
Iron	116 J	300	17	ug/l	SW846 6010C
Manganese	612	15	1.0	ug/l	SW846 6010C
Hydrogen Sulfide	0.63 J	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]	0.093 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.14	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [e]	1.2	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.82	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2730	200	20	mg/l	SM2540 C-11
Sulfate	1720	50	15	mg/l	EPA 300/SW846 9056A
FA24564-14F SS17-MW07					
Manganese	584	15	1.0	ug/l	SW846 6010C
FA24564-15 SS17-MW07A					
sec-Butylbenzene	0.93 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene	5.2	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene	0.24 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene	1.2 J	5.0	1.0	ug/l	SW846 8260B
n-Propylbenzene	0.81 J	1.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	1.1 J	2.0	0.20	ug/l	SW846 8260B
m,p-Xylene	1.0 J	2.0	0.31	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.260	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)	0.272	0.19	0.077	mg/l	SW846 8015C
Iron	106 J	300	17	ug/l	SW846 6010C
Manganese	557	15	1.0	ug/l	SW846 6010C
Chemical Oxygen Demand	7.1 J	20	5.3	mg/l	SM5220 C-11
Hydrogen Sulfide	1.3	1.0	0.50	mg/l	SM4500S2- F-11
Iron, Ferrous [a]	0.062 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	EPA 350.1
Nitrogen, Nitrate [e]	1.5	1.0	0.50	mg/l	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.72	0.53	0.17	mg/l	EPA 351.2
Solids, Total Dissolved	2770	200	20	mg/l	SM2540 C-11
Sulfate	1710	50	15	mg/l	EPA 300/SW846 9056A
FA24564-15F SS17-MW07A					
Manganese	526	15	1.0	ug/l	SW846 6010C
FA24564-16 TRIP BLANK 1					

No hits reported in this sample.

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24564-17	**TRIP BLANK 2**					
1,2-Dichloroethane [f]		0.24 J	1.0	0.20	ug/l	SW846 8260B
FA24564-18	**TRIP BLANK 3**					
Methyl Chloride [g]		0.51 J	2.0	0.50	ug/l	SW846 8260B
Toluene [f]		0.84 J	1.0	0.40	ug/l	SW846 8260B
FA24564-19	**TRIP BLANK 4**					
Methyl Chloride [g]		0.67 J	2.0	0.50	ug/l	SW846 8260B
Toluene [f]		1.3	1.0	0.40	ug/l	SW846 8260B
FA24564-20	**TRIP BLANK 5**					
No hits reported in this sample.						
FA24564-21	**TRIP BLANK 6**					
No hits reported in this sample.						
FA24564-22	**TRIP BLANK 7**					
Toluene [f]		1.5	1.0	0.40	ug/l	SW846 8260B
FA24564-23	**TRIP BLANK 8**					
No hits reported in this sample.						
FA24564-24	**TRIP BLANK 9**					
Toluene [f]		1.4	1.0	0.40	ug/l	SW846 8260B
FA24564-25	**TRIP BLANK 10**					
Methyl Chloride [g]		0.78 J	2.0	0.50	ug/l	SW846 8260B
Toluene [f]		4.3	1.0	0.40	ug/l	SW846 8260B
FA24564-26	**TRIP BLANK 11**					
Methyl Chloride [g]		0.71 J	2.0	0.50	ug/l	SW846 8260B
Toluene [f]		0.86 J	1.0	0.40	ug/l	SW846 8260B

Summary of Hits

Job Number: FA24564
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/20/15 thru 05/21/15

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

FA24564-27 TRIP BLANK 12

No hits reported in this sample.

FA24564-28 TRIP BLANK 13

No hits reported in this sample.

FA24564-29 TRIP BLANK 14

No hits reported in this sample.

FA24564-30 TRIP BLANK 15

No hits reported in this sample.

FA24564-31 TRIP BLANK SOIL

No hits reported in this sample.

(a) Field analysis required. Received out of hold time and analyzed by request.
(b) Associated CCV outside control limits.
(c) Calculated as: (Iron) - (Iron, Ferrous)
(d) Dilution required due to matrix interference.
(e) Sample analyzed beyond hold time.
(f) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(g) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values. Associated CCV outside control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS17-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30288.D	20	06/02/15	WV	n/a	n/a	VI734
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	500	200	ug/l	
107-02-8	Acrolein	ND	400	100	ug/l	
107-13-1	Acrylonitrile	ND	200	40	ug/l	
71-43-2	Benzene	1370	20	4.0	ug/l	
108-86-1	Bromobenzene	ND	20	5.3	ug/l	
74-97-5	Bromochloromethane	ND	20	6.7	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.3	ug/l	
75-25-2	Bromoform	ND	20	6.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	23	ug/l	
104-51-8	n-Butylbenzene	ND	20	4.5	ug/l	
135-98-8	sec-Butylbenzene	ND	20	4.0	ug/l	
98-06-6	tert-Butylbenzene	ND	20	4.0	ug/l	
75-15-0	Carbon Disulfide	ND	40	5.9	ug/l	
56-23-5	Carbon Tetrachloride	ND	20	5.6	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	10	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	100	20	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.0	ug/l	
106-43-4	p-Chlorotoluene	ND	20	4.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	4.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	12	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	8.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	4.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	4.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	5.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	4.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.2	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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	20	5.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	5.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	5.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	4.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	5.2	ug/l	
100-41-4	Ethylbenzene	126	20	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	10	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	5.5	20	4.0	ug/l	J
99-87-6	p-Isopropyltoluene	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
74-95-3	Methylene Bromide	ND	40	5.0	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	6.0	ug/l	
91-20-3	Naphthalene	ND	100	20	ug/l	
103-65-1	n-Propylbenzene	30.7	20	4.0	ug/l	
100-42-5	Styrene	ND	20	5.6	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.5	ug/l	
108-88-3	Toluene	25.8	20	8.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	6.3	ug/l	
79-01-6	Trichloroethylene	ND	20	4.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	40	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.5	ug/l	
108-05-4	Vinyl Acetate [b]	ND	200	40	ug/l	
75-01-4	Vinyl Chloride	ND	20	5.0	ug/l	
	m,p-Xylene	13.7	40	6.3	ug/l	J
95-47-6	o-Xylene	ND	20	4.0	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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated CCV outside control limits.
(b) Associated ICV 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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682693.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	ug/l	
83-32-9	Acenaphthene	1.7	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

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

J = Indicates 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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	1.7	4.7	0.47	ug/l	J
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	2.2	4.7	0.47	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	4.7	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	0.70	4.7	0.52	ug/l	J
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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	25%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	62%		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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133772.D	20	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.53	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3932.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.02	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.163	0.20	0.080	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	588	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	483	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW03		
Lab Sample ID:	FA24564-1	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	19.7	8.0	8.0	mg/l	4	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	35.7	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	11.4	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.079 U	0.50	0.079	mg/l	1	05/27/15 16:36	LM	SM3500FE B-11
Iron, Ferrous [b]	0.71	0.20	0.062	mg/l	2	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.19	0.10	0.030	mg/l	1	05/30/15 18:48	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/22/15 19:54	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.0	0.53	0.17	mg/l	1	06/01/15 17:09	DM	EPA 351.2
Solids, Total Dissolved	3490	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1680	50	15	mg/l	25	05/27/15 02:34	VK	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-MW03		
Lab Sample ID:	FA24564-1F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	476	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30289.D	20	06/02/15	WV	n/a	n/a	VI734
Run #2	I30306.D	100	06/02/15	WV	n/a	n/a	VI734

	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	200	ug/l	
107-02-8	Acrolein	ND	400	100	ug/l	
107-13-1	Acrylonitrile	ND	200	40	ug/l	
71-43-2	Benzene	ND	20	4.0	ug/l	
108-86-1	Bromobenzene	ND	20	5.3	ug/l	
74-97-5	Bromochloromethane	ND	20	6.7	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.3	ug/l	
75-25-2	Bromoform	ND	20	6.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	23	ug/l	
104-51-8	n-Butylbenzene	9.1	20	4.5	ug/l	J
135-98-8	sec-Butylbenzene	8.9	20	4.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	4.0	ug/l	
75-15-0	Carbon Disulfide [a]	8.9	40	5.9	ug/l	J
56-23-5	Carbon Tetrachloride	ND	20	5.6	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	10	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	100	20	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.0	ug/l	
106-43-4	p-Chlorotoluene	ND	20	4.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	4.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	12	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	8.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	4.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	4.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	5.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	4.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.2	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-MW05		
Lab Sample ID:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	20	5.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	5.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	5.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	4.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	5.2	ug/l	
100-41-4	Ethylbenzene	2330 [b]	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	10	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	68.9	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
74-95-3	Methylene Bromide	ND	40	5.0	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	6.0	ug/l	
91-20-3	Naphthalene	149	100	20	ug/l	
103-65-1	n-Propylbenzene	198	20	4.0	ug/l	
100-42-5	Styrene	ND	20	5.6	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.5	ug/l	
108-88-3	Toluene	ND	20	8.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	6.3	ug/l	
79-01-6	Trichloroethylene	ND	20	4.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	101	40	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.5	ug/l	
108-05-4	Vinyl Acetate [c]	ND	200	40	ug/l	
75-01-4	Vinyl Chloride	ND	20	5.0	ug/l	
	m,p-Xylene	342	40	6.3	ug/l	
95-47-6	o-Xylene	ND	20	4.0	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:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	97%	79-125%
2037-26-5	Toluene-D8	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	97%	83-118%

(a) Associated CCV outside control limits.
(b) Result is from Run# 2
(c) Associated ICV 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:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682694.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	ug/l	
83-32-9	Acenaphthene	0.96	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS17-MW05		
Lab Sample ID:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.4	4.7	0.94	ug/l	J
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	0.65	4.7	0.47	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	28.5	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	8.2	4.7	0.47	ug/l	
91-20-3	Naphthalene	77.4	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW05		
Lab Sample ID:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	22%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	44%		42-108%
321-60-8	2-Fluorobiphenyl	52%		40-106%
1718-51-0	Terphenyl-d14	62%		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:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133773.D	20	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.44	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		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-MW05		
Lab Sample ID:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3933.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.28	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.138	0.19	0.077	mg/l	J

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-MW05		
Lab Sample ID:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	37.1 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	200	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-2	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	58.0	20	20	mg/l	10	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	83.3	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	25.1	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 16:41	LM	SM3500FE B-11
Iron, Ferrous [b]	0.14	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.36	0.10	0.030	mg/l	1	05/30/15 18:49	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/22/15 20:11	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.5	0.53	0.17	mg/l	1	06/01/15 17:10	DM	EPA 351.2
Solids, Total Dissolved	3260	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1910	50	15	mg/l	25	05/27/15 03:58	VK	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-MW05		
Lab Sample ID:	FA24564-2F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	229	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30290.D	20	06/02/15	WV	n/a	n/a	VI734
Run #2	I30307.D	100	06/02/15	WV	n/a	n/a	VI734

	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	200	ug/l	
107-02-8	Acrolein	ND	400	100	ug/l	
107-13-1	Acrylonitrile	ND	200	40	ug/l	
71-43-2	Benzene	ND	20	4.0	ug/l	
108-86-1	Bromobenzene	ND	20	5.3	ug/l	
74-97-5	Bromochloromethane	ND	20	6.7	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.3	ug/l	
75-25-2	Bromoform	ND	20	6.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	23	ug/l	
104-51-8	n-Butylbenzene	9.4	20	4.5	ug/l	J
135-98-8	sec-Butylbenzene	9.4	20	4.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	20	4.0	ug/l	
75-15-0	Carbon Disulfide [a]	12.0	40	5.9	ug/l	J
56-23-5	Carbon Tetrachloride	ND	20	5.6	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	10	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	100	20	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.0	ug/l	
106-43-4	p-Chlorotoluene	ND	20	4.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	4.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	12	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	8.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	4.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	4.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	5.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	4.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.2	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-MW05A		
Lab Sample ID:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	20	5.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	5.2	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	5.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	4.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	5.2	ug/l	
100-41-4	Ethylbenzene	2400 [b]	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	10	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	69.8	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
74-95-3	Methylene Bromide	ND	40	5.0	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	6.0	ug/l	
91-20-3	Naphthalene	179	100	20	ug/l	
103-65-1	n-Propylbenzene	195	20	4.0	ug/l	
100-42-5	Styrene	ND	20	5.6	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.5	ug/l	
108-88-3	Toluene	ND	20	8.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	6.3	ug/l	
79-01-6	Trichloroethylene	ND	20	4.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	97.3	40	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.5	ug/l	
108-05-4	Vinyl Acetate	ND	200	40	ug/l	
75-01-4	Vinyl Chloride	ND	20	5.0	ug/l	
	m,p-Xylene	347	40	6.3	ug/l	
95-47-6	o-Xylene	ND	20	4.0	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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	98%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	97%	97%	83-118%

(a) Associated CCV 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-MW05A		
Lab Sample ID:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682697.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
Run #2	L0682770.D	4	06/11/15	MV	05/27/15	OP56214	SL3672

	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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	ug/l	
83-32-9	Acenaphthene	1.1	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

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

J = Indicates 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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	0.81	4.7	0.47	ug/l	J
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.3	4.7	0.94	ug/l	J
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	0.76	4.7	0.47	ug/l	J
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	30.7	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	10.4	4.7	0.47	ug/l	
91-20-3	Naphthalene	119 [a]	19	1.9	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	0.49	4.7	0.48	ug/l	J
129-00-0	Pyrene	ND	4.7	0.52	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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	22%	24%	14-67%
4165-62-2	Phenol-d5	18%	20%	10-50%
118-79-6	2,4,6-Tribromophenol	69%	69%	33-118%
4165-60-0	Nitrobenzene-d5	47%	62%	42-108%
321-60-8	2-Fluorobiphenyl	58%	60%	40-106%
1718-51-0	Terphenyl-d14	64%	85%	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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133774.D	20	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.47	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-131%
98-08-8	aaa-Trifluorotoluene	93%		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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3936.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.34	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.124	0.19	0.077	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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23.9 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	239	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-3	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	56.1	20	20	mg/l	10	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	76.2	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	38.7	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 16:54	LM	SM3500FE B-11
Iron, Ferrous [b]	0.21	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.31	0.10	0.030	mg/l	1	05/30/15 18:50	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/22/15 20:27	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.4	0.53	0.17	mg/l	1	06/01/15 17:11	DM	EPA 351.2
Solids, Total Dissolved	3420	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1900	50	15	mg/l	25	05/27/15 04:15	VK	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-MW05A		
Lab Sample ID:	FA24564-3F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	246	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30291.D	50	06/02/15	WV	n/a	n/a	VI734
Run #2	I30308.D	1000	06/02/15	WV	n/a	n/a	VI734

	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	3000	1300	500	ug/l	
107-02-8	Acrolein	ND	1000	250	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	57000 [a]	1000	200	ug/l	
108-86-1	Bromobenzene	ND	50	13	ug/l	
74-97-5	Bromochloromethane	ND	50	17	ug/l	
75-27-4	Bromodichloromethane	ND	50	11	ug/l	
75-25-2	Bromoform	ND	50	16	ug/l	
78-93-3	2-Butanone (MEK)	1420	250	58	ug/l	
104-51-8	n-Butylbenzene	17.5	50	11	ug/l	J
135-98-8	sec-Butylbenzene	11.2	50	10	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	10	ug/l	
75-15-0	Carbon Disulfide	ND	100	15	ug/l	
56-23-5	Carbon Tetrachloride	ND	50	14	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [b]	ND	250	50	ug/l	
67-66-3	Chloroform	ND	50	15	ug/l	
95-49-8	o-Chlorotoluene	ND	50	10	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	31	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	12	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	10	ug/l	
107-06-2	1,2-Dichloroethane	49.2	50	10	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	50	14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW21		
Lab Sample ID:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	13	ug/l	
100-41-4	Ethylbenzene	4670 [a]	1000	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
98-82-8	Isopropylbenzene	95.3	50	10	ug/l	
99-87-6	p-Isopropyltoluene	15.7	50	10	ug/l	J
74-83-9	Methyl Bromide	ND	100	25	ug/l	
74-87-3	Methyl Chloride	ND	100	25	ug/l	
74-95-3	Methylene Bromide	ND	100	13	ug/l	
75-09-2	Methylene Chloride	ND	250	100	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	15	ug/l	
91-20-3	Naphthalene	408	250	50	ug/l	
103-65-1	n-Propylbenzene	320	50	10	ug/l	
100-42-5	Styrene	ND	50	14	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	11	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	11	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	50400 [a]	1000	400	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	16	ug/l	
79-01-6	Trichloroethylene	ND	50	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	33	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1990	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	506	100	11	ug/l	
108-05-4	Vinyl Acetate	ND	500	100	ug/l	
75-01-4	Vinyl Chloride	ND	50	13	ug/l	
	m,p-Xylene	11800 [a]	2000	310	ug/l	
95-47-6	o-Xylene	5310 [a]	1000	200	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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	96%	79-125%
2037-26-5	Toluene-D8	104%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	83-118%

(a) Result is from Run# 2
(b) Associated CCV 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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682698.D	20	06/05/15	MV	05/27/15	OP56214	SL3669
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	940	190	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	94	9.4	ug/l	
95-57-8	2-Chlorophenol	ND	94	9.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	94	9.4	ug/l	
105-67-9	2,4-Dimethylphenol	343	94	9.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	470	94	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/l	
95-48-7	2-Methylphenol	969	94	9.4	ug/l	
	3&4-Methylphenol	909	94	19	ug/l	
88-75-5	2-Nitrophenol	ND	94	17	ug/l	
100-02-7	4-Nitrophenol	ND	470	94	ug/l	
87-86-5	Pentachlorophenol	ND	470	94	ug/l	
108-95-2	Phenol	807	94	9.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	94	13	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	94	12	ug/l	
83-32-9	Acenaphthene	ND	94	9.4	ug/l	
208-96-8	Acenaphthylene	ND	94	9.4	ug/l	
62-53-3	Aniline	ND	94	19	ug/l	
120-12-7	Anthracene	ND	94	9.4	ug/l	
92-87-5	Benzidine	ND	470	94	ug/l	
56-55-3	Benzo(a)anthracene	ND	94	9.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	94	9.4	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	94	11	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	94	12	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	94	13	ug/l	
100-51-6	Benzyl Alcohol	ND	94	16	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	94	12	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	94	19	ug/l	
86-74-8	Carbazole	ND	94	9.4	ug/l	
106-47-8	4-Chloroaniline	ND	94	9.4	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	94	12	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	94	13	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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	94	9.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	94	9.4	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	94	11	ug/l	
218-01-9	Chrysene	ND	94	9.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	94	13	ug/l	
132-64-9	Dibenzofuran	ND	94	9.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	94	9.4	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	94	12	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	94	12	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	94	9.8	ug/l	
84-66-2	Diethyl Phthalate	ND	94	27	ug/l	
131-11-3	Dimethyl Phthalate	ND	94	19	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	94	19	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	94	19	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	94	11	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	94	13	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	94	11	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	94	19	ug/l	
206-44-0	Fluoranthene	ND	94	9.4	ug/l	
86-73-7	Fluorene	ND	94	9.5	ug/l	
118-74-1	Hexachlorobenzene	ND	94	12	ug/l	
87-68-3	Hexachlorobutadiene	ND	94	11	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	94	19	ug/l	
67-72-1	Hexachloroethane	ND	94	13	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	94	12	ug/l	
78-59-1	Isophorone	ND	94	9.6	ug/l	
90-12-0	1-Methylnaphthalene	44.5	94	9.4	ug/l	J
91-57-6	2-Methylnaphthalene	75.1	94	9.5	ug/l	J
91-20-3	Naphthalene	393	94	9.4	ug/l	
88-74-4	2-Nitroaniline	ND	94	9.4	ug/l	
99-09-2	3-Nitroaniline	ND	94	10	ug/l	
100-01-6	4-Nitroaniline	ND	94	19	ug/l	
98-95-3	Nitrobenzene	ND	94	9.8	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	94	19	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	94	11	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	94	11	ug/l	
85-01-8	Phenanthrene	ND	94	9.7	ug/l	
129-00-0	Pyrene	ND	94	10	ug/l	
110-86-1	Pyridine	ND	190	38	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	94	9.4	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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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% [a]		14-67%
4165-62-2	Phenol-d5	0% [a]		10-50%
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) 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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133775.D	500	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	206	50	25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		70-131%
98-08-8	aaa-Trifluorotoluene	84%		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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3956.D	5	06/03/15	SJL	05/27/15	OP56215	GWW177
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	17.6	0.96	0.38	mg/l	
	TPH (> C22-C36)	0.925	0.96	0.38	mg/l	J

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-MW21		
Lab Sample ID:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	62.1 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	15.8	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-4	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	152	40	40	mg/l	20	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	1200	20	5.3	mg/l	1	06/01/15 17:15	FN	SM5220 C-11
Hydrogen Sulfide	242	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.062 J	0.40	0.047	mg/l	1	05/27/15 16:58	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	1.6	0.10	0.030	mg/l	1	05/30/15 18:51	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	05/22/15 20:43	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	7.8	1.1	0.34	mg/l	2	06/01/15 17:39	DM	EPA 351.2
Solids, Total Dissolved	4400	500	50	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1730	50	15	mg/l	25	05/22/15 20:43	VK	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:	FA24564-4F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	17.8	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30309.D	5	06/02/15	WV	n/a	n/a	VI734
Run #2	I30292.D	10	06/02/15	WV	n/a	n/a	VI734

	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	130	50	ug/l	
107-02-8	Acrolein	ND	100	25	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	281	5.0	1.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/l	
75-25-2	Bromoform	ND	5.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	5.8	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/l	
75-15-0	Carbon Disulfide [a]	2.8	10	1.5	ug/l	J
56-23-5	Carbon Tetrachloride	ND	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	25	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	78.3	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	2.3	5.0	1.0	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
74-83-9	Methyl Bromide	ND	10	2.5	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
74-95-3	Methylene Bromide	ND	10	1.3	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.8	5.0	1.5	ug/l	J
91-20-3	Naphthalene	6.5	25	5.0	ug/l	J
103-65-1	n-Propylbenzene	7.0	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	493 [b]	10	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	3.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	37.1	10	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	9.4	10	1.1	ug/l	J
108-05-4	Vinyl Acetate [c]	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	5.0	1.3	ug/l	
	m,p-Xylene	207	10	1.6	ug/l	
95-47-6	o-Xylene	89.0	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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	97%	79-125%
2037-26-5	Toluene-D8	100%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	83-118%

(a) Associated CCV outside control limits.
(b) Result is from Run# 2
(c) Associated ICV 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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682699.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	0.53	4.7	0.47	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	1.0	4.7	0.94	ug/l	J
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	0.83	4.7	0.47	ug/l	J
91-57-6	2-Methylnaphthalene	1.3	4.7	0.47	ug/l	J
91-20-3	Naphthalene	5.7	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	23%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	54%		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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133776.D	10	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.34	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		70-131%
98-08-8	aaa-Trifluorotoluene	93%		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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3957.D	1	06/03/15	SJL	05/27/15	OP56215	GWW177
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.79	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.428	0.19	0.077	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 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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5180	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1890	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW06		
Lab Sample ID:	FA24564-5	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	26.2	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	7.6	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	2.8	0.80	0.17	mg/l	1	05/27/15 15:08	LM	SM3500FE B-11
Iron, Ferrous [b]	2.4	0.50	0.16	mg/l	5	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.45	0.10	0.030	mg/l	1	05/30/15 18:54	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	05/22/15 11:17	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.9	0.53	0.17	mg/l	1	06/01/15 17:15	DM	EPA 351.2
Solids, Total Dissolved	5640	500	50	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	3160	100	30	mg/l	50	05/29/15 03:27	VK	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-MW06		
Lab Sample ID:	FA24564-5F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	1840	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30293.D	50	06/02/15	WV	n/a	n/a	VI734
Run #2	I30310.D	100	06/02/15	WV	n/a	n/a	VI734

	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	1300	500	ug/l	
107-02-8	Acrolein	ND	1000	250	ug/l	
107-13-1	Acrylonitrile	ND	500	100	ug/l	
71-43-2	Benzene	ND	50	10	ug/l	
108-86-1	Bromobenzene	ND	50	13	ug/l	
74-97-5	Bromochloromethane	ND	50	17	ug/l	
75-27-4	Bromodichloromethane	ND	50	11	ug/l	
75-25-2	Bromoform	ND	50	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	58	ug/l	
104-51-8	n-Butylbenzene	11.4	50	11	ug/l	J
135-98-8	sec-Butylbenzene	10.9	50	10	ug/l	J
98-06-6	tert-Butylbenzene	ND	50	10	ug/l	
75-15-0	Carbon Disulfide [a]	35.7	100	15	ug/l	J
56-23-5	Carbon Tetrachloride	ND	50	14	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	25	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	250	50	ug/l	
67-66-3	Chloroform	ND	50	15	ug/l	
95-49-8	o-Chlorotoluene	ND	50	10	ug/l	
106-43-4	p-Chlorotoluene	ND	50	10	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	31	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	12	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	14	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW08		
Lab Sample ID:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	13	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	13	ug/l	
100-41-4	Ethylbenzene	4580 [b]	100	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	25	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
98-82-8	Isopropylbenzene	90.4	50	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	100	25	ug/l	
74-87-3	Methyl Chloride	ND	100	25	ug/l	
74-95-3	Methylene Bromide	ND	100	13	ug/l	
75-09-2	Methylene Chloride	ND	250	100	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	15	ug/l	
91-20-3	Naphthalene	317	250	50	ug/l	
103-65-1	n-Propylbenzene	286	50	10	ug/l	
100-42-5	Styrene	ND	50	14	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	11	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	11	ug/l	
127-18-4	Tetrachloroethylene	ND	50	16	ug/l	
108-88-3	Toluene	ND	50	20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	16	ug/l	
79-01-6	Trichloroethylene	ND	50	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	33	ug/l	
95-63-6	1,2,4-Trimethylbenzene	799	100	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	176	100	11	ug/l	
108-05-4	Vinyl Acetate [c]	ND	500	100	ug/l	
75-01-4	Vinyl Chloride	ND	50	13	ug/l	
	m,p-Xylene	4720	100	16	ug/l	
95-47-6	o-Xylene	16.5	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-MW08		
Lab Sample ID:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	93%	79-125%
2037-26-5	Toluene-D8	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	83-118%

(a) Associated CCV outside control limits.
(b) Result is from Run# 2
(c) Associated ICV 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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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]	L0682700.D	2	06/05/15	MV	05/27/15	OP56214	SL3669
Run #2	L0682771.D	10	06/11/15	MV	05/27/15	OP56214	SL3672

	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	94	19	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	9.4	0.94	ug/l	
95-57-8	2-Chlorophenol	ND	9.4	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	9.4	0.94	ug/l	
105-67-9	2,4-Dimethylphenol	ND	9.4	0.94	ug/l	
51-28-5	2,4-Dinitrophenol	ND	47	9.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	19	4.0	ug/l	
95-48-7	2-Methylphenol	ND	9.4	0.94	ug/l	
	3&4-Methylphenol	ND	9.4	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	9.4	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	47	9.4	ug/l	
87-86-5	Pentachlorophenol	ND	47	9.4	ug/l	
108-95-2	Phenol	ND	9.4	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	9.4	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	9.4	1.2	ug/l	
83-32-9	Acenaphthene	ND	9.4	0.94	ug/l	
208-96-8	Acenaphthylene	ND	9.4	0.94	ug/l	
62-53-3	Aniline	ND	9.4	1.9	ug/l	
120-12-7	Anthracene	ND	9.4	0.94	ug/l	
92-87-5	Benzidine	ND	47	9.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	9.4	0.94	ug/l	
50-32-8	Benzo(a)pyrene	ND	9.4	0.94	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	9.4	1.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	9.4	1.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	9.4	1.3	ug/l	
100-51-6	Benzyl Alcohol	ND	9.4	1.6	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	9.4	1.2	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	9.4	1.9	ug/l	
86-74-8	Carbazole	ND	9.4	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	9.4	0.94	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	9.4	1.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	9.4	1.3	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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	9.4	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	9.4	0.94	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	9.4	1.1	ug/l	
218-01-9	Chrysene	ND	9.4	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	9.4	1.3	ug/l	
132-64-9	Dibenzofuran	ND	9.4	0.94	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	9.4	0.94	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	9.4	1.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	9.4	1.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.4	0.98	ug/l	
84-66-2	Diethyl Phthalate	ND	9.4	2.7	ug/l	
131-11-3	Dimethyl Phthalate	ND	9.4	1.9	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	9.4	1.9	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	9.4	1.9	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	9.4	1.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	9.4	1.3	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	9.4	1.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	9.4	1.9	ug/l	
206-44-0	Fluoranthene	ND	9.4	0.94	ug/l	
86-73-7	Fluorene	ND	9.4	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	9.4	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	9.4	1.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.4	1.9	ug/l	
67-72-1	Hexachloroethane	ND	9.4	1.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	9.4	1.2	ug/l	
78-59-1	Isophorone	ND	9.4	0.96	ug/l	
90-12-0	1-Methylnaphthalene	47.2	9.4	0.94	ug/l	
91-57-6	2-Methylnaphthalene	17.7	9.4	0.95	ug/l	
91-20-3	Naphthalene	216 [b]	47	4.7	ug/l	
88-74-4	2-Nitroaniline	ND	9.4	0.94	ug/l	
99-09-2	3-Nitroaniline	ND	9.4	1.0	ug/l	
100-01-6	4-Nitroaniline	ND	9.4	1.9	ug/l	
98-95-3	Nitrobenzene	ND	9.4	0.98	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	9.4	1.9	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	9.4	1.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	9.4	1.1	ug/l	
85-01-8	Phenanthrene	ND	9.4	0.97	ug/l	
129-00-0	Pyrene	ND	9.4	1.0	ug/l	
110-86-1	Pyridine	ND	19	3.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	9.4	0.94	ug/l	

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

J = Indicates 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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	14%	20%	14-67%
4165-62-2	Phenol-d5	21%	26%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	67%	33-118%
4165-60-0	Nitrobenzene-d5	58%	64%	42-108%
321-60-8	2-Fluorobiphenyl	69%	72%	40-106%
1718-51-0	Terphenyl-d14	84%	81%	39-121%

(a) Dilution required due to matrix interference.
(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-MW08		
Lab Sample ID:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133777.D	50	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	20.7	5.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3939.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.00	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	96.9 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	50.8	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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:	FA24564-6	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	33.2	20	20	mg/l	10	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	52.4	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	27.3	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 15:12	LM	SM3500FE B-11
Iron, Ferrous [b]	0.19	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.18	0.10	0.030	mg/l	1	05/30/15 18:55	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/22/15 11:05	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.2	0.53	0.17	mg/l	1	06/01/15 17:16	DM	EPA 351.2
Solids, Total Dissolved	2410	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1530	50	15	mg/l	25	05/26/15 19:14	VK	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:	FA24564-6F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	53.7	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30294.D	5	06/02/15	WV	n/a	n/a	VI734
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
107-02-8	Acrolein	ND	100	25	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	185	5.0	1.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/l	
75-25-2	Bromoform	ND	5.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	5.8	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/l	
75-15-0	Carbon Disulfide [a]	3.2	10	1.5	ug/l	J
56-23-5	Carbon Tetrachloride	ND	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	25	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	85.1	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	2.3	5.0	1.0	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
74-83-9	Methyl Bromide	ND	10	2.5	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
74-95-3	Methylene Bromide	ND	10	1.3	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/l	
91-20-3	Naphthalene	10.1	25	5.0	ug/l	J
103-65-1	n-Propylbenzene	8.3	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	473	5.0	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	3.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	45.5	10	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	12.4	10	1.1	ug/l	
108-05-4	Vinyl Acetate [b]	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	5.0	1.3	ug/l	
	m,p-Xylene	227	10	1.6	ug/l	
95-47-6	o-Xylene	100	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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	94%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated CCV outside control limits.
(b) Associated ICV 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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682701.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

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

J = Indicates 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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	0.80	4.7	0.47	ug/l	J
91-57-6	2-Methylnaphthalene	1.3	4.7	0.47	ug/l	J
91-20-3	Naphthalene	4.8	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	22%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	61%		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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133780.D	5	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.76	0.50	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		70-131%
98-08-8	aaa-Trifluorotoluene	88%		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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3942.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.225	0.20	0.080	mg/l	
	TPH (> C22-C36)	0.0999	0.20	0.080	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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates 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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	146 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1170	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MWBX01		
Lab Sample ID:	FA24564-7	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	19.1 J	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.15 J	0.40	0.047	mg/l	1	05/27/15 15:17	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.033 J	0.10	0.030	mg/l	1	05/30/15 18:56	JC	EPA 350.1
Nitrogen, Nitrate	2.6	2.5	1.3	mg/l	25	05/22/15 11:01	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.1	0.53	0.17	mg/l	1	06/01/15 17:17	DM	EPA 351.2
Solids, Total Dissolved	4390	500	50	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	2400	50	15	mg/l	25	05/22/15 11:01	VK	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-MWBX01		
Lab Sample ID:	FA24564-7F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	988	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30295.D	1	06/02/15	WV	n/a	n/a	VI734
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide [a]	0.46	2.0	0.29	ug/l	J
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.46	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	9.7	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.27	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	1.2	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.3	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.54	2.0	0.22	ug/l	J
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	9.0	2.0	0.31	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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	101%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Associated CCV outside control limits.
(b) Associated ICV 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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682702.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	29%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	58%		33-118%
4165-60-0	Nitrobenzene-d5	53%		42-108%
321-60-8	2-Fluorobiphenyl	53%		40-106%
1718-51-0	Terphenyl-d14	57%		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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133761.D	1	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0665	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	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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3943.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.108	0.19	0.077	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	17 U	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	978	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW20		
Lab Sample ID:	FA24564-8	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	19.1 J	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 15:21	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.20	0.10	0.030	mg/l	1	05/30/15 18:57	JC	EPA 350.1
Nitrogen, Nitrate	11.2	5.0	2.5	mg/l	50	05/22/15 12:13	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.7	0.53	0.17	mg/l	1	06/01/15 17:19	DM	EPA 351.2
Solids, Total Dissolved	9760	500	50	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	4810	100	30	mg/l	50	05/22/15 12:13	VK	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-MW20		
Lab Sample ID:	FA24564-8F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	999	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B105969.D	1	06/04/15	WV	n/a	n/a	VB4293
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	2.6	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	1.0	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	0.82	2.0	0.31	ug/l	J
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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	101%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	99%		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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	X040260.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

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

J = Indicates 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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	82%		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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133762.D	1	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		70-131%
98-08-8	aaa-Trifluorotoluene	80%		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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3944.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.0956	0.19	0.077	mg/l	J

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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	43.4 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	5520	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW18		
Lab Sample ID:	FA24564-9	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 15:26	LM	SM3500FE B-11
Iron, Ferrous [b]	0.062 J	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:58	JC	EPA 350.1
Nitrogen, Nitrate [c]	2.5 U	5.0	2.5	mg/l	50	05/22/15 11:22	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.98	0.53	0.17	mg/l	1	06/01/15 17:22	DM	EPA 351.2
Solids, Total Dissolved	6060	500	50	mg/l	1	05/27/15 16:10	KC	SM2540 C-11
Sulfate	3440	100	30	mg/l	50	05/22/15 11:22	VK	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-MW18		
Lab Sample ID:	FA24564-9F	**Date Sampled:**	05/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	4950	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B105970.D	10	06/04/15	WV	n/a	n/a	VB4293
Run #2 [a]	I30352.D	10	06/03/15	WV	n/a	n/a	VI736

	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	250	100	ug/l	
107-02-8	Acrolein	ND	200	50	ug/l	
107-13-1	Acrylonitrile	ND	100	20	ug/l	
71-43-2	Benzene	124	10	2.0	ug/l	
108-86-1	Bromobenzene	ND	10	2.7	ug/l	
74-97-5	Bromochloromethane	ND	10	3.4	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.2	ug/l	
75-25-2	Bromoform	ND	10	3.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	12	ug/l	
104-51-8	n-Butylbenzene	ND	10	2.2	ug/l	
135-98-8	sec-Butylbenzene	ND	10	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	10	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	20	2.9	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	2.8	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	20	5.0	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	50	10	ug/l	
67-66-3	Chloroform	ND	10	3.0	ug/l	
95-49-8	o-Chlorotoluene	ND	10	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	10	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	6.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	4.2	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	2.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.7	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	2.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.1	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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	10	2.5	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	2.6	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	2.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.6	ug/l	
100-41-4	Ethylbenzene	94.8	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	5.0	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	20	5.0	ug/l	
74-87-3	Methyl Chloride	ND	20	5.0	ug/l	
74-95-3	Methylene Bromide	ND	20	2.5	ug/l	
75-09-2	Methylene Chloride	ND	50	20	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	3.0	ug/l	
91-20-3	Naphthalene	ND	50	10	ug/l	
103-65-1	n-Propylbenzene	6.8	10	2.0	ug/l	J
100-42-5	Styrene	ND	10	2.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	2.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.2	ug/l	
127-18-4	Tetrachloroethylene	ND	10	3.3	ug/l	
108-88-3	Toluene	530	10	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.6	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	3.1	ug/l	
79-01-6	Trichloroethylene	ND	10	2.2	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	6.6	ug/l	
95-63-6	1,2,4-Trimethylbenzene	44.4	20	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	12.9	20	2.2	ug/l	J
108-05-4	Vinyl Acetate	ND	100	20	ug/l	
75-01-4	Vinyl Chloride	ND	10	2.5	ug/l	
	m,p-Xylene	272	20	3.1	ug/l	
95-47-6	o-Xylene	107	10	2.0	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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	96%	92%	79-125%
2037-26-5	Toluene-D8	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	96%	83-118%

(a) Confirmation run.

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

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

Report of Analysis

Client Sample ID:	SS17-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	X040261.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	0.51	4.7	0.47	ug/l	J
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	0.90	4.7	0.80	ug/l	J
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	ug/l	

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

J = Indicates 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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	0.68	4.7	0.47	ug/l	J
91-57-6	2-Methylnaphthalene	0.79	4.7	0.47	ug/l	J
91-20-3	Naphthalene	2.9	4.7	0.47	ug/l	J
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	21%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	63%		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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133781.D	10	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.10	1.0	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		70-131%
98-08-8	aaa-Trifluorotoluene	88%		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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3945.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.19	0.077	mg/l	
	TPH (> C22-C36)	ND	0.19	0.077	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	67.8 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	6.8 J	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW04		
Lab Sample ID:	FA24564-10	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.068 J	0.40	0.047	mg/l	1	05/27/15 15:30	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	05/30/15 18:59	JC	EPA 350.1
Nitrogen, Nitrate	4.1	1.0	0.50	mg/l	10	05/22/15 19:22	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.45 J	0.53	0.17	mg/l	1	06/01/15 17:23	DM	EPA 351.2
Solids, Total Dissolved	2450	200	20	mg/l	1	05/27/15 16:10	KC	SM2540 C-11
Sulfate	1530	50	15	mg/l	25	05/27/15 02:17	VK	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-MW04		
Lab Sample ID:	FA24564-10F	**Date Sampled:**	05/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	6.7 J	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B105971.D	1	06/04/15	WV	n/a	n/a	VB4293
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.51	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	0.71	1.0	0.20	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	0.58	2.0	0.31	ug/l	J
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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	100%		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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	X040262.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	25%		10-50%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

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

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

Report of Analysis

Client Sample ID:	SS17-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133763.D	1	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		70-131%
98-08-8	aaa-Trifluorotoluene	79%		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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3946.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.103	0.19	0.077	mg/l	J
	TPH (> C22-C36)	0.128	0.19	0.077	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	193 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1350	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW19		
Lab Sample ID:	FA24564-11	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	9.5 J	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.12 J	0.40	0.047	mg/l	1	05/27/15 15:35	LM	SM3500FE B-11
Iron, Ferrous [b]	0.073 J	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	6.8	0.10	0.030	mg/l	1	05/30/15 19:00	JC	EPA 350.1
Nitrogen, Nitrate [c]	0.50 U	1.0	0.50	mg/l	10	05/22/15 15:36	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	7.2	1.1	0.34	mg/l	2	06/01/15 17:41	DM	EPA 351.2
Solids, Total Dissolved	3790	200	20	mg/l	1	05/27/15 16:10	KC	SM2540 C-11
Sulfate	2020	50	15	mg/l	25	05/27/15 01:43	VK	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-MW19		
Lab Sample ID:	FA24564-11F	**Date Sampled:**	05/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	1240	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B105972.D	1	06/04/15	WV	n/a	n/a	VB4293
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	0.52	1.0	0.20	ug/l	J
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	0.38	2.0	0.31	ug/l	J
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:	SS17-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	102%		79-125%
2037-26-5	Toluene-D8	105%		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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	X040265.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	71%		33-118%
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	80%		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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133764.D	1	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		70-131%
98-08-8	aaa-Trifluorotoluene	82%		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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3947.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	51.0 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	3.0 J	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW16		
Lab Sample ID:	FA24564-12	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	11.9 J	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.50 U	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.051 J	0.40	0.047	mg/l	1	05/27/15 15:48	LM	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.030 U	0.10	0.030	mg/l	1	06/03/15 13:03	JC	EPA 350.1
Nitrogen, Nitrate	18.4	1.0	0.50	mg/l	10	05/22/15 15:52	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.95	0.53	0.17	mg/l	1	06/01/15 17:25	DM	EPA 351.2
Solids, Total Dissolved	3890	200	20	mg/l	1	05/27/15 16:10	KC	SM2540 C-11
Sulfate	1810	50	15	mg/l	25	05/29/15 00:21	VK	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-MW16		
Lab Sample ID:	FA24564-12F	**Date Sampled:**	05/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	3.5 J	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B105973.D	5	06/04/15	WV	n/a	n/a	VB4293
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
107-02-8	Acrolein	ND	100	25	ug/l	
107-13-1	Acrylonitrile	ND	50	10	ug/l	
71-43-2	Benzene	33.0	5.0	1.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/l	
75-25-2	Bromoform	ND	5.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	5.8	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	1.3	5.0	1.0	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/l	
75-15-0	Carbon Disulfide	ND	10	1.5	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	3.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	2.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	90.0	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	2.5	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	3.7	5.0	1.0	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/l	
74-83-9	Methyl Bromide	ND	10	2.5	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
74-95-3	Methylene Bromide	ND	10	1.3	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/l	
91-20-3	Naphthalene	11.9	25	5.0	ug/l	J
103-65-1	n-Propylbenzene	11.6	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/l	
108-88-3	Toluene	261	5.0	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	3.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	73.8	10	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	19.3	10	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	5.0	1.3	ug/l	
	m,p-Xylene	263	10	1.6	ug/l	
95-47-6	o-Xylene	108	5.0	1.0	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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	98%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	96%		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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	X040266.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.7	0.47	ug/l	
95-57-8	2-Chlorophenol	ND	4.7	0.47	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.47	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.47	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.4	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.7	0.47	ug/l	
	3&4-Methylphenol	ND	4.7	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.83	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.59	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	0.47	ug/l	
92-87-5	Benzidine	ND	24	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.55	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.62	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.64	ug/l	
100-51-6	Benzyl Alcohol	ND	4.7	0.80	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.7	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.7	0.94	ug/l	
86-74-8	Carbazole	ND	4.7	0.47	ug/l	
106-47-8	4-Chloroaniline	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.65	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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.7	0.54	ug/l	
218-01-9	Chrysene	ND	4.7	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.61	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.49	ug/l	
84-66-2	Diethyl Phthalate	ND	4.7	1.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.7	0.94	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	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.65	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	0.94	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	0.94	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.64	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.60	ug/l	
78-59-1	Isophorone	ND	4.7	0.48	ug/l	
90-12-0	1-Methylnaphthalene	1.4	4.7	0.47	ug/l	J
91-57-6	2-Methylnaphthalene	1.6	4.7	0.47	ug/l	J
91-20-3	Naphthalene	5.1	4.7	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	4.7	0.47	ug/l	
99-09-2	3-Nitroaniline	ND	4.7	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	4.7	0.93	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.49	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.94	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.7	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.48	ug/l	
129-00-0	Pyrene	ND	4.7	0.52	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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	78%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	67%		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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133782.D	5	05/27/15	EG	n/a	n/a	GCD5506
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.85	0.50	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-131%
98-08-8	aaa-Trifluorotoluene	98%		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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3948.D	1	06/03/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.447	0.19	0.077	mg/l	
	TPH (> C22-C36)	0.0851	0.19	0.077	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1120	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	50.9	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW14		
Lab Sample ID:	FA24564-13	**Date Sampled:**	05/21/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	26.4	20	20	mg/l	10	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	47.6	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	11	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.96	0.40	0.047	mg/l	1	05/27/15 15:52	LM	SM3500FE B-11
Iron, Ferrous [b]	0.16	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.47	0.10	0.030	mg/l	1	06/03/15 13:04	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.3 U	2.5	1.3	mg/l	25	05/22/15 14:47	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	1.3	0.53	0.17	mg/l	1	06/01/15 17:26	DM	EPA 351.2
Solids, Total Dissolved	5060	500	50	mg/l	1	05/27/15 16:10	KC	SM2540 C-11
Sulfate	2520	100	30	mg/l	50	05/29/15 00:38	VK	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-MW14		
Lab Sample ID:	FA24564-13F	**Date Sampled:**	05/21/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	35.2	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30296.D	1	06/02/15	WV	n/a	n/a	VI734
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	1.0	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	0.23	1.0	0.20	ug/l	J
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	6.1	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.27	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	1.3	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	0.92	1.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.3	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	1.2	2.0	0.31	ug/l	J
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-MW07		
Lab Sample ID:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	95%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside control limits.
(b) Associated ICV 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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682703.D	1	06/06/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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-MW07		
Lab Sample ID:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	32%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	65%		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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133879.D	1	06/01/15	EG	n/a	n/a	GCD5510
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.233	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		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-MW07		
Lab Sample ID:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3949.D	1	06/03/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.298	0.19	0.077	mg/l	
	TPH (> C22-C36)	ND	0.19	0.077	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	116 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	612	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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:	FA24564-14	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	5.3 U	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	0.63 J	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 15:57	LM	SM3500FE B-11
Iron, Ferrous [b]	0.093 J	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.14	0.10	0.030	mg/l	1	06/05/15 15:15	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.2	1.0	0.50	mg/l	10	05/22/15 20:59	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.82	0.53	0.17	mg/l	1	06/01/15 17:27	DM	EPA 351.2
Solids, Total Dissolved	2730	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1720	50	15	mg/l	25	05/27/15 04:32	VK	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-MW07		
Lab Sample ID:	FA24564-14F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	584	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I30297.D	1	06/02/15	WV	n/a	n/a	VI734
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	0.93	1.0	0.20	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether [a]	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	5.2	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.24	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	1.2	5.0	1.0	ug/l	J
103-65-1	n-Propylbenzene	0.81	1.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.1	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-05-4	Vinyl Acetate [b]	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	1.0	2.0	0.31	ug/l	J
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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated CCV outside control limits.
(b) Associated ICV 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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	L0682704.D	1	06/06/15	MV	05/27/15	OP56214	SL3669
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.48	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.48	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.48	ug/l	
	3&4-Methylphenol	ND	4.8	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.84	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	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.60	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	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.8	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.55	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	0.65	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.81	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.60	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.60	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.66	ug/l	

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

J = Indicates 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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.48	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.8	0.55	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.64	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.60	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	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	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.57	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	0.95	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.65	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	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.94	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.50	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	0.95	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.55	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.56	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.49	ug/l	
129-00-0	Pyrene	ND	4.8	0.52	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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

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

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

Report of Analysis

Client Sample ID:	SS17-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD133863.D	1	06/01/15	EG	n/a	n/a	GCD5510
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.260	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
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	WW3950.D	1	06/03/15	SJL	05/27/15	OP56215	GWW176
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.272	0.19	0.077	mg/l	
	TPH (> C22-C36)	ND	0.19	0.077	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 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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	106 J	300	17	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]
Manganese	557	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12428
(2) Prep QC Batch: MP28974

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-MW07A		
Lab Sample ID:	FA24564-15	**Date Sampled:**	05/20/15
Matrix:	AQ - Ground Water	**Date Received:**	05/22/15
		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	05/27/15 09:35	LE	SM5210 B-11
Chemical Oxygen Demand	7.1 J	20	5.3	mg/l	1	05/29/15 13:27	FN	SM5220 C-11
Hydrogen Sulfide	1.3	1.0	0.50	mg/l	1	05/27/15 13:00	LE	SM4500S2- F-11
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	05/27/15 16:01	LM	SM3500FE B-11
Iron, Ferrous [b]	0.062 J	0.10	0.030	mg/l	1	05/22/15 10:45	FN	SM3500FE B-11
Nitrogen, Ammonia	0.11	0.10	0.030	mg/l	1	06/03/15 13:06	JC	EPA 350.1
Nitrogen, Nitrate [c]	1.5	1.0	0.50	mg/l	10	05/22/15 21:15	VK	EPA 300/SW846 9056A
Nitrogen, Total Kjeldahl	0.72	0.53	0.17	mg/l	1	06/04/15 15:32	DM	EPA 351.2
Solids, Total Dissolved	2770	200	20	mg/l	1	05/27/15 12:20	KC	SM2540 C-11
Sulfate	1710	50	15	mg/l	25	05/27/15 04:49	VK	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-MW07A		
Lab Sample ID:	FA24564-15F	**Date Sampled:**	05/20/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/22/15
		Percent Solids:	n/a
Project:	Holloman AFB; SS17		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Manganese	526	15	1.0	ug/l	1	05/27/15	05/27/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12427
(2) Prep QC Batch: MP28973

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 1		
Lab Sample ID:	FA24564-16	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B105998.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30356.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 1		
Lab Sample ID:	FA24564-16	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 1		
Lab Sample ID:	FA24564-16	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 2		
Lab Sample ID:	FA24564-17	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B105999.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30357.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.24	1.0	0.20	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 2		
Lab Sample ID:	FA24564-17	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 2		
Lab Sample ID:	FA24564-17	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	79-125%
2037-26-5	Toluene-D8	102%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 3		
Lab Sample ID:	FA24564-18	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106000.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30358.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 3		
Lab Sample ID:	FA24564-18	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride [d]	0.51	2.0	0.50	ug/l	J
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	0.84	1.0	0.40	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 3		
Lab Sample ID:	FA24564-18	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	95%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(d) Associated CCV 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 4		
Lab Sample ID:	FA24564-19	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106001.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30359.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 4		
Lab Sample ID:	FA24564-19	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride [d]	0.67	2.0	0.50	ug/l	J
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	1.3	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 4		
Lab Sample ID:	FA24564-19	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	95%	79-125%
2037-26-5	Toluene-D8	102%	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	97%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(d) Associated CCV 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 5		
Lab Sample ID:	FA24564-20	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106002.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30360.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 5		
Lab Sample ID:	FA24564-20	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 5		
Lab Sample ID:	FA24564-20	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	93%	79-125%
2037-26-5	Toluene-D8	101%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	96%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 6		
Lab Sample ID:	FA24564-21	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106003.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30361.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 6		
Lab Sample ID:	FA24564-21	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 6		
Lab Sample ID:	FA24564-21	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	95%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	98%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 7		
Lab Sample ID:	FA24564-22	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106004.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30362.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 7		
Lab Sample ID:	FA24564-22	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	1.5	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 7		
Lab Sample ID:	FA24564-22	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	93%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 8		
Lab Sample ID:	FA24564-23	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106005.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30363.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 8		
Lab Sample ID:	FA24564-23	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 8		
Lab Sample ID:	FA24564-23	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	95%	79-125%
2037-26-5	Toluene-D8	102%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	97%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 9		
Lab Sample ID:	FA24564-24	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106006.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30364.D	1	06/03/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 9		
Lab Sample ID:	FA24564-24	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	1.4	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 9		
Lab Sample ID:	FA24564-24	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	95%	79-125%
2037-26-5	Toluene-D8	100%	97%	85-112%
460-00-4	4-Bromofluorobenzene	102%	97%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 10		
Lab Sample ID:	FA24564-25	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106007.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30365.D	1	06/03/15	WV	n/a	n/a	VI736

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 10		
Lab Sample ID:	FA24564-25	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride [c]	0.78	2.0	0.50	ug/l	J
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	4.3	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 10		
Lab Sample ID:	FA24564-25	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	97%	79-125%
2037-26-5	Toluene-D8	105%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	96%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Associated CCV 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 11		
Lab Sample ID:	FA24564-26	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106008.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30366.D	1	06/03/15	WV	n/a	n/a	VI736

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 11		
Lab Sample ID:	FA24564-26	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride [c]	0.71	2.0	0.50	ug/l	J
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	0.86	1.0	0.40	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 11		
Lab Sample ID:	FA24564-26	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	94%	79-125%
2037-26-5	Toluene-D8	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	103%	97%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Associated CCV 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 12		
Lab Sample ID:	FA24564-27	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106009.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30367.D	1	06/04/15	WV	n/a	n/a	VI736

	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 [c]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 12		
Lab Sample ID:	FA24564-27	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 12		
Lab Sample ID:	FA24564-27	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	94%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.
(c) Sample vial(s) contained significant headspace; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 13		
Lab Sample ID:	FA24564-28	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106010.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30368.D	1	06/04/15	WV	n/a	n/a	VI736

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 13		
Lab Sample ID:	FA24564-28	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 13		
Lab Sample ID:	FA24564-28	**Date Sampled:**	05/21/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	79-125%
2037-26-5	Toluene-D8	101%	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	98%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 14		
Lab Sample ID:	FA24564-29	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106011.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30369.D	1	06/04/15	WV	n/a	n/a	VI736

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 14		
Lab Sample ID:	FA24564-29	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 14		
Lab Sample ID:	FA24564-29	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	79-125%
2037-26-5	Toluene-D8	100%	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	98%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK 15		
Lab Sample ID:	FA24564-30	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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]	B106012.D	1	06/05/15	WV	n/a	n/a	VB4294
Run #2 [b]	I30370.D	1	06/04/15	WV	n/a	n/a	VI736

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	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 15		
Lab Sample ID:	FA24564-30	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	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 15		
Lab Sample ID:	FA24564-30	**Date Sampled:**	05/20/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/22/15
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%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	93%	79-125%
2037-26-5	Toluene-D8	103%	101%	85-112%
460-00-4	4-Bromofluorobenzene	105%	98%	83-118%

(a) Sample re-analyzed beyond hold time due to QC failure in original analysis; reported results are considered minimum values.
(b) Confirmation run.

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK SOIL		
Lab Sample ID:	FA24564-31	**Date Sampled:**	05/20/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069852.D	1	05/22/15	EP	n/a	n/a	VF2396
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	13	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	8.5	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	
75-15-0	Carbon Disulfide	ND	5.0	1.5	ug/kg	
56-23-5	Carbon Tetrachloride	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	2.0	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	10	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	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	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK SOIL		
Lab Sample ID:	FA24564-31	**Date Sampled:**	05/20/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	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	
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	ug/kg	
591-78-6	2-Hexanone	ND	25	8.2	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	
74-83-9	Methyl Bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.2	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	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	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	
108-05-4	Vinyl Acetate	ND	25	12	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.6	ug/kg	
	m,p-Xylene	ND	10	1.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK SOIL		
Lab Sample ID:	FA24564-31	**Date Sampled:**	05/20/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/22/15
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%		75-124%
17060-07-0	1,2-Dichloroethane-D4	99%		72-135%
2037-26-5	Toluene-D8	95%		75-126%
460-00-4	4-Bromofluorobenzene	107%		71-133%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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

FA24564

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 05212015
LIMS Number:

Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: K Fuller / S Harrison

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military)	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-MW03	SS17-MW03	20-May-15	0730	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								1
SS17-MW05	SS17-MW05	20-May-15	0800	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								2
SS17-MW05a	SS17-MW05a	20-May-15	0800	-	FD		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								3
SS17-MW21	SS17-MW21	20-May-15	0910	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								4
SS17-MW06	SS17-MW06	20-May-15	1130	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								5
SS17-MW08	SS17-MW08	20-May-15	1145	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								6
SS17-MWBX01	SS17-MWBX01	20-May-15	1245	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								7
SS17-MW20	SS17-MW20	20-May-15	1320	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								8
SS17-MW18	SS17-MW18	21-May-15	1000	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								9
SS17-MW04	SS17-MW04	21-May-15	1115	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								10
SS17-MW19	SS17-MW19	21-May-15	1120	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								11
SS17-MW16	SS17-MW16	21-May-15	1240	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								12
SS17-MW14	SS17-MW14	21-May-15	1250	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								13
SS17-MW07	SS17-MW07a	20-May-15	0940	-	N		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								14
SS17-MW07a	SS17-MW07a	20-May-15	0940	-	FD		WG	18	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒								15

COMMENTS:

Send results to: tlucero@nationview.net,

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tom	5212015		1. FX		09:15
2. FX			2. J. Cooper (ABN)	5-22-15	
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:
Delivery Location: Orlando FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0 2.8 3.2 3.4 2.6 3.2 3.0 3.4 3.6 2.8
2.8 2.6 3.0 3.2 2.8

4.1
4

FA24564: Chain of Custody
Page 1 of 5

NATIONVIEW

FA 24564

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 11.0019
COC Number(1): 05212015
LIMS Number:

Facility/Base I.D.: HAFB, New Mexico
Project/Site Name: SS-17
Client Name: Holloman AFB
Collected by: K Fuller / S Harrison

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)			
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																16	1
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																17	2
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																18	3
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																19	4
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																20	5
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																21	6
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																22	7
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																23	8
TRIP BLANK	Field QC	21-May-15		-	TB		AQ	1	m																24	9
TRIP BLANK	Field QC	21-May-15		-	TB		AQ	1	m																25	10
TRIP BLANK	Field QC	21-May-15		-	TB		AQ	1	m																26	11
TRIP BLANK	Field QC	21-May-15		-	TB		AQ	1	m																27	12
TRIP BLANK	Field QC	21-May-15		-	TB		AQ	1	m																28	13
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																29	14
TRIP BLANK	Field QC	20-May-15		-	TB		AQ	1	m																30	15

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	5212015		1. FX		09:15
2. FX			2. J. Cooper (ALSK)	5-22-15	
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:
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

FA24564: Chain of Custody
Page 2 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 24564 CLIENT: NATIONVIEW PROJECT: SS-17

DATE/TIME RECEIVED: 5-22-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 15

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

AIRBILL NUMBERS: 7736 5777 1090

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 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2 3.0 3.4 3.6 2.8 3.4 3.2 3.6 3.8 3.0 3.0 2.8 3.2 3.4 3.1
- [ ] CORRECTED TEMPS: 3.0 2.8 3.2 3.4 2.6 3.2 3.0 3.4 3.6 2.8 2.8 2.6 3.0 3.2 2.8

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 15
- [X] 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
- [ ] 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 LOT#

{APPLICABLE 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 ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: RECEIVED 1 SOIL TB; WILL BE SAMPLE 31; DRO AMBERS ON 250 ml BOTTLES SAMPLES 1-4 RECEIVED OUT OF HOLD; TB 16-26 BOTH VIALS HAVE MACRO BUBBLES 1 VIAL BROKEN ON THE PROCESS FOR SAMPLE #27

TECHNICIAN SIGNATURE/DATE JC 5-22-15 REVIEWER SIGNATURE/DATE Jay Tee 5-22-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA24564: Chain of Custody
Page 3 of 5

From: (575) 921-1898
Tony Lucero
NATIONWIDE
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15124022300sv

Ship Date: 21MAY15
Act/Wgt: 40.0 LB
CAD: 106026631/INET3610

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 14

TRK# 7736 5777 1090

0201

MASTER

XH TIXA

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

32811
FL-US
MCO

537JXGH6E49

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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.

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1205 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J15121002300uv

Ship Date: 21MAY15
Act/Wgt: 40.0 LB
CAD: 106026931/INET3610

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

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5875 9361
0201

XH TIXA

32811
FL-US
MCO

537JMCH1/EEKB

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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.

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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-MB	F0069845.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	13	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	8.5	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	
75-15-0	Carbon Disulfide	ND	5.0	1.5	ug/kg	
56-23-5	Carbon Tetrachloride	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	2.0	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	10	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	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	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	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	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-MB	F0069845.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	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	
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	ug/kg	
591-78-6	2-Hexanone	ND	25	8.2	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	
74-83-9	Methyl Bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.2	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	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	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	
108-05-4	Vinyl Acetate	ND	25	12	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.6	ug/kg	
	m,p-Xylene	ND	10	1.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-MB	F0069845.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	75-124%
17060-07-0	1,2-Dichloroethane-D4	98%	72-135%
2037-26-5	Toluene-D8	101%	75-126%
460-00-4	4-Bromofluorobenzene	105%	71-133%

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-MB	I30285.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-MB	I30285.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-MB	I30285.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	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%

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-MB	B105962.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-MB	B105962.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-MB	B105962.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-MB	B105992.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.27	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.22	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.20	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-MB	B105992.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	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	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	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	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.31	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-MB	B105992.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-BS	F0069844.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	227	91	61-152
107-02-8	Acrolein	250	259	104	48-178
107-13-1	Acrylonitrile	250	242	97	66-134
71-43-2	Benzene	50	51.9	104	76-126
108-86-1	Bromobenzene	50	51.0	102	76-122
74-97-5	Bromochloromethane	50	52.8	106	77-120
75-27-4	Bromodichloromethane	50	51.6	103	74-130
75-25-2	Bromoform	50	52.7	105	76-127
78-93-3	2-Butanone (MEK)	250	233	93	75-137
104-51-8	n-Butylbenzene	50	51.1	102	71-128
135-98-8	sec-Butylbenzene	50	52.7	105	79-135
98-06-6	tert-Butylbenzene	50	52.2	104	77-133
75-15-0	Carbon Disulfide	50	52.6	105	72-122
56-23-5	Carbon Tetrachloride	50	52.5	105	78-133
108-90-7	Chlorobenzene	50	51.8	104	81-129
75-00-3	Chloroethane	50	45.0	90	68-133
110-75-8	2-Chloroethyl Vinyl Ether	250	232	93	45-159
67-66-3	Chloroform	50	51.6	103	72-123
95-49-8	o-Chlorotoluene	50	51.7	103	77-129
106-43-4	p-Chlorotoluene	50	50.9	102	80-134
124-48-1	Dibromochloromethane	50	52.3	105	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	47.4	95	70-137
106-93-4	1,2-Dibromoethane	50	50.1	100	77-126
75-71-8	Dichlorodifluoromethane	50	44.4	89	68-168
95-50-1	1,2-Dichlorobenzene	50	51.8	104	80-129
541-73-1	1,3-Dichlorobenzene	50	52.8	106	81-129
106-46-7	1,4-Dichlorobenzene	50	51.7	103	76-130
75-34-3	1,1-Dichloroethane	50	51.8	104	73-125
107-06-2	1,2-Dichloroethane	50	47.4	95	74-128
75-35-4	1,1-Dichloroethylene	50	49.3	99	81-136
156-59-2	cis-1,2-Dichloroethylene	50	50.7	101	74-126
156-60-5	trans-1,2-Dichloroethylene	50	55.5	111	70-127
78-87-5	1,2-Dichloropropane	50	51.1	102	74-125
142-28-9	1,3-Dichloropropane	50	48.6	97	76-122
594-20-7	2,2-Dichloropropane	50	56.3	113	77-133
563-58-6	1,1-Dichloropropene	50	52.9	106	75-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-BS	F0069844.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	52.7	105	80-123
10061-02-6	trans-1,3-Dichloropropene	50	55.5	111	75-131
100-41-4	Ethylbenzene	50	51.5	103	77-123
87-68-3	Hexachlorobutadiene	50	53.3	107	74-136
591-78-6	2-Hexanone	250	233	93	72-133
98-82-8	Isopropylbenzene	50	52.6	105	80-136
99-87-6	p-Isopropyltoluene	50	52.1	104	77-131
74-83-9	Methyl Bromide	50	43.4	87	65-139
74-87-3	Methyl Chloride	50	44.1	88	71-144
74-95-3	Methylene Bromide	50	49.4	99	74-124
75-09-2	Methylene Chloride	50	54.7	109	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	235	94	76-132
1634-04-4	Methyl Tert Butyl Ether	50	52.4	105	77-120
91-20-3	Naphthalene	50	54.5	109	79-129
103-65-1	n-Propylbenzene	50	53.0	106	80-135
100-42-5	Styrene	50	51.0	102	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	54.3	109	78-126
79-34-5	1,1,2,2-Tetrachloroethane	50	48.4	97	71-126
127-18-4	Tetrachloroethylene	50	52.4	105	79-130
108-88-3	Toluene	50	51.5	103	76-124
87-61-6	1,2,3-Trichlorobenzene	50	51.6	103	77-128
120-82-1	1,2,4-Trichlorobenzene	50	52.7	105	78-130
71-55-6	1,1,1-Trichloroethane	50	50.7	101	70-129
79-00-5	1,1,2-Trichloroethane	50	49.4	99	74-124
79-01-6	Trichloroethylene	50	52.0	104	75-128
75-69-4	Trichlorofluoromethane	50	47.0	94	73-145
96-18-4	1,2,3-Trichloropropane	50	49.0	98	74-127
95-63-6	1,2,4-Trimethylbenzene	50	51.7	103	74-123
108-67-8	1,3,5-Trimethylbenzene	50	52.0	104	73-122
108-05-4	Vinyl Acetate	250	262	105	48-164
75-01-4	Vinyl Chloride	50	44.2	88	76-141
	m,p-Xylene	100	106	106	80-128
95-47-6	o-Xylene	50	52.1	104	80-132

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2396-BS	F0069844.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	75-124%
17060-07-0	1,2-Dichloroethane-D4	90%	72-135%
2037-26-5	Toluene-D8	102%	75-126%
460-00-4	4-Bromofluorobenzene	100%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-BS	I30283.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	145	116	50-147
107-02-8	Acrolein	125	125	100	31-154
107-13-1	Acrylonitrile	125	136	109	58-126
71-43-2	Benzene	25	27.0	108	81-122
108-86-1	Bromobenzene	25	25.0	100	80-121
74-97-5	Bromochloromethane	25	26.5	106	76-123
75-27-4	Bromodichloromethane	25	27.0	108	79-123
75-25-2	Bromoform	25	23.5	94	66-123
78-93-3	2-Butanone (MEK)	125	122	98	56-143
104-51-8	n-Butylbenzene	25	30.4	122	79-126
135-98-8	sec-Butylbenzene	25	29.5	118	83-133
98-06-6	tert-Butylbenzene	25	27.9	112	80-133
75-15-0	Carbon Disulfide	25	31.4	126	66-148
56-23-5	Carbon Tetrachloride	25	30.0	120	76-136
108-90-7	Chlorobenzene	25	26.4	106	82-124
75-00-3	Chloroethane	25	24.7	99	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	91.8	73	56-122
67-66-3	Chloroform	25	26.8	107	80-124
95-49-8	o-Chlorotoluene	25	27.1	108	81-127
106-43-4	p-Chlorotoluene	25	26.1	104	83-130
124-48-1	Dibromochloromethane	25	24.0	96	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.5	102	64-123
106-93-4	1,2-Dibromoethane	25	25.2	101	75-120
75-71-8	Dichlorodifluoromethane	25	24.8	99	42-167
95-50-1	1,2-Dichlorobenzene	25	26.3	105	82-124
541-73-1	1,3-Dichlorobenzene	25	26.7	107	84-125
106-46-7	1,4-Dichlorobenzene	25	26.1	104	78-120
75-34-3	1,1-Dichloroethane	25	28.5	114	81-122
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
75-35-4	1,1-Dichloroethylene	25	33.7	135	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.6	102	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.4	118	76-127
78-87-5	1,2-Dichloropropane	25	27.0	108	76-124
142-28-9	1,3-Dichloropropane	25	24.2	97	80-118
594-20-7	2,2-Dichloropropane	25	31.3	125	74-139
563-58-6	1,1-Dichloropropene	25	28.2	113	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-BS	I30283.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	80-120
100-41-4	Ethylbenzene	25	27.5	110	81-121
87-68-3	Hexachlorobutadiene	25	30.8	123	75-142
591-78-6	2-Hexanone	125	132	106	61-129
98-82-8	Isopropylbenzene	25	29.2	117	83-132
99-87-6	p-Isopropyltoluene	25	29.2	117	79-130
74-83-9	Methyl Bromide	25	27.4	110	59-143
74-87-3	Methyl Chloride	25	25.8	103	50-159
74-95-3	Methylene Bromide	25	26.3	105	78-119
75-09-2	Methylene Chloride	25	31.8	127	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	131	105	66-122
1634-04-4	Methyl Tert Butyl Ether	25	26.6	106	72-117
91-20-3	Naphthalene	25	28.1	112	63-132
103-65-1	n-Propylbenzene	25	28.8	115	82-133
100-42-5	Styrene	25	26.5	106	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	28.4	114	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	24.5	98	72-120
127-18-4	Tetrachloroethylene	25	27.7	111	76-135
108-88-3	Toluene	25	26.7	107	80-120
87-61-6	1,2,3-Trichlorobenzene	25	30.2	121	68-131
120-82-1	1,2,4-Trichlorobenzene	25	28.7	115	73-129
71-55-6	1,1,1-Trichloroethane	25	28.3	113	75-130
79-00-5	1,1,2-Trichloroethane	25	25.4	102	76-119
79-01-6	Trichloroethylene	25	26.8	107	81-126
75-69-4	Trichlorofluoromethane	25	30.1	120	71-156
96-18-4	1,2,3-Trichloropropane	25	25.3	101	77-120
95-63-6	1,2,4-Trimethylbenzene	25	27.8	111	79-120
108-67-8	1,3,5-Trimethylbenzene	25	27.3	109	79-120
108-05-4	Vinyl Acetate	125	76.3	61	43-154
75-01-4	Vinyl Chloride	25	28.3	113	69-159
	m,p-Xylene	50	54.8	110	79-126
95-47-6	o-Xylene	25	27.8	111	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI734-BS	I30283.D	1	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	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	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-BS	B105960.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	50-147
107-02-8	Acrolein	125	103	82	31-154
107-13-1	Acrylonitrile	125	112	90	58-126
71-43-2	Benzene	25	24.3	97	81-122
108-86-1	Bromobenzene	25	22.5	90	80-121
74-97-5	Bromochloromethane	25	22.5	90	76-123
75-27-4	Bromodichloromethane	25	23.2	93	79-123
75-25-2	Bromoform	25	22.6	90	66-123
78-93-3	2-Butanone (MEK)	125	111	89	56-143
104-51-8	n-Butylbenzene	25	25.5	102	79-126
135-98-8	sec-Butylbenzene	25	25.5	102	83-133
98-06-6	tert-Butylbenzene	25	24.1	96	80-133
75-15-0	Carbon Disulfide	25	23.4	94	66-148
56-23-5	Carbon Tetrachloride	25	24.7	99	76-136
108-90-7	Chlorobenzene	25	23.8	95	82-124
75-00-3	Chloroethane	25	25.2	101	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	104	83	56-122
67-66-3	Chloroform	25	23.5	94	80-124
95-49-8	o-Chlorotoluene	25	24.8	99	81-127
106-43-4	p-Chlorotoluene	25	24.5	98	83-130
124-48-1	Dibromochloromethane	25	22.9	92	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.2	77	64-123
106-93-4	1,2-Dibromoethane	25	21.8	87	75-120
75-71-8	Dichlorodifluoromethane	25	21.7	87	42-167
95-50-1	1,2-Dichlorobenzene	25	23.7	95	82-124
541-73-1	1,3-Dichlorobenzene	25	24.4	98	84-125
106-46-7	1,4-Dichlorobenzene	25	23.1	92	78-120
75-34-3	1,1-Dichloroethane	25	24.9	100	81-122
107-06-2	1,2-Dichloroethane	25	22.0	88	75-125
75-35-4	1,1-Dichloroethylene	25	27.3	109	78-137
156-59-2	cis-1,2-Dichloroethylene	25	22.5	90	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	22.5	90	76-124
142-28-9	1,3-Dichloropropane	25	21.0	84	80-118
594-20-7	2,2-Dichloropropane	25	26.5	106	74-139
563-58-6	1,1-Dichloropropene	25	24.5	98	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-BS	B105960.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	80-120
100-41-4	Ethylbenzene	25	24.5	98	81-121
87-68-3	Hexachlorobutadiene	25	22.6	90	75-142
591-78-6	2-Hexanone	125	109	87	61-129
98-82-8	Isopropylbenzene	25	24.6	98	83-132
99-87-6	p-Isopropyltoluene	25	24.5	98	79-130
74-83-9	Methyl Bromide	25	28.3	113	59-143
74-87-3	Methyl Chloride	25	26.0	104	50-159
74-95-3	Methylene Bromide	25	22.8	91	78-119
75-09-2	Methylene Chloride	25	26.0	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	112	90	66-122
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	72-117
91-20-3	Naphthalene	25	23.6	94	63-132
103-65-1	n-Propylbenzene	25	25.6	102	82-133
100-42-5	Styrene	25	24.9	100	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	23.7	95	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	21.5	86	72-120
127-18-4	Tetrachloroethylene	25	24.3	97	76-135
108-88-3	Toluene	25	23.0	92	80-120
87-61-6	1,2,3-Trichlorobenzene	25	22.3	89	68-131
120-82-1	1,2,4-Trichlorobenzene	25	22.1	88	73-129
71-55-6	1,1,1-Trichloroethane	25	23.2	93	75-130
79-00-5	1,1,2-Trichloroethane	25	22.1	88	76-119
79-01-6	Trichloroethylene	25	22.8	91	81-126
75-69-4	Trichlorofluoromethane	25	26.7	107	71-156
96-18-4	1,2,3-Trichloropropane	25	21.7	87	77-120
95-63-6	1,2,4-Trimethylbenzene	25	24.1	96	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.6	98	79-120
108-05-4	Vinyl Acetate	125	90.6	72	43-154
75-01-4	Vinyl Chloride	25	24.7	99	69-159
	m,p-Xylene	50	51.0	102	79-126
95-47-6	o-Xylene	25	25.7	103	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4293-BS	B105960.D	1	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-BS	B105990.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	131	105	50-147
107-02-8	Acrolein	125	104	83	31-154
107-13-1	Acrylonitrile	125	122	98	58-126
71-43-2	Benzene	25	24.6	98	81-122
108-86-1	Bromobenzene	25	23.0	92	80-121
74-97-5	Bromochloromethane	25	22.7	91	76-123
75-27-4	Bromodichloromethane	25	24.3	97	79-123
75-25-2	Bromoform	25	24.4	98	66-123
78-93-3	2-Butanone (MEK)	125	119	95	56-143
104-51-8	n-Butylbenzene	25	26.1	104	79-126
135-98-8	sec-Butylbenzene	25	25.7	103	83-133
98-06-6	tert-Butylbenzene	25	25.9	104	80-133
75-15-0	Carbon Disulfide	25	24.1	96	66-148
56-23-5	Carbon Tetrachloride	25	26.1	104	76-136
108-90-7	Chlorobenzene	25	25.1	100	82-124
75-00-3	Chloroethane	25	30.1	120	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	103	82	56-122
67-66-3	Chloroform	25	23.7	95	80-124
95-49-8	o-Chlorotoluene	25	24.7	99	81-127
106-43-4	p-Chlorotoluene	25	24.3	97	83-130
124-48-1	Dibromochloromethane	25	24.6	98	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.6	78	64-123
106-93-4	1,2-Dibromoethane	25	23.0	92	75-120
75-71-8	Dichlorodifluoromethane	25	23.9	96	42-167
95-50-1	1,2-Dichlorobenzene	25	24.3	97	82-124
541-73-1	1,3-Dichlorobenzene	25	25.3	101	84-125
106-46-7	1,4-Dichlorobenzene	25	23.6	94	78-120
75-34-3	1,1-Dichloroethane	25	25.9	104	81-122
107-06-2	1,2-Dichloroethane	25	22.3	89	75-125
75-35-4	1,1-Dichloroethylene	25	27.9	112	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.1	92	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	23.4	94	76-124
142-28-9	1,3-Dichloropropane	25	23.0	92	80-118
594-20-7	2,2-Dichloropropane	25	27.3	109	74-139
563-58-6	1,1-Dichloropropene	25	25.4	102	79-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-BS	B105990.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.6	106	80-120
100-41-4	Ethylbenzene	25	26.0	104	81-121
87-68-3	Hexachlorobutadiene	25	23.4	94	75-142
591-78-6	2-Hexanone	125	121	97	61-129
98-82-8	Isopropylbenzene	25	25.3	101	83-132
99-87-6	p-Isopropyltoluene	25	25.4	102	79-130
74-83-9	Methyl Bromide	25	34.4	138	59-143
74-87-3	Methyl Chloride	25	31.0	124	50-159
74-95-3	Methylene Bromide	25	24.0	96	78-119
75-09-2	Methylene Chloride	25	27.3	109	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	119	95	66-122
1634-04-4	Methyl Tert Butyl Ether	25	22.8	91	72-117
91-20-3	Naphthalene	25	23.9	96	63-132
103-65-1	n-Propylbenzene	25	26.0	104	82-133
100-42-5	Styrene	25	25.6	102	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.8	103	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	21.7	87	72-120
127-18-4	Tetrachloroethylene	25	25.7	103	76-135
108-88-3	Toluene	25	24.8	99	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.0	92	68-131
120-82-1	1,2,4-Trichlorobenzene	25	22.0	88	73-129
71-55-6	1,1,1-Trichloroethane	25	24.5	98	75-130
79-00-5	1,1,2-Trichloroethane	25	23.3	93	76-119
79-01-6	Trichloroethylene	25	23.1	92	81-126
75-69-4	Trichlorofluoromethane	25	32.4	130	71-156
96-18-4	1,2,3-Trichloropropane	25	21.4	86	77-120
95-63-6	1,2,4-Trimethylbenzene	25	24.7	99	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.9	96	79-120
108-05-4	Vinyl Acetate	125	98.9	79	43-154
75-01-4	Vinyl Chloride	25	29.1	116	69-159
	m,p-Xylene	50	52.7	105	79-126
95-47-6	o-Xylene	25	26.4	106	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4294-BS	B105990.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24533-5MS	F0069848.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5MSD	F0069849.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069847.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069850.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	FA24533-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND [a]		205000	156000	76	205000	135000	66	14	61-152/27
107-02-8	Acrolein	ND [a]		205000	162000	79	205000	145000	71	11	48-178/37
107-13-1	Acrylonitrile	ND [a]		205000	173000	84	205000	159000	77	8	66-134/26
71-43-2	Benzene	ND [a]		41100	37900	92	41100	36700	89	3	76-126/26
108-86-1	Bromobenzene	ND [a]		41100	40800	99	41100	40400	98	1	76-122/32
74-97-5	Bromochloromethane	ND [a]		41100	41700	101	41100	42300	103	1	77-120/24
75-27-4	Bromodichloromethane	ND [a]		41100	39900	97	41100	38200	93	4	74-130/25
75-25-2	Bromoform	ND [a]		41100	42400	103	41100	42400	103	0	76-127/26
78-93-3	2-Butanone (MEK)	ND [a]		205000	164000	80	205000	143000	70*	14	75-137/25
104-51-8	n-Butylbenzene	4710 [a]	J	41100	41500	90	41100	38200	81	8	71-128/35
135-98-8	sec-Butylbenzene	ND [a]		41100	40100	98	41100	38400	93	4	79-135/34
98-06-6	tert-Butylbenzene	ND [a]		41100	35200	86	41100	34100	83	3	77-133/34
75-15-0	Carbon Disulfide	ND [a]		41100	33700	82	41100	32400	79	4	72-122/29
56-23-5	Carbon Tetrachloride	ND [a]		41100	37900	92	41100	36600	89	3	78-133/29
108-90-7	Chlorobenzene	ND [a]		41100	39500	96	41100	38900	95	2	81-129/29
75-00-3	Chloroethane	ND [a]		41100	28600	70	41100	26100	64*	9	68-133/29
110-75-8	2-Chloroethyl Vinyl Ether	ND [a]		205000	171000	83	205000	159000	77	7	45-159/26
67-66-3	Chloroform	ND [a]		41100	37700	92	41100	36100	88	4	72-123/26
95-49-8	o-Chlorotoluene	ND [a]		41100	42200	103	41100	40100	98	5	77-129/33
106-43-4	p-Chlorotoluene	ND [a]		41100	36800	90	41100	35100	85	5	80-134/33
124-48-1	Dibromochloromethane	ND [a]		41100	40100	98	41100	39500	96	2	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND [a]		41100	37400	91	41100	35100	85	6	70-137/29
106-93-4	1,2-Dibromoethane	ND [a]		41100	38100	93	41100	38200	93	0	77-126/26
75-71-8	Dichlorodifluoromethane	ND [a]		41100	26000	63*	41100	25600	62*	2	68-168/29
95-50-1	1,2-Dichlorobenzene	ND [a]		41100	39800	97	41100	39300	96	1	80-129/32
541-73-1	1,3-Dichlorobenzene	ND [a]		41100	40300	98	41100	40000	97	1	81-129/33
106-46-7	1,4-Dichlorobenzene	ND [a]		41100	40000	97	41100	39300	96	2	76-130/32
75-34-3	1,1-Dichloroethane	ND [a]		41100	36300	88	41100	34100	83	6	73-125/27
107-06-2	1,2-Dichloroethane	ND [a]		41100	36900	90	41100	35200	86	5	74-128/23
75-35-4	1,1-Dichloroethylene	ND [a]		41100	31700	77*	41100	30100	73*	5	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND [a]		41100	37900	92	41100	36600	89	3	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND [a]		41100	38000	92	41100	33400	81	13	70-127/27
78-87-5	1,2-Dichloropropane	ND [a]		41100	36500	89	41100	34100	83	7	74-125/25
142-28-9	1,3-Dichloropropane	ND [a]		41100	35800	87	41100	34500	84	4	76-122/26
594-20-7	2,2-Dichloropropane	ND [a]		41100	37500	91	41100	34600	84	8	77-133/28
563-58-6	1,1-Dichloropropene	ND [a]		41100	36000	88	41100	34100	83	5	75-130/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24533-5MS	F0069848.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5MSD	F0069849.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069847.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069850.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Compound	FA24533-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND [a]		41100	37300	91	41100	36400	89	2	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND [a]		41100	38900	95	41100	37200	91	4	75-131/28
100-41-4	Ethylbenzene	67100		41100	104000	90	41100	94600	67*	9	77-123/31
87-68-3	Hexachlorobutadiene	ND [a]		41100	39100	95	41100	40300	98	3	74-136/38
591-78-6	2-Hexanone	ND [a]		205000	163000	79	205000	144000	70*	12	72-133/26
98-82-8	Isopropylbenzene	8400 [a]	J	41100	48800	98	41100	46500	93	5	80-136/32
99-87-6	p-Isopropyltoluene	ND [a]		41100	40300	98	41100	39200	95	3	77-131/34
74-83-9	Methyl Bromide	ND [a]		41100	27900	68	41100	26100	64*	7	65-139/31
74-87-3	Methyl Chloride	ND [a]		41100	27100	66*	41100	24800	60*	9	71-144/27
74-95-3	Methylene Bromide	ND [a]		41100	37400	91	41100	36500	89	2	74-124/24
75-09-2	Methylene Chloride	ND [a]		41100	36900	90	41100	37100	90	1	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND [a]		205000	156000	76	205000	137000	67*	13	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND [a]		41100	40000	97	41100	38000	92	5	77-120/24
91-20-3	Naphthalene	33900		41100	73900	97	41100	67200	81	9	79-129/33
103-65-1	n-Propylbenzene	32500		41100	69000	89	41100	63500	75*	8	80-135/33
100-42-5	Styrene	ND [a]		41100	40300	98	41100	39500	96	2	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]		41100	40800	99	41100	41400	101	1	78-126/27
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]		41100	34700	84	41100	32700	80	6	71-126/30
127-18-4	Tetrachloroethylene	ND [a]		41100	40800	99	41100	41400	101	1	79-130/31
108-88-3	Toluene	90900		41100	126000	85	41100	115000	59* [b]	9	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND [a]		41100	43000	105	41100	41100	100	5	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND [a]		41100	42400	103	41100	42300	103	0	78-130/34
71-55-6	1,1,1-Trichloroethane	ND [a]		41100	36800	90	41100	35200	86	4	70-129/27
79-00-5	1,1,2-Trichloroethane	ND [a]		41100	39800	97	41100	37300	91	6	74-124/28
79-01-6	Trichloroethylene	ND [a]		41100	37600	91	41100	37000	90	2	75-128/27
75-69-4	Trichlorofluoromethane	ND [a]		41100	30700	75	41100	28700	70*	7	73-145/31
96-18-4	1,2,3-Trichloropropane	ND [a]		41100	35900	87	41100	34200	83	5	74-127/27
95-63-6	1,2,4-Trimethylbenzene	210000 [a]		41100	218000	19* [b]	41100	199000	-27* [b]	9	74-123/34
108-67-8	1,3,5-Trimethylbenzene	59300		41100	98500	95	41100	90600	76	8	73-122/33
108-05-4	Vinyl Acetate	ND [a]		205000	171000	83	205000	152000	74	12	48-164/37
75-01-4	Vinyl Chloride	ND [a]		41100	27400	67*	41100	25300	62*	8	76-141/27
	m,p-Xylene	252000		82200	291000	47* [b]	82200	267000	18* [b]	9	80-128/30
95-47-6	o-Xylene	129000		41100	166000	90	41100	149000	49* [b]	11	80-132/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24533-5MS	F0069848.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5MSD	F0069849.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069847.D	1	05/22/15	EP	n/a	n/a	VF2396
FA24533-5	F0069850.D	1	05/22/15	EP	n/a	n/a	VF2396

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-31

CAS No.	Surrogate Recoveries	MS	MSD	FA24533-5	FA24533-5	Limits
1868-53-7	Dibromofluoromethane	100%	99%	101%	99%	75-124%
17060-07-0	1,2-Dichloroethane-D4	88%	87%	102%	92%	72-135%
2037-26-5	Toluene-D8	99%	97%	101%	95%	75-126%
460-00-4	4-Bromofluorobenzene	106%	107%	104%	107%	71-133%

(a) Result is from Run #2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-6MS	I30311.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6MSD	I30312.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30293.D	50	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30310.D	100	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	FA24564-6 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		12500	15900	127	12500	15800	126	1	50-147/21
107-02-8	Acrolein	ND		12500	14100	113	12500	13000	104	8	31-154/29
107-13-1	Acrylonitrile	ND		12500	17900	143*	12500	19900	159*	11	58-126/16
71-43-2	Benzene	ND		2500	2950	118	2500	3010	120	2	81-122/14
108-86-1	Bromobenzene	ND		2500	2700	108	2500	2790	112	3	80-121/14
74-97-5	Bromochloromethane	ND		2500	2920	117	2500	2940	118	1	76-123/14
75-27-4	Bromodichloromethane	ND		2500	2840	114	2500	2870	115	1	79-123/19
75-25-2	Bromoform	ND		2500	2070	83	2500	2050	82	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		12500	14400	115	12500	15100	121	5	56-143/18
104-51-8	n-Butylbenzene	11.4	J	2500	3110	124	2500	3090	123	1	79-126/16
135-98-8	sec-Butylbenzene	10.9	J	2500	3110	124	2500	3160	126	2	83-133/16
98-06-6	tert-Butylbenzene	ND		2500	2940	118	2500	3070	123	4	80-133/16
75-15-0	Carbon Disulfide	35.7	J	2500	3230	128	2500	3250	129	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		2500	3190	128	2500	3070	123	4	76-136/23
108-90-7	Chlorobenzene	ND		2500	2900	116	2500	2890	116	0	82-124/14
75-00-3	Chloroethane	ND		2500	3090	124	2500	3110	124	1	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		12500	6900	55*	12500	6990	56	1	56-122/23
67-66-3	Chloroform	ND		2500	3010	120	2500	3000	120	0	80-124/15
95-49-8	o-Chlorotoluene	ND		2500	2970	119	2500	3080	123	4	81-127/15
106-43-4	p-Chlorotoluene	ND		2500	2800	112	2500	2900	116	4	83-130/15
124-48-1	Dibromochloromethane	ND		2500	2390	96	2500	2340	94	2	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2280	91	2500	2540	102	11	64-123/18
106-93-4	1,2-Dibromoethane	ND		2500	2630	105	2500	2770	111	5	75-120/13
75-71-8	Dichlorodifluoromethane	ND		2500	2990	120	2500	2960	118	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		2500	2740	110	2500	2840	114	4	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		2500	2820	113	2500	2880	115	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		2500	2770	111	2500	2820	113	2	78-120/15
75-34-3	1,1-Dichloroethane	ND		2500	3150	126*	2500	3190	128*	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		2500	2670	107	2500	2710	108	1	75-125/14
75-35-4	1,1-Dichloroethylene	ND		2500	3700	148*	2500	3600	144*	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		2500	2850	114	2500	2790	112	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		2500	3220	129*	2500	3190	128*	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		2500	2870	115	2500	2910	116	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		2500	2630	105	2500	2690	108	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		2500	3180	127	2500	3190	128	0	74-139/17
563-58-6	1,1-Dichloropropene	ND		2500	3080	123	2500	3100	124	1	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-6MS	I30311.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6MSD	I30312.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30293.D	50	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30310.D	100	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	FA24564-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		2500	2120	85	2500	2170	87	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		2500	2010	80	2500	2050	82	2	80-120/22
100-41-4	Ethylbenzene	4580 [a]		2500	8010	137*	2500	7920	134*	1	81-121/14
87-68-3	Hexachlorobutadiene	ND		2500	2940	118	2500	2960	118	1	75-142/19
591-78-6	2-Hexanone	ND		12500	15500	124	12500	16000	128	3	61-129/18
98-82-8	Isopropylbenzene	90.4		2500	3200	124	2500	3170	123	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		2500	3020	121	2500	3080	123	2	79-130/16
74-83-9	Methyl Bromide	ND		2500	3100	124	2500	2970	119	4	59-143/19
74-87-3	Methyl Chloride	ND		2500	2930	117	2500	2950	118	1	50-159/19
74-95-3	Methylene Bromide	ND		2500	2880	115	2500	2900	116	1	78-119/14
75-09-2	Methylene Chloride	ND		2500	3040	122	2500	3070	123	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		12500	15200	122	12500	15800	126*	4	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		2500	2860	114	2500	2970	119*	4	72-117/14
91-20-3	Naphthalene	317		2500	2720	96	2500	3220	116	17	63-132/25
103-65-1	n-Propylbenzene	286		2500	3320	121	2500	3400	125	2	82-133/15
100-42-5	Styrene	ND		2500	2870	115	2500	2860	114	0	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		2500	2940	118	2500	2890	116	2	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2620	105	2500	2770	111	6	72-120/14
127-18-4	Tetrachloroethylene	ND		2500	2990	120	2500	2920	117	2	76-135/16
108-88-3	Toluene	ND		2500	2840	114	2500	2840	114	0	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		2500	2400	96	2500	2770	111	14	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2640	106	2500	2810	112	6	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		2500	3110	124	2500	3090	124	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		2500	2730	109	2500	2710	108	1	76-119/14
79-01-6	Trichloroethylene	ND		2500	2930	117	2500	2920	117	0	81-126/15
75-69-4	Trichlorofluoromethane	ND		2500	3460	138	2500	3450	138	0	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		2500	2660	106	2500	2790	112	5	77-120/16
95-63-6	1,2,4-Trimethylbenzene	799		2500	3720	117	2500	3830	121*	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	176		2500	3070	116	2500	3150	119	3	79-120/19
108-05-4	Vinyl Acetate	ND		12500	9680	77	12500	10800	86	11	43-154/14
75-01-4	Vinyl Chloride	ND		2500	3300	132	2500	3310	132	0	69-159/18
	m,p-Xylene	4720		5000	10600	118	5000	10600	118	0	79-126/15
95-47-6	o-Xylene	16.5	J	2500	3000	119	2500	2970	118	1	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-6MS	I30311.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6MSD	I30312.D	100	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30293.D	50	06/02/15	WV	n/a	n/a	VI734
FA24564-6	I30310.D	100	06/02/15	WV	n/a	n/a	VI734

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries	MS	MSD	FA24564-6	FA24564-6	Limits
1868-53-7	Dibromofluoromethane	102%	103%	100%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	95%	93%	79-125%
2037-26-5	Toluene-D8	97%	97%	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	92%	98%	96%	97%	83-118%

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-10MS	B105983.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10MSD	B105984.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10	B105970.D	10	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	FA24564-10 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		1250	1380	110	1250	1150	92	18	50-147/21
107-02-8	Acrolein	ND		1250	1120	90	1250	1050	84	6	31-154/29
107-13-1	Acrylonitrile	ND		1250	1320	106	1250	1180	94	11	58-126/16
71-43-2	Benzene	124		250	382	103	250	210	34*	58*	81-122/14
108-86-1	Bromobenzene	ND		250	223	89	250	83.8	34*	91*	80-121/14
74-97-5	Bromochloromethane	ND		250	244	98	250	85.0	34*	97*	76-123/14
75-27-4	Bromodichloromethane	ND		250	240	96	250	77.2	31*	103*	79-123/19
75-25-2	Bromoform	ND		250	215	86	250	66.2	26*	106*	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1320	106	1250	1150	92	14	56-143/18
104-51-8	n-Butylbenzene	ND		250	249	100	250	83.0	33*	100*	79-126/16
135-98-8	sec-Butylbenzene	ND		250	252	101	250	83.3	33*	101*	83-133/16
98-06-6	tert-Butylbenzene	ND		250	239	96	250	82.2	33*	98*	80-133/16
75-15-0	Carbon Disulfide	ND		250	184	74	250	60.2	24*	101*	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	258	103	250	85.5	34*	100*	76-136/23
108-90-7	Chlorobenzene	ND		250	245	98	250	81.9	33*	100*	82-124/14
75-00-3	Chloroethane	ND		250	284	114	250	301	120	6	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		1250	ND	0*	1250	ND	0*	nc	56-122/23
67-66-3	Chloroform	ND		250	248	99	250	88.4	35*	95*	80-124/15
95-49-8	o-Chlorotoluene	ND		250	250	100	250	88.5	35*	95*	81-127/15
106-43-4	p-Chlorotoluene	ND		250	239	96	250	80.4	32*	99*	83-130/15
124-48-1	Dibromochloromethane	ND		250	223	89	250	74.4	30*	100*	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	199	80	250	69.1	28*	97*	64-123/18
106-93-4	1,2-Dibromoethane	ND		250	224	90	250	79.4	32*	95*	75-120/13
75-71-8	Dichlorodifluoromethane	ND		250	202	81	250	244	98	19	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		250	229	92	250	80.8	32*	96*	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		250	242	97	250	84.4	34*	97*	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		250	236	94	250	84.3	34*	95*	78-120/15
75-34-3	1,1-Dichloroethane	ND		250	261	104	250	93.0	37*	95*	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	236	94	250	85.0	34*	94*	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	255	102	250	90.9	36*	95*	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		250	236	94	250	85.0	34*	94*	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	263	105	250	93.0	37*	96*	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	244	98	250	79.2	32*	102*	76-124/14
142-28-9	1,3-Dichloropropane	ND		250	233	93	250	82.5	33*	95*	80-118/13
594-20-7	2,2-Dichloropropane	ND		250	247	99	250	85.4	34*	97*	74-139/17
563-58-6	1,1-Dichloropropene	ND		250	250	100	250	82.4	33*	101*	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-10MS	B105983.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10MSD	B105984.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10	B105970.D	10	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	FA24564-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	228	91	250	74.1	30*	102*	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	247	99	250	78.2	31*	104*	80-120/22
100-41-4	Ethylbenzene	94.8		250	345	100	250	177	33*	64*	81-121/14
87-68-3	Hexachlorobutadiene	ND		250	209	84	250	70.5	28*	99*	75-142/19
591-78-6	2-Hexanone	ND		1250	1240	99	1250	960	77	25*	61-129/18
98-82-8	Isopropylbenzene	ND		250	245	98	250	82.5	33*	99*	83-132/15
99-87-6	p-Isopropyltoluene	ND		250	250	100	250	78.1	31*	105*	79-130/16
74-83-9	Methyl Bromide	ND		250	289	116	250	299	120	3	59-143/19
74-87-3	Methyl Chloride	ND		250	301	120	250	313	125	4	50-159/19
74-95-3	Methylene Bromide	ND		250	243	97	250	87.5	35*	94*	78-119/14
75-09-2	Methylene Chloride	ND		250	275	110	250	99.5	40*	94*	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1260	101	1250	1000	80	23*	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		250	228	91	250	79.8	32*	96*	72-117/14
91-20-3	Naphthalene	ND		250	249	100	250	93.2	37*	91*	63-132/25
103-65-1	n-Propylbenzene	6.8	J	250	258	100	250	95.7	36*	92*	82-133/15
100-42-5	Styrene	ND		250	256	102	250	82.8	33*	102*	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	246	98	250	81.1	32*	101*	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	218	87	250	87.5	35*	85*	72-120/14
127-18-4	Tetrachloroethylene	ND		250	242	97	250	81.2	32*	100*	76-135/16
108-88-3	Toluene	530		250	718	75* [a]	250	562	13* [a]	24*	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	213	85	250	75.2	30*	96*	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		250	204	82	250	70.9	28*	97*	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		250	241	96	250	83.2	33*	97*	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	235	94	250	81.9	33*	97*	76-119/14
79-01-6	Trichloroethylene	ND		250	236	94	250	75.5	30*	103*	81-126/15
75-69-4	Trichlorofluoromethane	ND		250	328	131	250	335	134	2	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		250	229	92	250	90.3	36*	87*	77-120/16
95-63-6	1,2,4-Trimethylbenzene	44.4		250	292	99	250	133	35*	75*	79-120/18
108-67-8	1,3,5-Trimethylbenzene	12.9	J	250	256	97	250	95.6	33*	91*	79-120/19
108-05-4	Vinyl Acetate	ND		1250	1040	83	1250	796	64	27*	43-154/14
75-01-4	Vinyl Chloride	ND		250	269	108	250	290	116	8	69-159/18
	m,p-Xylene	272		500	810	108	500	425	31*	62*	79-126/15
95-47-6	o-Xylene	107		250	375	107	250	187	32*	67*	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24564-10MS	B105983.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10MSD	B105984.D	10	06/04/15	WV	n/a	n/a	VB4293
FA24564-10	B105970.D	10	06/04/15	WV	n/a	n/a	VB4293

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries	MS	MSD	FA24564-10	Limits
1868-53-7	Dibromofluoromethane	106%	102%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	96%	79-125%
2037-26-5	Toluene-D8	102%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	92%	100%	100%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24739-11MS	B106013.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11MSD	B106014.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11	B105993.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	FA24739-11 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		125	148	118	125	150	120	1	50-147/21
107-02-8	Acrolein	ND		125	78.7	63	125	80.1	64	2	31-154/29
107-13-1	Acrylonitrile	ND		125	117	94	125	128	102	9	58-126/16
71-43-2	Benzene	ND		25	25.1	100	25	24.0	96	4	81-122/14
108-86-1	Bromobenzene	ND		25	22.4	90	25	23.0	92	3	80-121/14
74-97-5	Bromochloromethane	ND		25	22.8	91	25	23.2	93	2	76-123/14
75-27-4	Bromodichloromethane	ND		25	22.1	88	25	22.0	88	0	79-123/19
75-25-2	Bromoform	ND		25	16.5	66	25	18.0	72	9	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	128	102	125	132	106	3	56-143/18
104-51-8	n-Butylbenzene	ND		25	27.3	109	25	26.5	106	3	79-126/16
135-98-8	sec-Butylbenzene	ND		25	26.5	106	25	26.5	106	0	83-133/16
98-06-6	tert-Butylbenzene	0.68	J	25	25.8	100	25	25.7	100	0	80-133/16
75-15-0	Carbon Disulfide	ND		25	20.8	83	25	20.2	81	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	25.8	103	25	24.4	98	6	76-136/23
108-90-7	Chlorobenzene	ND		25	23.4	94	25	23.8	95	2	82-124/14
75-00-3	Chloroethane	ND		25	28.6	114	25	23.8	95	18	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	ND		125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	ND		25	24.0	96	25	24.3	97	1	80-124/15
95-49-8	o-Chlorotoluene	ND		25	24.4	98	25	24.7	99	1	81-127/15
106-43-4	p-Chlorotoluene	ND		25	23.4	94	25	23.8	95	2	83-130/15
124-48-1	Dibromochloromethane	ND		25	19.0	76*	25	19.7	79	4	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	22.7	91	25	24.3	97	7	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	21.2	85	25	22.1	88	4	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	17.8	71	25	19.7	79	10	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	25.2	101	25	24.5	98	3	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	24.2	97	25	24.2	97	0	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	23.6	94	25	23.5	94	0	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	25.6	102	25	26.3	105	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	21.8	87	25	22.4	90	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	25.4	102	25	26.9	108	6	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.4	94	25	23.2	93	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.2	105	25	26.6	106	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	22.9	92	25	22.7	91	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	22.3	89	25	22.5	90	1	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	24.8	99	25	24.8	99	0	74-139/17
563-58-6	1,1-Dichloropropene	ND		25	24.6	98	25	24.7	99	0	79-131/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24739-11MS	B106013.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11MSD	B106014.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11	B105993.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Compound	FA24739-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.4	90	25	21.2	85	6	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.5	94	25	22.2	89	6	80-120/22
100-41-4	Ethylbenzene	ND		25	23.7	95	25	24.2	97	2	81-121/14
87-68-3	Hexachlorobutadiene	ND		25	24.7	99	25	24.8	99	0	75-142/19
591-78-6	2-Hexanone	ND		125	124	99	125	130	104	5	61-129/18
98-82-8	Isopropylbenzene	0.56	J	25	25.5	100	25	25.9	101	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	24.7	99	25	24.9	100	1	79-130/16
74-83-9	Methyl Bromide	ND		25	31.1	124	25	26.2	105	17	59-143/19
74-87-3	Methyl Chloride	ND		25	27.8	111	25	27.4	110	1	50-159/19
74-95-3	Methylene Bromide	ND		25	23.9	96	25	23.6	94	1	78-119/14
75-09-2	Methylene Chloride	ND		25	27.0	108	25	26.4	106	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	134	107	125	135	108	1	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.9	88	25	23.8	95	8	72-117/14
91-20-3	Naphthalene	ND		25	30.7	123	25	31.6	126	3	63-132/25
103-65-1	n-Propylbenzene	ND		25	25.7	103	25	26.1	104	2	82-133/15
100-42-5	Styrene	ND		25	18.9	76*	25	18.5	74*	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	22.8	91	25	23.2	93	2	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.5	90	25	22.6	90	0	72-120/14
127-18-4	Tetrachloroethylene	ND		25	23.5	94	25	23.4	94	0	76-135/16
108-88-3	Toluene	ND		25	22.9	92	25	22.5	90	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	26.2	105	25	27.2	109	4	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.8	99	25	25.8	103	4	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	23.8	95	25	23.9	96	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	22.0	88	25	21.7	87	1	76-119/14
79-01-6	Trichloroethylene	ND		25	22.7	91	25	22.6	90	0	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.3	125	25	30.2	121	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	22.7	91	25	23.2	93	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	0.37	J	25	24.7	97	25	24.9	98	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.4	94	25	22.8	91	3	79-120/19
108-05-4	Vinyl Acetate	ND		125	98.1	78	125	103	82	5	43-154/14
75-01-4	Vinyl Chloride	ND		25	25.4	102	25	26.0	104	2	69-159/18
	m,p-Xylene	ND		50	51.2	102	50	50.4	101	2	79-126/15
95-47-6	o-Xylene	ND		25	24.8	99	25	24.4	98	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24739-11MS	B106013.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11MSD	B106014.D	1	06/05/15	WV	n/a	n/a	VB4294
FA24739-11	B105993.D	1	06/05/15	WV	n/a	n/a	VB4294

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA24564-16, FA24564-17, FA24564-18, FA24564-19, FA24564-20, FA24564-21, FA24564-22, FA24564-23, FA24564-24, FA24564-25, FA24564-26, FA24564-27, FA24564-28, FA24564-29, FA24564-30

CAS No.	Surrogate Recoveries	MS	MSD	FA24739-11	Limits
1868-53-7	Dibromofluoromethane	100%	102%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	99%	95%	79-125%
2037-26-5	Toluene-D8	95%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	93%	94%	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MB	L0682692.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MB	L0682692.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MB	L0682692.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	14-67%
4165-62-2	Phenol-d5	26%	10-50%
118-79-6	2,4,6-Tribromophenol	68%	33-118%
4165-60-0	Nitrobenzene-d5	62%	42-108%
321-60-8	2-Fluorobiphenyl	63%	40-106%
1718-51-0	Terphenyl-d14	69%	39-121%

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	L0682585.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	L0682585.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	L0682585.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	14-67%
4165-62-2	Phenol-d5	32%	10-50%
118-79-6	2,4,6-Tribromophenol	103%	33-118%
4165-60-0	Nitrobenzene-d5	86%	42-108%
321-60-8	2-Fluorobiphenyl	86%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	X040245.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.50	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.50	ug/l	
	3&4-Methylphenol	ND	5.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.88	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	0.68	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.63	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	0.50	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.58	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	0.68	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.85	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.64	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.63	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	0.50	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.57	ug/l	
218-01-9	Chrysene	ND	5.0	0.51	ug/l	

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	X040245.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.68	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.52	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	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	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.69	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.60	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.63	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.60	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.68	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	0.51	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.53	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.99	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.52	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.59	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.51	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MB	X040245.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	14-67%
4165-62-2	Phenol-d5	29%	10-50%
118-79-6	2,4,6-Tribromophenol	85%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	75%	40-106%
1718-51-0	Terphenyl-d14	90%	39-121%

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-BS	L0682691.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	16.7	17	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	36.8	74	54-103
95-57-8	2-Chlorophenol	50	33.9	68	52-98
120-83-2	2,4-Dichlorophenol	50	36.5	73	53-103
105-67-9	2,4-Dimethylphenol	50	28.1	56	43-90
51-28-5	2,4-Dinitrophenol	100	74.0	74	44-112
534-52-1	4,6-Dinitro-o-cresol	100	93.5	94	66-121
95-48-7	2-Methylphenol	50	31.0	62	43-90
	3&4-Methylphenol	100	51.1	51	36-88
88-75-5	2-Nitrophenol	50	38.1	76	53-102
100-02-7	4-Nitrophenol	100	31.0	31	18-62
87-86-5	Pentachlorophenol	100	86.0	86	61-115
108-95-2	Phenol	50	15.4	31	19-56
95-95-4	2,4,5-Trichlorophenol	50	38.2	76	62-109
88-06-2	2,4,6-Trichlorophenol	50	38.4	77	59-107
83-32-9	Acenaphthene	50	38.6	77	61-107
208-96-8	Acenaphthylene	50	36.5	73	60-104
62-53-3	Aniline	50	33.0	66	47-100
120-12-7	Anthracene	50	40.2	80	65-108
92-87-5	Benzidine	50	31.7	63	25-99
56-55-3	Benzo(a)anthracene	50	40.5	81	66-111
50-32-8	Benzo(a)pyrene	50	40.8	82	62-107
205-99-2	Benzo(b)fluoranthene	50	40.1	80	65-114
191-24-2	Benzo(g,h,i)perylene	50	41.4	83	66-116
207-08-9	Benzo(k)fluoranthene	50	40.2	80	65-114
100-51-6	Benzyl Alcohol	50	31.7	63	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	39.3	79	65-109
85-68-7	Butyl Benzyl Phthalate	50	41.3	83	65-112
86-74-8	Carbazole	50	40.6	81	59-113
106-47-8	4-Chloroaniline	50	34.5	69	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	37.6	75	51-102
111-44-4	bis(2-Chloroethyl)ether	50	35.5	71	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	38.3	77	45-106
91-58-7	2-Chloronaphthalene	50	35.4	71	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	38.2	76	62-105
218-01-9	Chrysene	50	40.6	81	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-BS	L0682691.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	41.4	83	66-119
132-64-9	Dibenzofuran	50	36.1	72	61-106
95-50-1	1,2-Dichlorobenzene	50	34.5	69	48-97
541-73-1	1,3-Dichlorobenzene	50	33.5	67	45-95
106-46-7	1,4-Dichlorobenzene	50	34.3	69	45-98
91-94-1	3,3'-Dichlorobenzidine	50	37.1	74	46-117
84-66-2	Diethyl Phthalate	50	39.5	79	64-108
131-11-3	Dimethyl Phthalate	50	39.4	79	63-106
84-74-2	Di-n-butyl Phthalate	50	41.0	82	65-107
117-84-0	Di-n-octyl Phthalate	50	41.2	82	62-118
121-14-2	2,4-Dinitrotoluene	50	39.4	79	61-110
606-20-2	2,6-Dinitrotoluene	50	38.2	76	63-108
122-66-7	1,2-Diphenylhydrazine	50	40.2	80	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	40.8	82	61-117
206-44-0	Fluoranthene	50	40.0	80	63-106
86-73-7	Fluorene	50	37.0	74	62-108
118-74-1	Hexachlorobenzene	50	38.5	77	63-108
87-68-3	Hexachlorobutadiene	50	33.5	67	42-102
77-47-4	Hexachlorocyclopentadiene	50	34.4	69	39-102
67-72-1	Hexachloroethane	50	34.6	69	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.2	84	64-119
78-59-1	Isophorone	50	37.5	75	43-87
90-12-0	1-Methylnaphthalene	50	37.1	74	53-102
91-57-6	2-Methylnaphthalene	50	36.0	72	51-102
91-20-3	Naphthalene	50	31.6	63	47-100
88-74-4	2-Nitroaniline	50	45.6	91	54-128
99-09-2	3-Nitroaniline	50	37.8	76	56-106
100-01-6	4-Nitroaniline	50	40.5	81	55-120
98-95-3	Nitrobenzene	50	36.4	73	50-104
62-75-9	N-Nitrosodimethylamine	50	24.1	48	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	35.9	72	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.3	83	64-108
85-01-8	Phenanthrene	50	40.3	81	66-110
129-00-0	Pyrene	50	39.0	78	64-113
110-86-1	Pyridine	50	22.1	44	23-74
120-82-1	1,2,4-Trichlorobenzene	50	34.5	69	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-BS	L0682691.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	42%	14-67%
4165-62-2	Phenol-d5	28%	10-50%
118-79-6	2,4,6-Tribromophenol	77%	33-118%
4165-60-0	Nitrobenzene-d5	70%	42-108%
321-60-8	2-Fluorobiphenyl	69%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	L0682584.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	27.7	28	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	42.0	84	54-103
95-57-8	2-Chlorophenol	50	38.3	77	52-98
120-83-2	2,4-Dichlorophenol	50	41.2	82	53-103
105-67-9	2,4-Dimethylphenol	50	33.3	67	43-90
51-28-5	2,4-Dinitrophenol	100	79.0	79	44-112
534-52-1	4,6-Dinitro-o-cresol	100	98.8	99	66-121
95-48-7	2-Methylphenol	50	35.4	71	43-90
	3&4-Methylphenol	100	61.5	62	36-88
88-75-5	2-Nitrophenol	50	42.6	85	53-102
100-02-7	4-Nitrophenol	100	42.9	43	18-62
87-86-5	Pentachlorophenol	100	86.3	86	61-115
108-95-2	Phenol	50	19.7	39	19-56
95-95-4	2,4,5-Trichlorophenol	50	43.2	86	62-109
88-06-2	2,4,6-Trichlorophenol	50	42.4	85	59-107
83-32-9	Acenaphthene	50	43.3	87	61-107
208-96-8	Acenaphthylene	50	42.1	84	60-104
62-53-3	Aniline	50	37.9	76	47-100
120-12-7	Anthracene	50	44.7	89	65-108
92-87-5	Benzidine	50	24.4	49	25-99
56-55-3	Benzo(a)anthracene	50	44.4	89	66-111
50-32-8	Benzo(a)pyrene	50	45.3	91	62-107
205-99-2	Benzo(b)fluoranthene	50	44.5	89	65-114
191-24-2	Benzo(g,h,i)perylene	50	46.3	93	66-116
207-08-9	Benzo(k)fluoranthene	50	44.4	89	65-114
100-51-6	Benzyl Alcohol	50	37.7	75	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	44.6	89	65-109
85-68-7	Butyl Benzyl Phthalate	50	47.2	94	65-112
86-74-8	Carbazole	50	43.3	87	59-113
106-47-8	4-Chloroaniline	50	38.4	77	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	40.0	80	51-102
111-44-4	bis(2-Chloroethyl)ether	50	39.9	80	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	39.9	80	45-106
91-58-7	2-Chloronaphthalene	50	40.3	81	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	43.7	87	62-105
218-01-9	Chrysene	50	44.7	89	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	L0682584.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	44.0	88	66-119
132-64-9	Dibenzofuran	50	41.8	84	61-106
95-50-1	1,2-Dichlorobenzene	50	37.4	75	48-97
541-73-1	1,3-Dichlorobenzene	50	37.5	75	45-95
106-46-7	1,4-Dichlorobenzene	50	36.7	73	45-98
91-94-1	3,3'-Dichlorobenzidine	50	43.0	86	46-117
84-66-2	Diethyl Phthalate	50	44.4	89	64-108
131-11-3	Dimethyl Phthalate	50	43.7	87	63-106
84-74-2	Di-n-butyl Phthalate	50	43.4	87	65-107
117-84-0	Di-n-octyl Phthalate	50	48.6	97	62-118
121-14-2	2,4-Dinitrotoluene	50	45.8	92	61-110
606-20-2	2,6-Dinitrotoluene	50	42.5	85	63-108
122-66-7	1,2-Diphenylhydrazine	50	41.1	82	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	46.0	92	61-117
206-44-0	Fluoranthene	50	43.3	87	63-106
86-73-7	Fluorene	50	43.1	86	62-108
118-74-1	Hexachlorobenzene	50	42.3	85	63-108
87-68-3	Hexachlorobutadiene	50	38.1	76	42-102
77-47-4	Hexachlorocyclopentadiene	50	34.1	68	39-102
67-72-1	Hexachloroethane	50	36.9	74	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	47.0	94	64-119
78-59-1	Isophorone	50	39.9	80	43-87
90-12-0	1-Methylnaphthalene	50	41.1	82	53-102
91-57-6	2-Methylnaphthalene	50	40.5	81	51-102
91-20-3	Naphthalene	50	35.8	72	47-100
88-74-4	2-Nitroaniline	50	52.5	105	54-128
99-09-2	3-Nitroaniline	50	43.4	87	56-106
100-01-6	4-Nitroaniline	50	45.0	90	55-120
98-95-3	Nitrobenzene	50	39.2	78	50-104
62-75-9	N-Nitrosodimethylamine	50	29.5	59	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	39.9	80	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.7	83	64-108
85-01-8	Phenanthrene	50	43.2	86	66-110
129-00-0	Pyrene	50	43.7	87	64-113
110-86-1	Pyridine	50	26.7	53	23-74
120-82-1	1,2,4-Trichlorobenzene	50	38.3	77	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	L0682584.D	1	06/01/15	MV	05/28/15	OP56239	SL3665

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	14-67%
4165-62-2	Phenol-d5	38%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	33-118%
4165-60-0	Nitrobenzene-d5	80%	42-108%
321-60-8	2-Fluorobiphenyl	79%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	X040244.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	24.1	24	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	36.5	73	54-103
95-57-8	2-Chlorophenol	50	34.7	69	52-98
120-83-2	2,4-Dichlorophenol	50	36.6	73	53-103
105-67-9	2,4-Dimethylphenol	50	27.1	54	43-90
51-28-5	2,4-Dinitrophenol	100	70.8	71	44-112
534-52-1	4,6-Dinitro-o-cresol	100	82.6	83	66-121
95-48-7	2-Methylphenol	50	31.3	63	43-90
	3&4-Methylphenol	100	58.4	58	36-88
88-75-5	2-Nitrophenol	50	38.5	77	53-102
100-02-7	4-Nitrophenol	100	33.2	33	18-62
87-86-5	Pentachlorophenol	100	78.7	79	61-115
108-95-2	Phenol	50	17.2	34	19-56
95-95-4	2,4,5-Trichlorophenol	50	38.9	78	62-109
88-06-2	2,4,6-Trichlorophenol	50	39.1	78	59-107
83-32-9	Acenaphthene	50	39.2	78	61-107
208-96-8	Acenaphthylene	50	36.5	73	60-104
62-53-3	Aniline	50	33.5	67	47-100
120-12-7	Anthracene	50	37.9	76	65-108
92-87-5	Benzidine	50	14.9	30	25-99
56-55-3	Benzo(a)anthracene	50	38.5	77	66-111
50-32-8	Benzo(a)pyrene	50	38.1	76	62-107
205-99-2	Benzo(b)fluoranthene	50	39.1	78	65-114
191-24-2	Benzo(g,h,i)perylene	50	37.3	75	66-116
207-08-9	Benzo(k)fluoranthene	50	39.3	79	65-114
100-51-6	Benzyl Alcohol	50	32.4	65	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	38.7	77	65-109
85-68-7	Butyl Benzyl Phthalate	50	37.6	75	65-112
86-74-8	Carbazole	50	37.4	75	59-113
106-47-8	4-Chloroaniline	50	35.2	70	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	35.7	71	51-102
111-44-4	bis(2-Chloroethyl)ether	50	34.8	70	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	32.8	66	45-106
91-58-7	2-Chloronaphthalene	50	35.9	72	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	39.1	78	62-105
218-01-9	Chrysene	50	38.9	78	66-111

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	X040244.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	50	36.7	73	66-119
132-64-9	Dibenzofuran	50	37.8	76	61-106
95-50-1	1,2-Dichlorobenzene	50	32.5	65	48-97
541-73-1	1,3-Dichlorobenzene	50	32.9	66	45-95
106-46-7	1,4-Dichlorobenzene	50	33.2	66	45-98
91-94-1	3,3'-Dichlorobenzidine	50	32.6	65	46-117
84-66-2	Diethyl Phthalate	50	38.3	77	64-108
131-11-3	Dimethyl Phthalate	50	37.9	76	63-106
84-74-2	Di-n-butyl Phthalate	50	38.2	76	65-107
117-84-0	Di-n-octyl Phthalate	50	37.7	75	62-118
121-14-2	2,4-Dinitrotoluene	50	40.5	81	61-110
606-20-2	2,6-Dinitrotoluene	50	39.1	78	63-108
122-66-7	1,2-Diphenylhydrazine	50	36.2	72	61-110
117-81-7	bis(2-Ethylhexyl)phthalate	50	37.2	74	61-117
206-44-0	Fluoranthene	50	38.5	77	63-106
86-73-7	Fluorene	50	38.0	76	62-108
118-74-1	Hexachlorobenzene	50	38.7	77	63-108
87-68-3	Hexachlorobutadiene	50	34.6	69	42-102
77-47-4	Hexachlorocyclopentadiene	50	31.7	63	39-102
67-72-1	Hexachloroethane	50	30.4	61	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.5	77	64-119
78-59-1	Isophorone	50	35.1	70	43-87
90-12-0	1-Methylnaphthalene	50	37.8	76	53-102
91-57-6	2-Methylnaphthalene	50	36.2	72	51-102
91-20-3	Naphthalene	50	34.7	69	47-100
88-74-4	2-Nitroaniline	50	38.9	78	54-128
99-09-2	3-Nitroaniline	50	38.4	77	56-106
100-01-6	4-Nitroaniline	50	40.1	80	55-120
98-95-3	Nitrobenzene	50	34.1	68	50-104
62-75-9	N-Nitrosodimethylamine	50	22.1	44	28-78
621-64-7	N-Nitrosodi-n-propylamine	50	33.9	68	52-104
86-30-6	N-Nitrosodiphenylamine	50	36.3	73	64-108
85-01-8	Phenanthrene	50	38.0	76	66-110
129-00-0	Pyrene	50	37.7	75	64-113
110-86-1	Pyridine	50	22.7	45	23-74
120-82-1	1,2,4-Trichlorobenzene	50	34.7	69	45-97

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-BS	X040244.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-67%
4165-62-2	Phenol-d5	34%	10-50%
118-79-6	2,4,6-Tribromophenol	77%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	84%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MS	L0682695.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
OP56214-MSD	L0682696.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
FA24564-2	L0682694.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	FA24564-2 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	86.2	45	192	57.8	30	39	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	64.1	67	96.2	59.7	62	7	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	62.2	65	96.2	58.5	61	6	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	60.1	63	96.2	57.8	60	4	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	54.4	57	96.2	52.3	54	4	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	143	74	192	128	67	11	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	185	96	192	168	87	10	66-121/23
95-48-7	2-Methylphenol	ND		96.2	54.3	56	96.2	52.2	54	4	43-90/28
	3&4-Methylphenol	ND		192	105	55	192	102	53	3	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	61.5	64	96.2	59.6	62	3	53-102/29
100-02-7	4-Nitrophenol	ND		192	105	55	192	86.0	45	20	18-62/33
87-86-5	Pentachlorophenol	ND		192	176	92	192	159	83	10	61-115/26
108-95-2	Phenol	ND		96.2	41.2	43	96.2	36.4	38	12	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	72.9	76	96.2	69.5	72	5	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	70.4	73	96.2	68.8	72	2	59-107/23
83-32-9	Acenaphthene	0.96	J	96.2	74.7	77	96.2	73.3	75	2	61-107/22
208-96-8	Acenaphthylene	ND		96.2	62.9	65	96.2	60.2	63	4	60-104/22
62-53-3	Aniline	ND		96.2	59.0	61	96.2	56.4	59	5	47-100/30
120-12-7	Anthracene	ND		96.2	85.4	89	96.2	78.2	81	9	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	79.4	83	96.2	72.5	75	9	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	81.9	85	96.2	74.0	77	10	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	81.4	85	96.2	70.2	73	15	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	83.0	86	96.2	75.5	79	9	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	78.6	82	96.2	73.0	76	7	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	63.4	66	96.2	59.9	62	6	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	76.2	79	96.2	71.9	75	6	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	78.9	82	96.2	71.2	74	10	65-112/24
86-74-8	Carbazole	ND		96.2	82.9	86	96.2	75.9	79	9	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	53.2	55	96.2	51.8	54	3	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	60.4	63	96.2	57.8	60	4	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	63.2	66	96.2	59.5	62	6	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	64.9	67	96.2	61.9	64	5	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	66.1	69	96.2	64.9	67	2	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	73.7	77	96.2	69.1	72	6	62-105/20
218-01-9	Chrysene	ND		96.2	81.4	85	96.2	75.7	79	7	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	83.8	87	96.2	74.2	77	12	66-119/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MS	L0682695.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
OP56214-MSD	L0682696.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
FA24564-2	L0682694.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Compound	FA24564-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		96.2	70.1	73	96.2	69.0	72	2	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	53.2	55	96.2	51.1	53	4	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	60.2	63	96.2	55.5	58	8	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	61.6	64	96.2	56.7	59	8	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	67.2	70	96.2	60.6	63	10	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	79.5	83	96.2	73.5	76	8	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	75.4	78	96.2	71.7	75	5	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	85.1	89	96.2	78.2	81	8	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	80.2	83	96.2	71.9	75	11	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	77.0	80	96.2	72.5	75	6	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	76.1	79	96.2	71.5	74	6	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	83.1	86	96.2	74.4	77	11	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	2.4	J	96.2	87.2	88	96.2	80.6	81	8	61-117/23
206-44-0	Fluoranthene	ND		96.2	80.7	84	96.2	73.4	76	9	63-106/21
86-73-7	Fluorene	0.65	J	96.2	74.4	77	96.2	70.9	73	5	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	76.8	80	96.2	70.9	74	8	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	57.5	60	96.2	53.0	55	8	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	38.7	40	96.2	39.7	41	3	39-102/29
67-72-1	Hexachloroethane	ND		96.2	73.5	76	96.2	70.0	73	5	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	83.4	87	96.2	75.1	78	10	64-119/24
78-59-1	Isophorone	ND		96.2	61.0	63	96.2	60.4	63	1	43-87/25
90-12-0	1-Methylnaphthalene	28.5		96.2	88.6	63	96.2	90.4	64	2	53-102/27
91-57-6	2-Methylnaphthalene	8.2		96.2	63.6	58	96.2	63.2	57	1	51-102/26
91-20-3	Naphthalene	77.4		96.2	120	44*	96.2	126	51	5	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	87.8	91	96.2	83.2	87	5	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	64.0	67	96.2	60.6	63	5	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	72.9	76	96.2	68.7	71	6	55-120/24
98-95-3	Nitrobenzene	ND		96.2	61.6	64	96.2	59.3	62	4	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	50.7	53	96.2	45.3	47	11	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	60.0	62	96.2	60.0	62	0	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	86.2	90	96.2	79.0	82	9	64-108/23
85-01-8	Phenanthrene	ND		96.2	84.3	88	96.2	76.8	80	9	66-110/21
129-00-0	Pyrene	ND		96.2	77.0	80	96.2	70.7	74	9	64-113/23
110-86-1	Pyridine	ND		96.2	45.7	48	96.2	42.1	44	8	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	57.8	60	96.2	55.3	58	4	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56214-MS	L0682695.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
OP56214-MSD	L0682696.D	1	06/05/15	MV	05/27/15	OP56214	SL3669
FA24564-2	L0682694.D	1	06/05/15	MV	05/27/15	OP56214	SL3669

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15

CAS No.	Surrogate Recoveries	MS	MSD	FA24564-2	Limits
367-12-4	2-Fluorophenol	41%	37%	22%	14-67%
4165-62-2	Phenol-d5	40%	35%	27%	10-50%
118-79-6	2,4,6-Tribromophenol	81%	74%	64%	33-118%
4165-60-0	Nitrobenzene-d5	54%	52%	44%	42-108%
321-60-8	2-Fluorobiphenyl	66%	65%	52%	40-106%
1718-51-0	Terphenyl-d14	87%	79%	62%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MS	X040263.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
OP56239-MSD	X040264.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
FA24564-10	X040261.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	FA24564-10 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	71.5	37	192	73.7	38	3	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	74.8	78	96.2	67.0	70	11	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	65.6	68	96.2	59.6	62	10	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	72.3	75	96.2	64.4	67	12	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	57.6	60	96.2	49.1	51	16	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	144	75	192	133	69	8	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	167	87	192	152	79	9	66-121/23
95-48-7	2-Methylphenol	0.51	J	96.2	61.9	64	96.2	56.8	59	9	43-90/28
	3&4-Methylphenol	ND		192	119	62	192	112	58	6	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	75.4	78	96.2	65.4	68	14	53-102/29
100-02-7	4-Nitrophenol	ND		192	86.3	45	192	84.9	44	2	18-62/33
87-86-5	Pentachlorophenol	ND		192	171	89	192	150	78	13	61-115/26
108-95-2	Phenol	ND		96.2	37.5	39	96.2	39.0	41	4	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	83.2	87	96.2	70.8	74	16	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	78.6	82	96.2	69.0	72	13	59-107/23
83-32-9	Acenaphthene	ND		96.2	78.7	82	96.2	69.2	72	13	61-107/22
208-96-8	Acenaphthylene	ND		96.2	73.2	76	96.2	64.3	67	13	60-104/22
62-53-3	Aniline	ND		96.2	61.4	64	96.2	55.3	58	10	47-100/30
120-12-7	Anthracene	ND		96.2	80.9	84	96.2	71.2	74	13	65-108/20
92-87-5	Benzidine	ND		96.2	13.2	14*	96.2	13.4	14*	2	25-99/31
56-55-3	Benzo(a)anthracene	ND		96.2	79.8	83	96.2	71.0	74	12	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	82.4	86	96.2	71.8	75	14	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	81.6	85	96.2	72.6	76	12	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	82.1	85	96.2	71.1	74	14	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	86.0	89	96.2	70.3	73	20	65-114/24
100-51-6	Benzyl Alcohol	0.90	J	96.2	69.1	71	96.2	62.6	64	10	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	80.8	84	96.2	71.2	74	13	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	77.0	80	96.2	68.9	72	11	65-112/24
86-74-8	Carbazole	ND		96.2	78.6	82	96.2	70.1	73	11	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	64.0	67	96.2	56.0	58	13	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	70.8	74	96.2	62.6	65	12	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	64.9	67	96.2	58.5	61	10	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	61.5	64	96.2	55.4	58	10	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	73.1	76	96.2	63.9	66	13	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	80.1	83	96.2	69.4	72	14	62-105/20
218-01-9	Chrysene	ND		96.2	79.6	83	96.2	71.6	74	11	66-111/22

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MS	X040263.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
OP56239-MSD	X040264.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
FA24564-10	X040261.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	FA24564-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	78.0	81	96.2	71.2	74	9	66-119/24
132-64-9	Dibenzofuran	ND		96.2	75.7	79	96.2	66.3	69	13	61-106/21
95-50-1	1,2-Dichlorobenzene	ND		96.2	63.7	66	96.2	58.0	60	9	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	62.8	65	96.2	58.1	60	8	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	63.8	66	96.2	59.0	61	8	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	60.8	63	96.2	54.4	57	11	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	79.0	82	96.2	69.7	72	13	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	79.4	83	96.2	69.5	72	13	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	80.5	84	96.2	72.1	75	11	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	80.3	84	96.2	68.4	71	16	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	80.6	84	96.2	70.5	73	13	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	79.2	82	96.2	70.5	73	12	63-108/21
122-66-7	1,2-Diphenylhydrazine	ND		96.2	75.6	79	96.2	66.6	69	13	61-110/24
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	77.3	80	96.2	67.4	70	14	61-117/23
206-44-0	Fluoranthene	ND		96.2	82.3	86	96.2	72.4	75	13	63-106/21
86-73-7	Fluorene	ND		96.2	79.0	82	96.2	70.3	73	12	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	79.5	83	96.2	70.4	73	12	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	67.3	70	96.2	60.2	63	11	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	65.4	68	96.2	54.4	57	18	39-102/29
67-72-1	Hexachloroethane	ND		96.2	59.1	61	96.2	55.7	58	6	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	84.5	88	96.2	73.6	77	14	64-119/24
78-59-1	Isophorone	ND		96.2	71.3	74	96.2	62.2	65	14	43-87/25
90-12-0	1-Methylnaphthalene	0.68	J	96.2	76.3	79	96.2	68.6	71	11	53-102/27
91-57-6	2-Methylnaphthalene	0.79	J	96.2	72.9	75	96.2	65.6	67	11	51-102/26
91-20-3	Naphthalene	2.9	J	96.2	70.7	71	96.2	63.7	63	10	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	77.0	80	96.2	67.4	70	13	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	76.4	79	96.2	65.7	68	15	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	77.6	81	96.2	65.7	68	17	55-120/24
98-95-3	Nitrobenzene	ND		96.2	68.4	71	96.2	60.2	63	13	50-104/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	48.1	50	96.2	45.6	47	5	28-78/30
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	65.5	68	96.2	58.9	61	11	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	77.7	81	96.2	68.6	71	12	64-108/23
85-01-8	Phenanthrene	ND		96.2	79.4	83	96.2	71.1	74	11	66-110/21
129-00-0	Pyrene	ND		96.2	78.3	81	96.2	68.2	71	14	64-113/23
110-86-1	Pyridine	ND		96.2	45.0	47	96.2	41.2	43	9	23-74/34
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	68.6	71	96.2	61.0	63	12	45-97/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56239-MS	X040263.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
OP56239-MSD	X040264.D	1	06/05/15	MV	05/28/15	OP56239	SX1864
FA24564-10	X040261.D	1	06/05/15	MV	05/28/15	OP56239	SX1864

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Surrogate Recoveries	MS	MSD	FA24564-10	Limits
367-12-4	2-Fluorophenol	50%	49%	33%	14-67%
4165-62-2	Phenol-d5	37%	39%	21%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	77%	73%	33-118%
4165-60-0	Nitrobenzene-d5	70%	62%	63%	42-108%
321-60-8	2-Fluorobiphenyl	74%	66%	63%	40-106%
1718-51-0	Terphenyl-d14	88%	81%	75%	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5506-MB	CD133758.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

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

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

Method Blank Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5510-MB	CD133858.D	1	06/01/15	EG	n/a	n/a	GCD5510

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-14, FA24564-15

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	93%	70-131%
98-08-8	aaa-Trifluorotoluene	89%	69-143%

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5506-BS	CD133757.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.360	90	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	70-131%
98-08-8	aaa-Trifluorotoluene	97%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5510-BS	CD133856.D	1	06/01/15	EG	n/a	n/a	GCD5510

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-14, FA24564-15

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.358	90	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	70-131%
98-08-8	aaa-Trifluorotoluene	95%	69-143%

7.2.2

7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24549-9MS	CD133765.D	1	05/27/15	EG	n/a	n/a	GCD5506
FA24549-9MSD	CD133766.D	1	05/27/15	EG	n/a	n/a	GCD5506
FA24549-9	CD133760.D	1	05/27/15	EG	n/a	n/a	GCD5506

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13

CAS No.	Compound	FA24549-9 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)	ND		0.4	0.375	94	0.4	0.370	93	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA24549-9	Limits
460-00-4	4-Bromofluorobenzene	86%	86%	79%	70-131%
98-08-8	aaa-Trifluorotoluene	94%	93%	81%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA24645-1MS	CD133864.D	1	06/01/15	EG	n/a	n/a	GCD5510
FA24645-1MSD	CD133865.D	1	06/01/15	EG	n/a	n/a	GCD5510
FA24645-1	CD133859.D	1	06/01/15	EG	n/a	n/a	GCD5510

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-14, FA24564-15

CAS No.	Compound	FA24645-1 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)	0.10	U	0.4	0.368	92	0.4	0.363	91	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA24645-1	Limits
460-00-4	4-Bromofluorobenzene	92%	98%	89%	70-131%
98-08-8	aaa-Trifluorotoluene	100%	98%	90%	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: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56215-MB	WW3931.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.20	0.080	mg/l	
	TPH (> C22-C36)	ND	0.20	0.080	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	50-131%

8.1.1

8

Blank Spike Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56215-BS	WW3930.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	4	2.79	70	56-123
	TPH (> C22-C36)	4	2.97	74	61-143

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	90%	50-131%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA24564
Account: NATVALB Nation View
Project: Holloman AFB; SS17

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56215-MS	WW3934.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
OP56215-MSD	WW3935.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176
FA24564-2	WW3933.D	1	06/02/15	SJL	05/27/15	OP56215	GWW176

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

CAS No.	Compound	FA24564-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	1.28		7.69	7.22	77	7.69	7.17	77	1	56-123/33
	TPH (> C22-C36)	0.138	J	7.69	5.73	73	7.69	5.86	74	2	61-143/30

CAS No.	Surrogate Recoveries	MS	MSD	FA24564-2	Limits
84-15-1	o-Terphenyl	92%	95%	86%	50-131%

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					05/27/15		05/27/15		05/27/15
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	14	14						
Antimony	6.0	1	1						
Arsenic	10	1.3	1.3						
Barium	200	1	1						
Beryllium	4.0	.2	.2						
Cadmium	5.0	.2	.2						
Calcium	1000	50	50						
Chromium	10	1	1						
Cobalt	50	.2	.2						
Copper	25	1	1						
Iron	300	17	17	-0.70	<300	1.6	<300	-2.8	<300
Lead	5.0	1	1.1						
Magnesium	5000	35	35						
Manganese	15	.5	1	0.0	<15	0.80	<15	-0.10	<15
Molybdenum	50	.3	.3						
Nickel	40	.4	.4						
Potassium	10000	200	200						
Selenium	10	2.4	2.9						
Silver	10	.7	.7						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.1	1.4						
Tin	50	.9	1						
Titanium	10	.5	1						
Vanadium	50	.5	.6						
Zinc	20	3	4.4						

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15 05/27/15

Metal	FA24506-1F Original	DUP	RPD	QC Limits	FA24506-1F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	3020	2970	1.7	0-20	3020	29700	26000	102.6	80-120
Lead									
Magnesium									
Manganese	4970	4980	0.2	0-20	4970	5560	500	118.0	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24506-1F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	3020	29300	26000	101.1	1.4	20
Lead						
Magnesium						
Manganese	4970	5340	500	74.0 (a)	4.0	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	28500	26000	109.6	80-120
Lead				
Magnesium				
Manganese	577	500	115.4	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24506-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	3020	3110	3.1	0-10
Lead				
Magnesium				
Manganese	4970	5230	5.1	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28973
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	Sample ml	Final ml	FA24506-1F 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	3017	2956.66	6048	0.2	150	3000	103.0	80-120
Lead										
Magnesium										
Manganese	9.8	10	4972	4872.56	5054	0.2	2.5	50	362.9*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28973: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-1F, FA24564-2F, FA24564-3F, FA24564-4F, FA24564-5F, FA24564-6F, FA24564-7F, FA24564-8F, FA24564-9F, FA24564-10F, FA24564-11F, FA24564-12F, FA24564-13F, FA24564-14F, FA24564-15F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17	1.3	<300
Lead	5.0	1	1.1		
Magnesium	5000	35	35		
Manganese	15	.5	1	0.0	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15 05/27/15

Metal	FA24568-1 Original	DUP	RPD	QC Limits	FA24568-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper									
Iron	17200	17800	3.4	0-20	17200	42400	26000	96.9	80-120
Lead	anr								
Magnesium	anr								
Manganese	4070	4240	4.1	0-20	4070	4560	500	98.0	80-120
Molybdenum									
Nickel									
Potassium	anr								
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24568-1 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						
Copper						
Iron	17200	42700	26000	98.1	0.7	20
Lead	anr					
Magnesium	anr					
Manganese	4070	4630	500	112.0	1.5	20
Molybdenum						
Nickel						
Potassium	anr					
Selenium	anr					
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

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: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

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				
Copper				
Iron	28000	26000	107.7	80-120
Lead	anr			
Magnesium	anr			
Manganese	533	500	106.6	80-120
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	FA24568-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper				
Iron	17200	17600	2.4	0-10
Lead	anr			
Magnesium	anr			
Manganese	4070	4190	2.9	0-10
Molybdenum				
Nickel				
Potassium	anr			
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

QC Batch ID: MP28974
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/27/15

Metal	Sample ml	Final ml	FA24568-1 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	17160	16816.8	19800	0.2	150	3000	99.4	80-120
Lead										
Magnesium										
Manganese	9.8	10	4069	3987.62	4085	0.2	2.5	50	194.8*(a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28974: FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15

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: FA24564
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	GP26054/GN66472	2.0	0.0	mg/l	200	195	98.4	85-115%
Chemical Oxygen Demand	GP26077/GN66524	20	0.0	mg/l	50.0	52.4	104.8	87-122%
Chemical Oxygen Demand	GP26087/GN66542	20	0.0	mg/l	750.0	723	96.4	87-122%
Chloride	GP26039/GN66455	2.0	0.0	mg/l	50	49.8	99.6	90-110%
Chloride	GP26048/GN66461	2.0	0.0	mg/l	50	51.1	102.2	90-110%
Chloride	GP26049/GN66461	2.0	0.0	mg/l	50	51.2	102.4	90-110%
Fluoride	GP26039/GN66455	0.20	0.0	mg/l	2.5	2.51	100.4	90-110%
Fluoride	GP26048/GN66461	0.20	0.0	mg/l	2.5	2.59	103.6	90-110%
Iron, Ferrous	GN66432	0.10	0.0	mg/l	0.500	0.52	104.6	82-115%
Nitrogen, Ammonia	GP26080/GN66529	0.10	0.0	mg/l	2.5	2.55	102.0	90-110%
Nitrogen, Ammonia	GP26103/GN66575	0.10	0.0	mg/l	2.5	2.56	102.4	90-110%
Nitrogen, Ammonia	GP26118/GN66615	0.10	0.0	mg/l	2.5	2.45	98.0	90-110%
Nitrogen, Nitrate	GP26039/GN66455	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrate	GP26048/GN66461	0.10	0.0	mg/l	2.5	2.50	100.0	90-110%
Nitrogen, Nitrate	GP26049/GN66461	0.10	0.0	mg/l	2.5	2.49	99.6	90-110%
Nitrogen, Nitrite	GP26048/GN66461	0.10	0.0	mg/l	2.5	2.56	102.4	90-110%
Nitrogen, Nitrite	GP26049/GN66461	0.10	0.0	mg/l	2.5	2.56	102.4	90-110%
Nitrogen, Total Kjeldahl	GP26083/GN66547	0.53	0.0	mg/l	2.63	2.66	101.3	90-110%
Nitrogen, Total Kjeldahl	GP26112/GN66597	0.53	0.0	mg/l	2.63	2.72	103.6	90-110%
Solids, Total Dissolved	GN66486	100	0.0	mg/l				
Solids, Total Dissolved	GN66511	100	0.0	mg/l				
Sulfate	GP26039/GN66455	2.0	0.0	mg/l	50	49.6	99.2	90-110%
Sulfate	GP26048/GN66461	2.0	0.0	mg/l	50	50.7	101.4	90-110%
Sulfate	GP26049/GN66461	2.0	0.0	mg/l	50	51.1	102.2	90-110%

Associated Samples:
Batch GN66432: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GN66486: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15
Batch GN66511: FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13
Batch GP26039: FA24564-6, FA24564-8, FA24564-9
Batch GP26048: FA24564-5, FA24564-7, FA24564-11, FA24564-12, FA24564-13
Batch GP26049: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-10, FA24564-14, FA24564-15
Batch GP26054: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GP26077: FA24564-1, FA24564-2, FA24564-3, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GP26080: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11
Batch GP26083: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14
Batch GP26087: FA24564-4
Batch GP26103: FA24564-12, FA24564-13, FA24564-15
Batch GP26112: FA24564-15
Batch GP26118: FA24564-14
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24564
Account: NATVALB - Nation View
Project: Holloman AFB; SS17

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
BOD, 5 Day	GP26054/GN66472	FA24564-1	mg/l	19.7	19.5	1.2	0-30%
BOD, 5 Day	GP26054/GN66472	FA24564-15	mg/l	4.0 U	0.0	200.0(a)	0-30%
Iron, Ferrous	GN66432	FA24564-15	mg/l	0.062	0.073	15.6	0-31%
Iron, Ferrous	GN66432	FA24564-11	mg/l	0.073	0.083	13.5	0-31%
Solids, Total Dissolved	GN66486	FA24564-1	mg/l	3490	3440	1.4	0-5%
Solids, Total Dissolved	GN66511	FA24564-13	mg/l	5060	4930	2.6	0-5%

Associated Samples:
Batch GN66432: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GN66486: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-14, FA24564-15
Batch GN66511: FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13
Batch GP26054: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA24564
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	GP26077/GN66524	FA24564-12	mg/l	11.9	50.0	66.7	109.5	87-122%
Chemical Oxygen Demand	GP26077/GN66524	FA24564-15	mg/l	7.1	50.0	57.1	100.0	87-122%
Chemical Oxygen Demand	GP26087/GN66542	FA24613-1	mg/l	1240	750.0	1790	72.3*(a)	87-122%
Chloride	GP26039/GN66455	JB94371-21	mg/l	0.0	50	52.3	104.6	90-110%
Chloride	GP26048/GN66461	FA24568-10	mg/l	57.7	50	105	94.6	90-110%
Chloride	GP26049/GN66465	FA24564-10	mg/l	41.2	50	91.7	100.4	90-110%
Fluoride	GP26039/GN66455	JB94371-21	mg/l	0.0	2.5	2.7	108.0	90-110%
Fluoride	GP26048/GN66461	FA24568-10	mg/l	0.60 U	2.5	2.6	104.0	90-110%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-2	mg/l	0.030 U	2.5	2.6	104.0	90-110%
Nitrogen, Ammonia	GP26103/GN66575	FA24564-12	mg/l	0.030 U	2.5	2.5	100.0	90-110%
Nitrogen, Ammonia	GP26103/GN66575	FA24564-13	mg/l	0.47	2.5	2.9	97.2	90-110%
Nitrogen, Ammonia	GP26118/GN66615	FA24833-1	mg/l	2.6	2.5	4.9	92.0	90-110%
Nitrogen, Nitrate	GP26039/GN66455	JB94371-21	mg/l	0.0	2.5	2.6	104.0	90-110%
Nitrogen, Nitrate	GP26048/GN66461	FA24568-10	mg/l	3.2	2.5	5.7	100.0	90-110%
Nitrogen, Nitrate	GP26049/GN66465	FA24564-10	mg/l	4.1	2.5	5.6	60.0N	90-110%
Nitrogen, Nitrite	GP26048/GN66461	FA24568-10	mg/l	0.50 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrite	GP26049/GN66465	FA24564-10	mg/l	0.50 U	2.5	2.8	112.0N	90-110%
Nitrogen, Total Kjeldahl	GP26083/GN66547	FA24564-5	mg/l	1.9	2.63	4.9	114.3N(a)	90-110%
Nitrogen, Total Kjeldahl	GP26112/GN66597	FA24564-15	mg/l	0.72	2.63	3.9	121.1N(a)	90-110%
Sulfate	GP26039/GN66455	JB94371-21	mg/l	0.0	50	52.4	104.8	90-110%
Sulfate	GP26048/GN66461	FA24568-10	mg/l	990	50	974	-32.0(b)	90-110%
Sulfate	GP26049/GN66465	FA24564-10	mg/l	1530	50	1510	-40.0(b)	90-110%

Associated Samples:
Batch GP26039: FA24564-6, FA24564-8, FA24564-9
Batch GP26048: FA24564-5, FA24564-7, FA24564-11, FA24564-12, FA24564-13
Batch GP26049: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-10, FA24564-14, FA24564-15
Batch GP26077: FA24564-1, FA24564-2, FA24564-3, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GP26080: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11
Batch GP26083: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14
Batch GP26087: FA24564-4
Batch GP26103: FA24564-12, FA24564-13, FA24564-15
Batch GP26112: FA24564-15
Batch GP26118: FA24564-14
(*) 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: FA24564
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	GP26077/GN66524	FA24564-12	mg/l	11.9	50.0	64.3	3.6	26%
Chemical Oxygen Demand	GP26077/GN66524	FA24564-15	mg/l	7.1	50.0	54.8	4.3	26%
Chemical Oxygen Demand	GP26087/GN66542	FA24613-1	mg/l	1240	750.0	1810	1.3	26%
Chloride	GP26039/GN66455	JB94371-21	mg/l	0.0	50	52.4	0.2	20%
Chloride	GP26048/GN66461	FA24568-10	mg/l	57.7	50	105	0.0	20%
Chloride	GP26049/GN66465	FA24564-10	mg/l	41.2	50	92.1	0.4	20%
Fluoride	GP26039/GN66455	JB94371-21	mg/l	0.0	2.5	2.7	0.0	20%
Fluoride	GP26048/GN66461	FA24568-10	mg/l	0.60 U	2.5	2.7	3.8	20%
Nitrogen, Ammonia	GP26080/GN66529	FA24537-2	mg/l	0.030 U	2.5	2.6	0.0	20%
Nitrogen, Ammonia	GP26103/GN66575	FA24564-12	mg/l	0.030 U	2.5	2.5	0.0	20%
Nitrogen, Ammonia	GP26103/GN66575	FA24564-13	mg/l	0.47	2.5	2.9	0.0	20%
Nitrogen, Ammonia	GP26118/GN66615	FA24833-1	mg/l	2.6	2.5	4.8	2.1	20%
Nitrogen, Nitrate	GP26039/GN66455	JB94371-21	mg/l	0.0	2.5	2.6	0.0	20%
Nitrogen, Nitrate	GP26048/GN66461	FA24568-10	mg/l	3.2	2.5	5.4	5.4	20%
Nitrogen, Nitrate	GP26049/GN66465	FA24564-10	mg/l	4.1	2.5	5.6	0.0	20%
Nitrogen, Nitrite	GP26048/GN66461	FA24568-10	mg/l	0.50 U	2.5	2.6	3.9	20%
Nitrogen, Nitrite	GP26049/GN66465	FA24564-10	mg/l	0.50 U	2.5	2.8	0.0	20%
Nitrogen, Total Kjeldahl	GP26083/GN66547	FA24564-5	mg/l	1.9	2.63	5.5	11.5	20%
Nitrogen, Total Kjeldahl	GP26112/GN66597	FA24564-15	mg/l	0.72	2.63	3.5	10.8	20%
Sulfate	GP26039/GN66455	JB94371-21	mg/l	0.0	50	52.4	0.0	20%
Sulfate	GP26048/GN66461	FA24568-10	mg/l	990	50	975	0.1	20%
Sulfate	GP26049/GN66465	FA24564-10	mg/l	1530	50	1510	0.0	20%

Associated Samples:
Batch GP26039: FA24564-6, FA24564-8, FA24564-9
Batch GP26048: FA24564-5, FA24564-7, FA24564-11, FA24564-12, FA24564-13
Batch GP26049: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-10, FA24564-14, FA24564-15
Batch GP26077: FA24564-1, FA24564-2, FA24564-3, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14, FA24564-15
Batch GP26080: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11
Batch GP26083: FA24564-1, FA24564-2, FA24564-3, FA24564-4, FA24564-5, FA24564-6, FA24564-7, FA24564-8, FA24564-9, FA24564-10, FA24564-11, FA24564-12, FA24564-13, FA24564-14
Batch GP26087: FA24564-4
Batch GP26103: FA24564-12, FA24564-13, FA24564-15
Batch GP26112: FA24564-15
Batch GP26118: FA24564-14
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

06/03/15

Technical Report for

Nation View

Holloman AFB; SS17

8080014.02.020

Accutest Job Number: FA24175

Sampling Date: 05/06/15

Report to:

Nation View

Lance.Williams@nationview.net

ATTN: Lance Williams

Total number of pages in report: **66**

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.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

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Sample Summary

Nation View

Job No: FA24175

Holloman AFB; SS17
Project No: 8080014.02.020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA24175-1	05/06/15	09:35	AW	05/07/15	SO	Soil	SB-301-07
FA24175-2	05/06/15	09:40	AW	05/07/15	SO	Soil	SB-301-07A
FA24175-3	05/06/15	09:50	AW	05/07/15	SO	Soil	SB-302-08
FA24175-4	05/06/15	10:25	AW	05/07/15	SO	Soil	SB-303-09
FA24175-5	05/06/15	10:40	AW	05/07/15	SO	Soil	SB-304-10
FA24175-6	05/06/15	10:55	AW	05/07/15	SO	Soil	SB-305-09
FA24175-7	05/06/15	11:10	AW	05/07/15	SO	Soil	SB-306-09
FA24175-8	05/06/15	00:00	AW	05/07/15	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA24175
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/06/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24175-1	**SB-301-07**					
Benzene		286 J	310	61	ug/kg	SW846 8260B
n-Butylbenzene		3720	310	61	ug/kg	SW846 8260B
sec-Butylbenzene		1670	310	61	ug/kg	SW846 8260B
Ethylbenzene		73000	3100	610	ug/kg	SW846 8260B
Hexane		2910	310	150	ug/kg	SW846 8260B
Isopropylbenzene		5640	310	61	ug/kg	SW846 8260B
p-Isopropyltoluene		769	310	61	ug/kg	SW846 8260B
Naphthalene		15700	3100	1200	ug/kg	SW846 8260B
n-Propylbenzene		16000	3100	610	ug/kg	SW846 8260B
Toluene		4490	310	61	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		75800	3100	610	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		23500	3100	610	ug/kg	SW846 8260B
m,p-Xylene		109000	6100	660	ug/kg	SW846 8260B
o-Xylene		8760	310	61	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		2700	310	150	mg/kg	SW846 8015C
TPH (C10-C22)		1740	160	98	mg/kg	SW846 8015C
FA24175-2	**SB-301-07A**					
Benzene		338	300	61	ug/kg	SW846 8260B
n-Butylbenzene		3860	300	61	ug/kg	SW846 8260B
sec-Butylbenzene		1800	300	61	ug/kg	SW846 8260B
Ethylbenzene		71600	3000	610	ug/kg	SW846 8260B
Hexane		5510	300	150	ug/kg	SW846 8260B
Isopropylbenzene		5700	300	61	ug/kg	SW846 8260B
p-Isopropyltoluene		818	300	61	ug/kg	SW846 8260B
Naphthalene		15900	3000	1200	ug/kg	SW846 8260B
n-Propylbenzene		20600	3000	610	ug/kg	SW846 8260B
Toluene		6360	300	61	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		78600	3000	610	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		29500	3000	610	ug/kg	SW846 8260B
m,p-Xylene		107000	6100	650	ug/kg	SW846 8260B
o-Xylene		12000	300	61	ug/kg	SW846 8260B
Benzo(a)anthracene [a]		40.4 J	220	22	ug/kg	SW846 8270D
Chrysene [a]		24.2 J	220	22	ug/kg	SW846 8270D
Fluoranthene [a]		165 J	220	22	ug/kg	SW846 8270D
Fluorene [a]		107 J	220	22	ug/kg	SW846 8270D
1-Methylnaphthalene [a]		11000	2200	220	ug/kg	SW846 8270D
2-Methylnaphthalene [a]		22100	2200	220	ug/kg	SW846 8270D
Naphthalene [a]		22700	2200	220	ug/kg	SW846 8270D
Phenanthrene [a]		217 J	220	22	ug/kg	SW846 8270D
Pyrene [a]		124 J	220	22	ug/kg	SW846 8270D
TPH-GRO (C6-C10)		2420	610	300	mg/kg	SW846 8015C

Summary of Hits

Job Number: FA24175
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/06/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH (C10-C22) [a]		355	82	49	mg/kg	SW846 8015C
FA24175-3	**SB-302-08**					
Benzene		303000	34000	6900	ug/kg	SW846 8260B
n-Butylbenzene		26100	3400	690	ug/kg	SW846 8260B
sec-Butylbenzene		10300	3400	690	ug/kg	SW846 8260B
Ethylbenzene		482000	34000	6900	ug/kg	SW846 8260B
Hexane		262000	34000	17000	ug/kg	SW846 8260B
Isopropylbenzene		32600	3400	690	ug/kg	SW846 8260B
p-Isopropyltoluene		4640	3400	690	ug/kg	SW846 8260B
Naphthalene		130000	3400	1400	ug/kg	SW846 8260B
n-Propylbenzene		120000	3400	690	ug/kg	SW846 8260B
Toluene		1150000	34000	6900	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		582000	34000	6900	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		137000	3400	690	ug/kg	SW846 8260B
m,p-Xylene		1170000	69000	7400	ug/kg	SW846 8260B
o-Xylene		523000	34000	6900	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		19600	2800	1400	mg/kg	SW846 8015C
TPH (C10-C22)		2310	160	98	mg/kg	SW846 8015C
FA24175-4	**SB-303-09**					
n-Butylbenzene		1980	270	53	ug/kg	SW846 8260B
sec-Butylbenzene		744	270	53	ug/kg	SW846 8260B
Ethylbenzene		3730	270	53	ug/kg	SW846 8260B
Hexane		312	270	130	ug/kg	SW846 8260B
Isopropylbenzene		574	270	53	ug/kg	SW846 8260B
p-Isopropyltoluene		514	270	53	ug/kg	SW846 8260B
Naphthalene		9510	2700	1100	ug/kg	SW846 8260B
n-Propylbenzene		2030	270	53	ug/kg	SW846 8260B
Toluene		59.8 J	270	53	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		9760	270	53	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		7170	270	53	ug/kg	SW846 8260B
m,p-Xylene		1280	530	57	ug/kg	SW846 8260B
o-Xylene		147 J	270	53	ug/kg	SW846 8260B
Acenaphthene		32.8 J	210	21	ug/kg	SW846 8270D
Fluorene		39.9 J	210	21	ug/kg	SW846 8270D
1-Methylnaphthalene		2540	210	21	ug/kg	SW846 8270D
2-Methylnaphthalene		283	210	21	ug/kg	SW846 8270D
Naphthalene		367	210	21	ug/kg	SW846 8270D
Phenanthrene		59.3 J	210	21	ug/kg	SW846 8270D
TPH-GRO (C6-C10)		226	53	27	mg/kg	SW846 8015C
TPH (C10-C22)		176	39	23	mg/kg	SW846 8015C

Summary of Hits

Job Number: FA24175
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/06/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA24175-5	**SB-304-10**					
n-Butylbenzene		254 J	320	64	ug/kg	SW846 8260B
sec-Butylbenzene		152 J	320	64	ug/kg	SW846 8260B
Ethylbenzene		4180	320	64	ug/kg	SW846 8260B
Isopropylbenzene		388	320	64	ug/kg	SW846 8260B
Naphthalene		368	320	130	ug/kg	SW846 8260B
n-Propylbenzene		1270	320	64	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		1850	320	64	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		245 J	320	64	ug/kg	SW846 8260B
m,p-Xylene		783	640	69	ug/kg	SW846 8260B
1-Methylnaphthalene		34.4 J	220	22	ug/kg	SW846 8270D
TPH-GRO (C6-C10)		86.8	13	6.4	mg/kg	SW846 8015C
TPH (C10-C22)		11.6	8.5	5.1	mg/kg	SW846 8015C
FA24175-6	**SB-305-09**					
n-Butylbenzene		6240	250	51	ug/kg	SW846 8260B
sec-Butylbenzene		2560	250	51	ug/kg	SW846 8260B
Ethylbenzene		9840	250	51	ug/kg	SW846 8260B
Hexane		5990	250	130	ug/kg	SW846 8260B
Isopropylbenzene		5070	250	51	ug/kg	SW846 8260B
p-Isopropyltoluene		1160	250	51	ug/kg	SW846 8260B
Naphthalene		17200	2500	1000	ug/kg	SW846 8260B
n-Propylbenzene		24900	2500	510	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene		89500	2500	510	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		47100	2500	510	ug/kg	SW846 8260B
m,p-Xylene		31500	5100	540	ug/kg	SW846 8260B
o-Xylene		401	250	51	ug/kg	SW846 8260B
Acenaphthene		35.9 J	200	20	ug/kg	SW846 8270D
Fluoranthene		20.7 J	200	20	ug/kg	SW846 8270D
Fluorene		52.9 J	200	20	ug/kg	SW846 8270D
1-Methylnaphthalene		2180	200	20	ug/kg	SW846 8270D
2-Methylnaphthalene		885	200	20	ug/kg	SW846 8270D
Naphthalene		332	200	20	ug/kg	SW846 8270D
Phenanthrene		87.1 J	200	20	ug/kg	SW846 8270D
Pyrene		23.6 J	200	20	ug/kg	SW846 8270D
TPH-GRO (C6-C10)		3930	510	250	mg/kg	SW846 8015C
TPH (C10-C22)		434	38	23	mg/kg	SW846 8015C
FA24175-7	**SB-306-09**					
sec-Butylbenzene		223 J	310	63	ug/kg	SW846 8260B
Ethylbenzene		136 J	310	63	ug/kg	SW846 8260B
p-Isopropyltoluene		216 J	310	63	ug/kg	SW846 8260B

Summary of Hits

Job Number: FA24175
Account: Nation View
Project: Holloman AFB; SS17
Collected: 05/06/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		479	310	130	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene		122 J	310	63	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		326	63	31	mg/kg	SW846 8015C
TPH (C10-C22)		36.4	8.0	4.8	mg/kg	SW846 8015C
TPH (> C22-C36)		5.86 J	8.0	4.8	mg/kg	SW846 8015C

FA24175-8 TRIP BLANK

No hits reported in this sample.

(a) Sample extracted beyond hold time.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-301-07		
Lab Sample ID:	FA24175-1	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069613.D	1	05/08/15	EP	n/a	n/a	VF2387
Run #2	F0069628.D	1	05/09/15	EP	n/a	n/a	VF2388

	Initial Weight	Methanol Aliquot
Run #1	7.28 g	100 ul
Run #2	7.28 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3100	920	ug/kg	
107-02-8	Acrolein	ND	1500	820	ug/kg	
107-13-1	Acrylonitrile	ND	1500	430	ug/kg	
71-43-2	Benzene	286	310	61	ug/kg	J
108-86-1	Bromobenzene	ND	310	61	ug/kg	
74-97-5	Bromochloromethane	ND	310	61	ug/kg	
75-27-4	Bromodichloromethane	ND	310	61	ug/kg	
75-25-2	Bromoform	ND	310	61	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1500	520	ug/kg	
104-51-8	n-Butylbenzene	3720	310	61	ug/kg	
135-98-8	sec-Butylbenzene	1670	310	61	ug/kg	
98-06-6	tert-Butylbenzene	ND	310	61	ug/kg	
75-15-0	Carbon Disulfide	ND	310	90	ug/kg	
56-23-5	Carbon Tetrachloride	ND	310	61	ug/kg	
108-90-7	Chlorobenzene	ND	310	61	ug/kg	
75-00-3	Chloroethane	ND	310	120	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1500	610	ug/kg	
67-66-3	Chloroform	ND	310	61	ug/kg	
95-49-8	o-Chlorotoluene	ND	310	61	ug/kg	
106-43-4	p-Chlorotoluene	ND	310	61	ug/kg	
124-48-1	Dibromochloromethane	ND	310	61	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	86	ug/kg	
106-93-4	1,2-Dibromoethane	ND	310	61	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	310	84	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	310	61	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	310	61	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	310	61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	310	61	ug/kg	
107-06-2	1,2-Dichloroethane	ND	310	61	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	310	81	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	310	61	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	310	61	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-301-07		
Lab Sample ID:	FA24175-1	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	310	61	ug/kg	
142-28-9	1,3-Dichloropropane	ND	310	61	ug/kg	
594-20-7	2,2-Dichloropropane	ND	310	68	ug/kg	
563-58-6	1,1-Dichloropropene	ND	310	61	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	310	61	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	310	61	ug/kg	
100-41-4	Ethylbenzene	73000 [a]	3100	610	ug/kg	
87-68-3	Hexachlorobutadiene	ND	310	84	ug/kg	
110-54-3	Hexane	2910	310	150	ug/kg	
591-78-6	2-Hexanone	ND	1500	500	ug/kg	
98-82-8	Isopropylbenzene	5640	310	61	ug/kg	
99-87-6	p-Isopropyltoluene	769	310	61	ug/kg	
74-83-9	Methyl Bromide	ND	310	130	ug/kg	
74-87-3	Methyl Chloride	ND	310	120	ug/kg	
74-95-3	Methylene Bromide	ND	310	61	ug/kg	
75-09-2	Methylene Chloride	ND	610	250	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1500	330	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	310	74	ug/kg	
91-20-3	Naphthalene	15700 [a]	3100	1200	ug/kg	
103-65-1	n-Propylbenzene	16000 [a]	3100	610	ug/kg	
100-42-5	Styrene	ND	310	61	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	310	61	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	310	68	ug/kg	
127-18-4	Tetrachloroethylene	ND	310	100	ug/kg	
108-88-3	Toluene	4490	310	61	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	310	61	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	310	61	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	310	80	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	310	77	ug/kg	
79-01-6	Trichloroethylene	ND	310	61	ug/kg	
75-69-4	Trichlorofluoromethane	ND	310	110	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	310	84	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	75800 [a]	3100	610	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	23500 [a]	3100	610	ug/kg	
108-05-4	Vinyl Acetate	ND	1500	730	ug/kg	
75-01-4	Vinyl Chloride	ND	310	99	ug/kg	
	m,p-Xylene	109000 [a]	6100	660	ug/kg	
95-47-6	o-Xylene	8760	310	61	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:	SB-301-07		
Lab Sample ID:	FA24175-1	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	98%	75-124%
17060-07-0	1,2-Dichloroethane-D4	107%	110%	72-135%
2037-26-5	Toluene-D8	95%	98%	75-126%
460-00-4	4-Bromofluorobenzene	98%	101%	71-133%

(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:	SB-301-07		
Lab Sample ID:	FA24175-1	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	75.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011051.D	10	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.28 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2700	310	150	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		56-149%
98-08-8	aaa-Trifluorotoluene	106%		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:	SB-301-07		
Lab Sample ID:	FA24175-1	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	75.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008017.D	20	05/21/15	SJL	05/14/15	OP56087	GJJ346
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)	1740	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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069614.D	1	05/08/15	EP	n/a	n/a	VF2387
Run #2	F0069615.D	1	05/08/15	EP	n/a	n/a	VF2387

	Initial Weight	Methanol Aliquot
Run #1	7.42 g	100 ul
Run #2	7.42 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3000	910	ug/kg	
107-02-8	Acrolein	ND	1500	810	ug/kg	
107-13-1	Acrylonitrile	ND	1500	420	ug/kg	
71-43-2	Benzene	338	300	61	ug/kg	
108-86-1	Bromobenzene	ND	300	61	ug/kg	
74-97-5	Bromochloromethane	ND	300	61	ug/kg	
75-27-4	Bromodichloromethane	ND	300	61	ug/kg	
75-25-2	Bromoform	ND	300	61	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1500	510	ug/kg	
104-51-8	n-Butylbenzene	3860	300	61	ug/kg	
135-98-8	sec-Butylbenzene	1800	300	61	ug/kg	
98-06-6	tert-Butylbenzene	ND	300	61	ug/kg	
75-15-0	Carbon Disulfide	ND	300	89	ug/kg	
56-23-5	Carbon Tetrachloride	ND	300	61	ug/kg	
108-90-7	Chlorobenzene	ND	300	61	ug/kg	
75-00-3	Chloroethane	ND	300	120	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1500	610	ug/kg	
67-66-3	Chloroform	ND	300	61	ug/kg	
95-49-8	o-Chlorotoluene	ND	300	61	ug/kg	
106-43-4	p-Chlorotoluene	ND	300	61	ug/kg	
124-48-1	Dibromochloromethane	ND	300	61	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	85	ug/kg	
106-93-4	1,2-Dibromoethane	ND	300	61	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	300	83	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	300	61	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	61	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	300	61	ug/kg	
107-06-2	1,2-Dichloroethane	ND	300	61	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	300	80	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	300	61	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	300	61	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	300	61	ug/kg	
142-28-9	1,3-Dichloropropane	ND	300	61	ug/kg	
594-20-7	2,2-Dichloropropane	ND	300	67	ug/kg	
563-58-6	1,1-Dichloropropene	ND	300	61	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	300	61	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	300	61	ug/kg	
100-41-4	Ethylbenzene	71600 [b]	3000	610	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	83	ug/kg	
110-54-3	Hexane	5510	300	150	ug/kg	
591-78-6	2-Hexanone	ND	1500	490	ug/kg	
98-82-8	Isopropylbenzene	5700	300	61	ug/kg	
99-87-6	p-Isopropyltoluene	818	300	61	ug/kg	
74-83-9	Methyl Bromide	ND	300	130	ug/kg	
74-87-3	Methyl Chloride	ND	300	120	ug/kg	
74-95-3	Methylene Bromide	ND	300	61	ug/kg	
75-09-2	Methylene Chloride	ND	610	240	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1500	320	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	300	73	ug/kg	
91-20-3	Naphthalene	15900 [b]	3000	1200	ug/kg	
103-65-1	n-Propylbenzene	20600 [b]	3000	610	ug/kg	
100-42-5	Styrene	ND	300	61	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	300	61	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	67	ug/kg	
127-18-4	Tetrachloroethylene	ND	300	99	ug/kg	
108-88-3	Toluene	6360	300	61	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	300	61	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	300	61	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	300	79	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	300	76	ug/kg	
79-01-6	Trichloroethylene	ND	300	61	ug/kg	
75-69-4	Trichlorofluoromethane	ND	300	110	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	300	83	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	78600 [b]	3000	610	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	29500 [b]	3000	610	ug/kg	
108-05-4	Vinyl Acetate	ND	1500	720	ug/kg	
75-01-4	Vinyl Chloride	ND	300	97	ug/kg	
	m,p-Xylene	107000 [b]	6100	650	ug/kg	
95-47-6	o-Xylene	12000	300	61	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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%	96%	75-124%
17060-07-0	1,2-Dichloroethane-D4	100%	93%	72-135%
2037-26-5	Toluene-D8	100%	101%	75-126%
460-00-4	4-Bromofluorobenzene	98%	104%	71-133%

(a) FA24175-1 data was used per client request
(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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	X040129.D	1	05/29/15	MV	05/28/15	OP56234	SX1860
Run #2 [b]	L0682598.D	10	06/01/15	MV	05/28/15	OP56234	SL3665

	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	
59-50-7	4-Chloro-3-methyl Phenol	ND	220	22	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	22	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	220	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	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	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	ND	220	35	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	40.4	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	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	23	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	
86-74-8	Carbazole	ND	220	22	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	26	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
218-01-9	Chrysene	24.2	220	22	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	ug/kg	
84-66-2	Diethyl Phthalate	ND	440	44	ug/kg	
131-11-3	Dimethyl Phthalate	ND	220	44	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	220	44	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	440	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	22	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	44	ug/kg	
206-44-0	Fluoranthene	165	220	22	ug/kg	J
86-73-7	Fluorene	107	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	44	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	11000 [c]	2200	220	ug/kg	
91-57-6	2-Methylnaphthalene	22100 [c]	2200	220	ug/kg	
91-20-3	Naphthalene	22700 [c]	2200	220	ug/kg	
88-74-4	2-Nitroaniline	ND	220	28	ug/kg	
99-09-2	3-Nitroaniline	ND	220	25	ug/kg	
100-01-6	4-Nitroaniline	ND	220	23	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	23	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	217	220	22	ug/kg	J
129-00-0	Pyrene	124	220	22	ug/kg	J
110-86-1	Pyridine	ND	440	44	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	23	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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%	72%	40-102%
4165-62-2	Phenol-d5	95%	84%	41-100%
118-79-6	2,4,6-Tribromophenol	91%	114% [d]	42-108%
4165-60-0	Nitrobenzene-d5	97%	103%	40-105%
321-60-8	2-Fluorobiphenyl	82%	90%	43-107%
1718-51-0	Terphenyl-d14	98%	116%	45-119%

(a) FA24175-1 data was used per client request
(b) Sample extracted beyond hold time.
(c) Result is from Run# 2
(d) 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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011053.D	10	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.42 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2420	610	300	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		56-149%
98-08-8	aaa-Trifluorotoluene	96%		66-132%

(a) FA24175-1 data was used per client request

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:	SB-301-07A		
Lab Sample ID:	FA24175-2	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	75.7 [a]
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	JJ008143.D	10	05/28/15	SJL	05/28/15	OP56235	GJJ353
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	355	82	49	mg/kg	
	TPH (> C22-C36)	ND	82	49	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		56-122%

(a) FA24175-1 data was used per client request
(b) Sample extracted beyond hold time.

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:	SB-302-08		
Lab Sample ID:	FA24175-3	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.1
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069629.D	1	05/09/15	EP	n/a	n/a	VF2388
Run #2	F0069634.D	1	05/09/15	EP	n/a	n/a	VF2388

	Initial Weight	Methanol Aliquot
Run #1	6.19 g	10.0 ul
Run #2	6.19 g	1.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	34000	10000	ug/kg	
107-02-8	Acrolein	ND	17000	9200	ug/kg	
107-13-1	Acrylonitrile	ND	17000	4800	ug/kg	
71-43-2	Benzene	303000 [a]	34000	6900	ug/kg	
108-86-1	Bromobenzene	ND	3400	690	ug/kg	
74-97-5	Bromochloromethane	ND	3400	690	ug/kg	
75-27-4	Bromodichloromethane	ND	3400	690	ug/kg	
75-25-2	Bromoform	ND	3400	690	ug/kg	
78-93-3	2-Butanone (MEK)	ND	17000	5800	ug/kg	
104-51-8	n-Butylbenzene	26100	3400	690	ug/kg	
135-98-8	sec-Butylbenzene	10300	3400	690	ug/kg	
98-06-6	tert-Butylbenzene	ND	3400	690	ug/kg	
75-15-0	Carbon Disulfide	ND	3400	1000	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3400	690	ug/kg	
108-90-7	Chlorobenzene	ND	3400	690	ug/kg	
75-00-3	Chloroethane	ND	3400	1400	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	17000	6900	ug/kg	
67-66-3	Chloroform	ND	3400	690	ug/kg	
95-49-8	o-Chlorotoluene	ND	3400	690	ug/kg	
106-43-4	p-Chlorotoluene	ND	3400	690	ug/kg	
124-48-1	Dibromochloromethane	ND	3400	690	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3400	960	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3400	690	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3400	940	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3400	690	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3400	690	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3400	690	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3400	690	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3400	690	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3400	910	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3400	690	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3400	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:	SB-302-08		
Lab Sample ID:	FA24175-3	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.1
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	3400	690	ug/kg	
142-28-9	1,3-Dichloropropane	ND	3400	690	ug/kg	
594-20-7	2,2-Dichloropropane	ND	3400	760	ug/kg	
563-58-6	1,1-Dichloropropene	ND	3400	690	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3400	690	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3400	690	ug/kg	
100-41-4	Ethylbenzene	482000 [a]	34000	6900	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3400	940	ug/kg	
110-54-3	Hexane	262000 [a]	34000	17000	ug/kg	
591-78-6	2-Hexanone	ND	17000	5600	ug/kg	
98-82-8	Isopropylbenzene	32600	3400	690	ug/kg	
99-87-6	p-Isopropyltoluene	4640	3400	690	ug/kg	
74-83-9	Methyl Bromide	ND	3400	1500	ug/kg	
74-87-3	Methyl Chloride	ND	3400	1400	ug/kg	
74-95-3	Methylene Bromide	ND	3400	690	ug/kg	
75-09-2	Methylene Chloride	ND	6900	2800	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	17000	3700	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3400	830	ug/kg	
91-20-3	Naphthalene	130000	3400	1400	ug/kg	
103-65-1	n-Propylbenzene	120000	3400	690	ug/kg	
100-42-5	Styrene	ND	3400	690	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	3400	690	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3400	760	ug/kg	
127-18-4	Tetrachloroethylene	ND	3400	1100	ug/kg	
108-88-3	Toluene	1150000 [a]	34000	6900	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	3400	690	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3400	690	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3400	900	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3400	870	ug/kg	
79-01-6	Trichloroethylene	ND	3400	690	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3400	1200	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	3400	940	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	582000 [a]	34000	6900	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	137000	3400	690	ug/kg	
108-05-4	Vinyl Acetate	ND	17000	8200	ug/kg	
75-01-4	Vinyl Chloride	ND	3400	1100	ug/kg	
	m,p-Xylene	1170000 [a]	69000	7400	ug/kg	
95-47-6	o-Xylene	523000 [a]	34000	6900	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:	SB-302-08		
Lab Sample ID:	FA24175-3	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.1
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	101%	75-124%
17060-07-0	1,2-Dichloroethane-D4	108%	88%	72-135%
2037-26-5	Toluene-D8	93%	97%	75-126%
460-00-4	4-Bromofluorobenzene	90%	104%	71-133%

(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:	SB-302-08		
Lab Sample ID:	FA24175-3	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	76.1
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011055.D	10	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.19 g	5.0 ml	2.5 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	19600	2800	1400	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		56-149%
98-08-8	aaa-Trifluorotoluene	98%		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:	SB-302-08		
Lab Sample ID:	FA24175-3	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.1
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008018.D	20	05/21/15	SJL	05/14/15	OP56087	GJJ346
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2310	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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069630.D	1	05/09/15	EP	n/a	n/a	VF2388
Run #2	F0069635.D	1	05/09/15	EP	n/a	n/a	VF2388

	Initial Weight	Methanol Aliquot
Run #1	8.09 g	100 ul
Run #2	8.09 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2700	800	ug/kg	
107-02-8	Acrolein	ND	1300	710	ug/kg	
107-13-1	Acrylonitrile	ND	1300	370	ug/kg	
71-43-2	Benzene	ND	270	53	ug/kg	
108-86-1	Bromobenzene	ND	270	53	ug/kg	
74-97-5	Bromochloromethane	ND	270	53	ug/kg	
75-27-4	Bromodichloromethane	ND	270	53	ug/kg	
75-25-2	Bromoform	ND	270	53	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	450	ug/kg	
104-51-8	n-Butylbenzene	1980	270	53	ug/kg	
135-98-8	sec-Butylbenzene	744	270	53	ug/kg	
98-06-6	tert-Butylbenzene	ND	270	53	ug/kg	
75-15-0	Carbon Disulfide	ND	270	78	ug/kg	
56-23-5	Carbon Tetrachloride	ND	270	53	ug/kg	
108-90-7	Chlorobenzene	ND	270	53	ug/kg	
75-00-3	Chloroethane	ND	270	110	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1300	530	ug/kg	
67-66-3	Chloroform	ND	270	53	ug/kg	
95-49-8	o-Chlorotoluene	ND	270	53	ug/kg	
106-43-4	p-Chlorotoluene	ND	270	53	ug/kg	
124-48-1	Dibromochloromethane	ND	270	53	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	270	75	ug/kg	
106-93-4	1,2-Dibromoethane	ND	270	53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	270	73	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	270	53	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	270	53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	53	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	70	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	53	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	53	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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	270	53	ug/kg	
142-28-9	1,3-Dichloropropane	ND	270	53	ug/kg	
594-20-7	2,2-Dichloropropane	ND	270	59	ug/kg	
563-58-6	1,1-Dichloropropene	ND	270	53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	53	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	53	ug/kg	
100-41-4	Ethylbenzene	3730	270	53	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	73	ug/kg	
110-54-3	Hexane	312	270	130	ug/kg	
591-78-6	2-Hexanone	ND	1300	430	ug/kg	
98-82-8	Isopropylbenzene	574	270	53	ug/kg	
99-87-6	p-Isopropyltoluene	514	270	53	ug/kg	
74-83-9	Methyl Bromide	ND	270	120	ug/kg	
74-87-3	Methyl Chloride	ND	270	110	ug/kg	
74-95-3	Methylene Bromide	ND	270	53	ug/kg	
75-09-2	Methylene Chloride	ND	530	210	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	290	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	270	64	ug/kg	
91-20-3	Naphthalene	9510 [a]	2700	1100	ug/kg	
103-65-1	n-Propylbenzene	2030	270	53	ug/kg	
100-42-5	Styrene	ND	270	53	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	270	53	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	59	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	87	ug/kg	
108-88-3	Toluene	59.8	270	53	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	270	53	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	53	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	70	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	67	ug/kg	
79-01-6	Trichloroethylene	ND	270	53	ug/kg	
75-69-4	Trichlorofluoromethane	ND	270	93	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	270	73	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	9760	270	53	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	7170	270	53	ug/kg	
108-05-4	Vinyl Acetate	ND	1300	630	ug/kg	
75-01-4	Vinyl Chloride	ND	270	86	ug/kg	
	m,p-Xylene	1280	530	57	ug/kg	
95-47-6	o-Xylene	147	270	53	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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	75-124%
17060-07-0	1,2-Dichloroethane-D4	93%	95%	72-135%
2037-26-5	Toluene-D8	98%	101%	75-126%
460-00-4	4-Bromofluorobenzene	99%	102%	71-133%

(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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039917.D	1	05/13/15	MV	05/11/15	OP56032	SX1851
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 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	
59-50-7	4-Chloro-3-methyl Phenol	ND	210	21	ug/kg	
95-57-8	2-Chlorophenol	ND	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	210	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	85	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	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	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	22	ug/kg	
83-32-9	Acenaphthene	32.8	210	21	ug/kg	J
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
62-53-3	Aniline	ND	210	34	ug/kg	
120-12-7	Anthracene	ND	210	21	ug/kg	
92-87-5	Benzidine	ND	2100	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	21	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	22	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	
86-74-8	Carbazole	ND	210	21	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	

ND = Not detected MDL = Method Detection Limit 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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	21	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	25	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	21	ug/kg	
218-01-9	Chrysene	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	
95-50-1	1,2-Dichlorobenzene	ND	210	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	21	ug/kg	
84-66-2	Diethyl Phthalate	ND	430	43	ug/kg	
131-11-3	Dimethyl Phthalate	ND	210	43	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	210	43	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	430	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	210	21	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	39.9	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	43	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	2540	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	283	210	21	ug/kg	
91-20-3	Naphthalene	367	210	21	ug/kg	
88-74-4	2-Nitroaniline	ND	210	27	ug/kg	
99-09-2	3-Nitroaniline	ND	210	24	ug/kg	
100-01-6	4-Nitroaniline	ND	210	22	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	210	23	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	21	ug/kg	
85-01-8	Phenanthrene	59.3	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	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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	90%		42-108%
4165-60-0	Nitrobenzene-d5	68%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	85%		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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011046.D	1	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.09 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	226	53	27	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		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:	SB-303-09		
Lab Sample ID:	FA24175-4	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	78.3
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008019.D	5	05/21/15	SJL	05/14/15	OP56087	GJJ346
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	176	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	103%		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:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069631.D	1	05/09/15	EP	n/a	n/a	VF2388
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	7.35 g	100 ul
Run #2		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3200	960	ug/kg	
107-02-8	Acrolein	ND	1600	860	ug/kg	
107-13-1	Acrylonitrile	ND	1600	450	ug/kg	
71-43-2	Benzene	ND	320	64	ug/kg	
108-86-1	Bromobenzene	ND	320	64	ug/kg	
74-97-5	Bromochloromethane	ND	320	64	ug/kg	
75-27-4	Bromodichloromethane	ND	320	64	ug/kg	
75-25-2	Bromoform	ND	320	64	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1600	550	ug/kg	
104-51-8	n-Butylbenzene	254	320	64	ug/kg	J
135-98-8	sec-Butylbenzene	152	320	64	ug/kg	J
98-06-6	tert-Butylbenzene	ND	320	64	ug/kg	
75-15-0	Carbon Disulfide	ND	320	95	ug/kg	
56-23-5	Carbon Tetrachloride	ND	320	64	ug/kg	
108-90-7	Chlorobenzene	ND	320	64	ug/kg	
75-00-3	Chloroethane	ND	320	130	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1600	640	ug/kg	
67-66-3	Chloroform	ND	320	64	ug/kg	
95-49-8	o-Chlorotoluene	ND	320	64	ug/kg	
106-43-4	p-Chlorotoluene	ND	320	64	ug/kg	
124-48-1	Dibromochloromethane	ND	320	64	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	90	ug/kg	
106-93-4	1,2-Dibromoethane	ND	320	64	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	320	88	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	320	64	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	320	64	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	320	64	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	64	ug/kg	
107-06-2	1,2-Dichloroethane	ND	320	64	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	320	85	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	320	64	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	320	64	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	71	ug/kg	
563-58-6	1,1-Dichloropropene	ND	320	64	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	64	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	64	ug/kg	
100-41-4	Ethylbenzene	4180	320	64	ug/kg	
87-68-3	Hexachlorobutadiene	ND	320	88	ug/kg	
110-54-3	Hexane	ND	320	160	ug/kg	
591-78-6	2-Hexanone	ND	1600	520	ug/kg	
98-82-8	Isopropylbenzene	388	320	64	ug/kg	
99-87-6	p-Isopropyltoluene	ND	320	64	ug/kg	
74-83-9	Methyl Bromide	ND	320	140	ug/kg	
74-87-3	Methyl Chloride	ND	320	130	ug/kg	
74-95-3	Methylene Bromide	ND	320	64	ug/kg	
75-09-2	Methylene Chloride	ND	640	260	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1600	340	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	320	77	ug/kg	
91-20-3	Naphthalene	368	320	130	ug/kg	
103-65-1	n-Propylbenzene	1270	320	64	ug/kg	
100-42-5	Styrene	ND	320	64	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	320	64	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	71	ug/kg	
127-18-4	Tetrachloroethylene	ND	320	100	ug/kg	
108-88-3	Toluene	ND	320	64	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	320	64	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	64	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	84	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	81	ug/kg	
79-01-6	Trichloroethylene	ND	320	64	ug/kg	
75-69-4	Trichlorofluoromethane	ND	320	110	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	320	88	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1850	320	64	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	245	320	64	ug/kg	J
108-05-4	Vinyl Acetate	ND	1600	770	ug/kg	
75-01-4	Vinyl Chloride	ND	320	100	ug/kg	
	m,p-Xylene	783	640	69	ug/kg	
95-47-6	o-Xylene	ND	320	64	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:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-124%
17060-07-0	1,2-Dichloroethane-D4	92%		72-135%
2037-26-5	Toluene-D8	101%		75-126%
460-00-4	4-Bromofluorobenzene	100%		71-133%

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:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039918.D	1	05/13/15	MV	05/11/15	OP56032	SX1851
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	
59-50-7	4-Chloro-3-methyl Phenol	ND	220	22	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	22	ug/kg	
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	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	23	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	ND	220	36	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	23	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	
86-74-8	Carbazole	ND	220	22	ug/kg	
106-47-8	4-Chloroaniline	ND	220	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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

Report of Analysis

Client Sample ID:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	26	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
218-01-9	Chrysene	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	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	ug/kg	
84-66-2	Diethyl Phthalate	ND	450	45	ug/kg	
131-11-3	Dimethyl Phthalate	ND	220	45	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	220	45	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	450	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	22	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	45	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	45	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	34.4	220	22	ug/kg	J
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
91-20-3	Naphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	28	ug/kg	
99-09-2	3-Nitroaniline	ND	220	25	ug/kg	
100-01-6	4-Nitroaniline	ND	220	23	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	24	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
110-86-1	Pyridine	ND	450	45	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	23	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:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	71%		41-100%
118-79-6	2,4,6-Tribromophenol	90%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

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

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

Report of Analysis

Client Sample ID:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011047.D	1	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.35 g	5.0 ml	50.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	86.8	13	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		56-149%
98-08-8	aaa-Trifluorotoluene	107%		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:	SB-304-10		
Lab Sample ID:	FA24175-5	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	73.5
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008020.D	1	05/21/15	SJL	05/14/15	OP56087	GJJ346
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	11.6	8.5	5.1	mg/kg	
	TPH (> C22-C36)	ND	8.5	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	109%		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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069632.D	1	05/09/15	EP	n/a	n/a	VF2388
Run #2	F0069636.D	1	05/09/15	EP	n/a	n/a	VF2388

	Initial Weight	Methanol Aliquot
Run #1	7.71 g	100 ul
Run #2	7.71 g	10.0 ul

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2500	760	ug/kg	
107-02-8	Acrolein	ND	1300	680	ug/kg	
107-13-1	Acrylonitrile	ND	1300	360	ug/kg	
71-43-2	Benzene	ND	250	51	ug/kg	
108-86-1	Bromobenzene	ND	250	51	ug/kg	
74-97-5	Bromochloromethane	ND	250	51	ug/kg	
75-27-4	Bromodichloromethane	ND	250	51	ug/kg	
75-25-2	Bromoform	ND	250	51	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1300	430	ug/kg	
104-51-8	n-Butylbenzene	6240	250	51	ug/kg	
135-98-8	sec-Butylbenzene	2560	250	51	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	51	ug/kg	
75-15-0	Carbon Disulfide	ND	250	75	ug/kg	
56-23-5	Carbon Tetrachloride	ND	250	51	ug/kg	
108-90-7	Chlorobenzene	ND	250	51	ug/kg	
75-00-3	Chloroethane	ND	250	100	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1300	510	ug/kg	
67-66-3	Chloroform	ND	250	51	ug/kg	
95-49-8	o-Chlorotoluene	ND	250	51	ug/kg	
106-43-4	p-Chlorotoluene	ND	250	51	ug/kg	
124-48-1	Dibromochloromethane	ND	250	51	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	71	ug/kg	
106-93-4	1,2-Dibromoethane	ND	250	51	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	250	70	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	250	51	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	250	51	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	250	51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	51	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	51	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	67	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	51	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	250	51	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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	250	51	ug/kg	
142-28-9	1,3-Dichloropropane	ND	250	51	ug/kg	
594-20-7	2,2-Dichloropropane	ND	250	56	ug/kg	
563-58-6	1,1-Dichloropropene	ND	250	51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	51	ug/kg	
100-41-4	Ethylbenzene	9840	250	51	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	70	ug/kg	
110-54-3	Hexane	5990	250	130	ug/kg	
591-78-6	2-Hexanone	ND	1300	410	ug/kg	
98-82-8	Isopropylbenzene	5070	250	51	ug/kg	
99-87-6	p-Isopropyltoluene	1160	250	51	ug/kg	
74-83-9	Methyl Bromide	ND	250	110	ug/kg	
74-87-3	Methyl Chloride	ND	250	100	ug/kg	
74-95-3	Methylene Bromide	ND	250	51	ug/kg	
75-09-2	Methylene Chloride	ND	510	200	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	270	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	250	61	ug/kg	
91-20-3	Naphthalene	17200 [a]	2500	1000	ug/kg	
103-65-1	n-Propylbenzene	24900 [a]	2500	510	ug/kg	
100-42-5	Styrene	ND	250	51	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	51	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	56	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	83	ug/kg	
108-88-3	Toluene	ND	250	51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	250	51	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	67	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	64	ug/kg	
79-01-6	Trichloroethylene	ND	250	51	ug/kg	
75-69-4	Trichlorofluoromethane	ND	250	89	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	250	70	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	89500 [a]	2500	510	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	47100 [a]	2500	510	ug/kg	
108-05-4	Vinyl Acetate	ND	1300	610	ug/kg	
75-01-4	Vinyl Chloride	ND	250	82	ug/kg	
	m,p-Xylene	31500 [a]	5100	540	ug/kg	
95-47-6	o-Xylene	401	250	51	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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	101%	75-124%
17060-07-0	1,2-Dichloroethane-D4	103%	99%	72-135%
2037-26-5	Toluene-D8	93%	99%	75-126%
460-00-4	4-Bromofluorobenzene	97%	101%	71-133%

(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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039919.D	1	05/13/15	MV	05/11/15	OP56032	SX1851
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1000	200	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	ND	200	20	ug/kg	
95-57-8	2-Chlorophenol	ND	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	20	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	400	81	ug/kg	
95-48-7	2-Methylphenol	ND	200	20	ug/kg	
	3&4-Methylphenol	ND	200	40	ug/kg	
88-75-5	2-Nitrophenol	ND	200	20	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	160	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	160	ug/kg	
108-95-2	Phenol	ND	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	20	ug/kg	
83-32-9	Acenaphthene	35.9	200	20	ug/kg	J
208-96-8	Acenaphthylene	ND	200	20	ug/kg	
62-53-3	Aniline	ND	200	32	ug/kg	
120-12-7	Anthracene	ND	200	20	ug/kg	
92-87-5	Benzidine	ND	2000	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	20	ug/kg	
100-51-6	Benzyl Alcohol	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	40	ug/kg	
86-74-8	Carbazole	ND	200	20	ug/kg	
106-47-8	4-Chloroaniline	ND	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	20	ug/kg	

ND = Not detected MDL = Method Detection Limit 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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	20	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	20	ug/kg	
218-01-9	Chrysene	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	
95-50-1	1,2-Dichlorobenzene	ND	200	20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	20	ug/kg	
84-66-2	Diethyl Phthalate	ND	400	40	ug/kg	
131-11-3	Dimethyl Phthalate	ND	200	40	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	200	40	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	400	40	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	20	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	200	20	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	400	40	ug/kg	
206-44-0	Fluoranthene	20.7	200	20	ug/kg	J
86-73-7	Fluorene	52.9	200	20	ug/kg	J
118-74-1	Hexachlorobenzene	ND	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	20	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	40	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	2180	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	885	200	20	ug/kg	
91-20-3	Naphthalene	332	200	20	ug/kg	
88-74-4	2-Nitroaniline	ND	200	26	ug/kg	
99-09-2	3-Nitroaniline	ND	200	23	ug/kg	
100-01-6	4-Nitroaniline	ND	200	21	ug/kg	
98-95-3	Nitrobenzene	ND	200	20	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	200	21	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	20	ug/kg	
85-01-8	Phenanthrene	87.1	200	20	ug/kg	J
129-00-0	Pyrene	23.6	200	20	ug/kg	J
110-86-1	Pyridine	ND	400	40	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		40-102%
4165-62-2	Phenol-d5	68%		41-100%
118-79-6	2,4,6-Tribromophenol	86%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

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

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

Report of Analysis

Client Sample ID:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011052.D	10	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.71 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3930	510	250	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		56-149%
98-08-8	aaa-Trifluorotoluene	103%		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:	SB-305-09		
Lab Sample ID:	FA24175-6	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	81.7
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008000.D	5	05/19/15	SJL	05/14/15	OP56087	GJJ344
Run #2							

	Initial Weight	Final Volume
Run #1	19.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	434	38	23	mg/kg	
	TPH (> C22-C36)	ND	38	23	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	109%		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:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069633.D	1	05/09/15	EP	n/a	n/a	VF2388
Run #2 [a]	F0069648.D	1	05/09/15	EP	n/a	n/a	VF2388

	Initial Weight	Methanol Aliquot
Run #1	6.80 g	100 ul
Run #2	8.04 g	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3100	940	ug/kg	
107-02-8	Acrolein	ND	1600	840	ug/kg	
107-13-1	Acrylonitrile	ND	1600	440	ug/kg	
71-43-2	Benzene	ND	310	63	ug/kg	
108-86-1	Bromobenzene	ND	310	63	ug/kg	
74-97-5	Bromochloromethane	ND	310	63	ug/kg	
75-27-4	Bromodichloromethane	ND	310	63	ug/kg	
75-25-2	Bromoform	ND	310	63	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1600	530	ug/kg	
104-51-8	n-Butylbenzene	ND	310	63	ug/kg	
135-98-8	sec-Butylbenzene	223	310	63	ug/kg	J
98-06-6	tert-Butylbenzene	ND	310	63	ug/kg	
75-15-0	Carbon Disulfide	ND	310	93	ug/kg	
56-23-5	Carbon Tetrachloride	ND	310	63	ug/kg	
108-90-7	Chlorobenzene	ND	310	63	ug/kg	
75-00-3	Chloroethane	ND	310	130	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	1600	630	ug/kg	
67-66-3	Chloroform	ND	310	63	ug/kg	
95-49-8	o-Chlorotoluene	ND	310	63	ug/kg	
106-43-4	p-Chlorotoluene	ND	310	63	ug/kg	
124-48-1	Dibromochloromethane	ND	310	63	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	88	ug/kg	
106-93-4	1,2-Dibromoethane	ND	310	63	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	310	86	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	310	63	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	310	63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	310	63	ug/kg	
75-34-3	1,1-Dichloroethane	ND	310	63	ug/kg	
107-06-2	1,2-Dichloroethane	ND	310	63	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	310	83	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	310	63	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	310	63	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	310	63	ug/kg	
142-28-9	1,3-Dichloropropane	ND	310	63	ug/kg	
594-20-7	2,2-Dichloropropane	ND	310	70	ug/kg	
563-58-6	1,1-Dichloropropene	ND	310	63	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	310	63	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	310	63	ug/kg	
100-41-4	Ethylbenzene	136	310	63	ug/kg	J
87-68-3	Hexachlorobutadiene	ND	310	86	ug/kg	
110-54-3	Hexane	ND	310	160	ug/kg	
591-78-6	2-Hexanone	ND	1600	510	ug/kg	
98-82-8	Isopropylbenzene	ND	310	63	ug/kg	
99-87-6	p-Isopropyltoluene	216	310	63	ug/kg	J
74-83-9	Methyl Bromide	ND	310	140	ug/kg	
74-87-3	Methyl Chloride	ND	310	130	ug/kg	
74-95-3	Methylene Bromide	ND	310	63	ug/kg	
75-09-2	Methylene Chloride	ND	630	250	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1600	340	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	310	76	ug/kg	
91-20-3	Naphthalene	479	310	130	ug/kg	
103-65-1	n-Propylbenzene	ND	310	63	ug/kg	
100-42-5	Styrene	ND	310	63	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	310	63	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	310	70	ug/kg	
127-18-4	Tetrachloroethylene	ND	310	100	ug/kg	
108-88-3	Toluene	ND	310	63	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	310	63	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	310	63	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	310	82	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	310	79	ug/kg	
79-01-6	Trichloroethylene	ND	310	63	ug/kg	
75-69-4	Trichlorofluoromethane	ND	310	110	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	310	86	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	310	63	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	122	310	63	ug/kg	J
108-05-4	Vinyl Acetate	ND	1600	750	ug/kg	
75-01-4	Vinyl Chloride	ND	310	100	ug/kg	
	m,p-Xylene	ND	630	67	ug/kg	
95-47-6	o-Xylene	ND	310	63	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:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	95%	75-124%
17060-07-0	1,2-Dichloroethane-D4	88%	101%	72-135%
2037-26-5	Toluene-D8	100%	74% [b]	75-126%
460-00-4	4-Bromofluorobenzene	100%	126%	71-133%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits 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:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039920.D	1	05/13/15	MV	05/11/15	OP56032	SX1851
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 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	
59-50-7	4-Chloro-3-methyl Phenol	ND	220	22	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	22	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	220	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	86	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	43	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	170	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
62-53-3	Aniline	ND	220	34	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	43	ug/kg	
86-74-8	Carbazole	ND	220	22	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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

Report of Analysis

Client Sample ID:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	25	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
218-01-9	Chrysene	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	
95-50-1	1,2-Dichlorobenzene	ND	220	22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	220	22	ug/kg	
84-66-2	Diethyl Phthalate	ND	430	43	ug/kg	
131-11-3	Dimethyl Phthalate	ND	220	43	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	220	43	ug/kg	
84-74-2	Di-n-butyl Phthalate	ND	430	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	220	22	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	43	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	43	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	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
91-20-3	Naphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	27	ug/kg	
99-09-2	3-Nitroaniline	ND	220	24	ug/kg	
100-01-6	4-Nitroaniline	ND	220	22	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	220	23	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
110-86-1	Pyridine	ND	430	43	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:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.8
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	65%		41-100%
118-79-6	2,4,6-Tribromophenol	83%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	66%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

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

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

Report of Analysis

Client Sample ID:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UU011050.D	1	05/19/15	AH	n/a	n/a	GUU538
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.80 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	326	63	31	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		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:	SB-306-09		
Lab Sample ID:	FA24175-7	**Date Sampled:**	05/06/15
Matrix:	SO - Soil	**Date Received:**	05/07/15
Method:	SW846 8015C SW846 3546	**Percent Solids:**	76.8
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ008001.D	1	05/19/15	SJL	05/14/15	OP56087	GJJ344
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	36.4	8.0	4.8	mg/kg	
	TPH (> C22-C36)	5.86	8.0	4.8	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		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:	FA24175-8	**Date Sampled:**	05/06/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0069627.D	1	05/09/15	EP	n/a	n/a	VF2388
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	13	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	8.5	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	
75-15-0	Carbon Disulfide	ND	5.0	1.5	ug/kg	
56-23-5	Carbon Tetrachloride	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	2.0	ug/kg	
110-75-8	2-Chloroethyl Vinyl Ether	ND	25	10	ug/kg	
67-66-3	Chloroform	ND	5.0	1.0	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	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA24175-8	**Date Sampled:**	05/06/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/07/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS17		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
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	1.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	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	
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	ug/kg	
110-54-3	Hexane	ND	5.0	2.5	ug/kg	
591-78-6	2-Hexanone	ND	25	8.2	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	
74-83-9	Methyl Bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene Bromide	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.2	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	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	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	
108-05-4	Vinyl Acetate	ND	25	12	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.6	ug/kg	
	m,p-Xylene	ND	10	1.1	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA24175-8	**Date Sampled:**	05/06/15
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/07/15
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%		75-124%
17060-07-0	1,2-Dichloroethane-D4	110%		72-135%
2037-26-5	Toluene-D8	103%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%

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

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA24175 PAGE_____OF_____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: NationVier
Address: 4601 University Sq Ste 13
City: Huntsville State: AL Zip: 35816
Project Contact: Fermin Esquibel E-mail: fesquibel@nationvier
Phone#: 931-581-5070
Sampler(s) Name(s) (Printed): Lance Williams

Project Information

Project Name: SS-17
Street
City: Alamogordo State: NM
Project #: Red
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	VOC - 8260	SVOC 8270	TPH - 8015 GRO	TPH - 8015 DRO								LAB USE ONLY
1	SB-301-07	5/6	0935	ALW	S/W	4	X									X	X	X	X								
2	SB-301-07A		0940			3										X	X	X	X								
3	SB-302-08		0950			4										X	X	X	X								
4	SB-303-09		1025			4										X	X	X	X								
5	SB-304-10		1040			4										X	X	X	X								
6	SB-305-09		1055			4										X	X	X	X								
7	SB-306-09		1110			4										X	X	X	X								
8	trip blank		—		W											X	~~X~~	~~X~~	~~X~~	TR							

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

run SB-301-07A soil jar sample from 07 jar. low volume/not enough soil for another 4oz jar.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Lance Williams	5/6/15 1200	FX	3 RF 05-07-15	915	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.0

4.1 4

FA24175: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA24175 CLIENT: Natrow View PROJECT: SS-17

DATE/TIME RECEIVED: 05-07-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 7735 3992 3037

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 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

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

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
- [x] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#
  {APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ? 8

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: No Jar For Sample # 2

TECHNICIAN SIGNATURE/DATE [signature] 05-07-15 REVIEWER SIGNATURE/DATE [signature] 5-7-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA24175: Chain of Custody

Page 2 of 4

From: (575) 921-1899
Tony Lucero
NATIONVIEW
BLG 1266 Vandergrift Rd

Holloman AFB, NM 88330

Origin ID: ELPA

FedEx Express

J151215022303uv

Ship Date: 06MAY15
ActWgt: 40.0 LB
CAD: 100026931/INET3610

Delivery Address Bar Code

SHIP TO: (407) 425-6700
Jean Smith
Accutest
4405 VINELAND RD
STE C15
ORLANDO, FL 32811

BILL RECIPIENT

Ref #	11-0019.73.010
Invoice #	11-0019.73.010
PO #	11-0019.73.010
Dept #	11-0019.73.010

THU - 07 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7735 3992 3037

XH TIXA

32811
FL-US
MCO

537J1/25E2/EE49

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.

Job Change

FA24175

Requested Date:	5/22/2015	**Received Date:**	5/7/2015
Account Name:	Nation View	**Due Date:**	5/21/2015
Project	Holloman AFB; SS17	**Deliverable:**	COMMB
CSR:	jeans	**TAT (Days):**	14

==========

Sample #: FA24175--2

Change:
No sample jar received, per client use extra jar from -1 and analyze as -2. Thank you.

==========

Above Changes Per: Client, Tony Lucero

Date/Time: 5/22/2015 3:40:06 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA24175 PAGE_____OF_____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: NationVier
Address: 4601 University Sq Ste 13
City: Huntsville State: AL Zip: 35816
Project Contact: Fernando Esquibel E-mail: fesquibel@nationvier
Phone#: 931-581-5070
Sampler(s) Name(s) (Printed): Lance Williams

Project Information

Project Name: SS-17
Street:
City: Alamogordo State: NM
Project #: Kel
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	VOC-8260	SVOC 8270	TPH-8015 GRO	TPH 8015 DRO								Lab Use Only
1	SB-301-07	5/6	0935	ALW	S/W	4	X									X	X	X	X								
2	SB-301-07A		0940			3										X	X	X	X								
3	SB-302-08		0950			4										X	X	X	X								
4	SB-303-09		1025			4										X	X	X	X								
5	SB-304-10		1040			4										X	X	X	X								
6	SB-305-09		1055			4										X	X	X	X								
7	SB-306-09		1110			4										X	X	X	X								
8	trip blank		—		W											X	~~X~~	~~X~~	~~X~~	TC							

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

run SB-301-07A soil jar sample from 07 jar. low volume/not enough soil for another 4oz jar.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Lance Williams	5/6/15 1200	FX	3 FX 05-07-15	915	4 [illegible]
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 3.0

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA24175 CLIENT: Natrow View PROJECT: SS-17

DATE/TIME RECEIVED: 05-07-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 7735 3992 3037

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 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

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

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
- [x] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ? 8

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: No Jar For Sample # 2

TECHNICIAN SIGNATURE/DATE [signature] 05-07-15 REVIEWER SIGNATURE/DATE [signature] 5-7-15

Job Change

FA24175

Requested Date:	5/22/2015	**Received Date:**	5/7/2015
Account Name:	Nation View	**Due Date:**	5/21/2015
Project	Holloman AFB; SS17	**Deliverable:**	COMMB
CSR:	jeans	**TAT (Days):**	14

==========

Sample #: FA24175--2

Change:
No sample jar received, per client use extra jar from -1 and analyze as -2. Thank you.

==========

Above Changes Per: Client, Tony Lucero

Date/Time: 5/22/2015 3:40:06 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

APPENDIX G

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 26-27, 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">FA17765</td><td rowspan="7">Water</td><td rowspan="4">8/27/14</td><td rowspan="7">VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), Manganese (Dissolved/Total 200.7/6010C), BOD (SM5210B), COD (SM5220C), H_2S (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-MW05a</td></tr>
<tr><td>SS17-MW07</td></tr>
<tr><td>SS17-MW08</td></tr>
<tr><td>SS17-MW21</td><td rowspan="3">FA17738</td><td rowspan="3">8/26/14</td></tr>
<tr><td>SS17-MW22</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 blank associated with all samples in package FA17738 reported a concentration of toluene. Toluene, when detected, was at a concentration well above 5x the blank concentration. Therefore, no qualification was necessary.

The trip blank associated with all samples in package FA17765 yielded low level detections of carbon disulfide and toluene. Neither compound was detected in any sample and did not warrant qualification.

The general chemistry method blank for samples in package FA17738 yielded a detection of sulfate. All sample results were well above 5x the blank concentration and did not require qualification.

The method blank, associated with samples SS17-MW07 and SS17-MW08, reported a low level detection of carbon disulfide. This was not detected in the associated samples and required no qualification.

Laboratory Control Sample (LCS)

The LCS recovery for acrolein was above QC limits associated with all samples in package FA17738. This compound was not detected in any sample; no qualification was necessary.

The LCS recoveries of 2,2-dichloropropane and vinyl acetate were above control limits for associated samples SS17-MW07 and SS17-MW08. In addition, the LCS recoveries of m-dichlorobenzene, o-dichlorobenzene and methylene bromide were above control limits for associated samples SS17-MW05 and SS17-MW05a. All of these compounds were not detected in the associated samples and required no qualification.

Surrogates

The semi-volatile (2nd run) surrogate recoveries of sample SS17-MW21 were 'diluted out'. All 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 FA17738, the MS/MSD recoveries and/or relative percent difference (RPD) for multiple compounds were outside control limits. Since the samples used were from another batch/lot accuracy was determined by the LCS recoveries. The exception being COD and TKN whose QC samples were part of package FA17738. The COD spike amount was low relative to the sample amount (<4x) therefore control limits did not apply. TKN yielded a LCS recovery within control. Therefore qualification was deemed unnecessary.

The MS/MSD recoveries, associated with samples SS17-MW07 and SS17-MW08, yielded 2-chloroethyl vinyl ether, cis-1,3-dichloropropene, trans-1,3-dichloropropene, ethylbenzene, and vinyl acetate outside control limits. Accuracy was cross reference with the LCS recoveries; which were in control (with the exception of vinyl acetate). The non-detected vinyl acetate yielded recovery results above control limits for both the LCS and MS; therefore, no qualification of the data was necessary.

The MS and MSD recoveries associated with samples SS17-MW05 and SS17-MW05a yielded TPH-GRO outside control limits. And the MS recovery of ammonia and TKN, associated will all samples in package FA17765, were above control limits. Cross reference with the LCS recoveries, which were in control, resulted in no compounds requiring qualification.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPD for iron 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 FA17738, the laboratory duplicate RPD of ferrous iron was above QC limits. Samples SS17-MW05, SS17-MW05a and SS17-MW07 yielded the laboratory duplicate RPD for manganese outside control limits. The RPDs were acceptable due to low duplicate and sample concentrations (<5x reporting limit) and required no qualification.

The serial dilution percent difference of iron was outside QC limits for samples in package FA17765 and for manganese related to samples SS17-MW05, SS17-MW05a and SS17-MW07. When the initial sample concentration was >50x the method detection limit the compound was qualified estimated, (J).

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	Iron Manganese	171 J 253 J
SS17-MW05a	Iron Manganese	108 J 238 J
SS17-MW07	Manganese	374 J

* µg/L

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on November 20-24, 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:

Sample ID	Lab Package	Matrix	Collection Date	Analyses
SS17-MW05	FA20251	Water	11/24/14	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)
SS17-MW07				
SS17-MW07a				
SS17-MW08				
SS17-MW21	FA20162		11/20/14	
SS17-MW22				
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, October 2013) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, October 2013).

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.

-BOD, in lab package FA20162, was run outside of the requisite 48 hour hold time and qualified either estimated (J) or estimated non-detected (UJ).

-The re-analysis of nitrate was run outside hold time for samples SS17-MW22 and SS17-MW23. This non detected compound was qualified estimated non-detected (UJ).

Blanks

No compounds were detected in the trip blanks and method blanks of all analyses.

Laboratory Control Sample (LCS)

The LCS recovery for trans-1,3-dichloropropene was above QC limits associated with all samples in package FA20251. This compound was not detected in any sample; no qualification was necessary. The semi-volatile compounds 4-bromophenyl phenyl ether and indeno (1,2,3-cd) pyrene were recovered below QC limits. These non detected compounds were qualified estimated non-detected (UJ) in all samples.

For lab package FA20162, the LCS recoveries of 2-chloroethyl vinyl ether was above control limits. This non-detected compound required no qualification. In addition, the LCS recoveries of

4-bromophenyl phenyl ether, benzoic acid and BOD were below control limits. These non-detected compounds were qualified estimated non-detected (UJ).

Surrogates

The semi-volatile (2nd run) surrogate recoveries along with the extractable TPH surrogate recovery of sample SS17-MW21 were 'diluted out'. All 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 FA20251, the MS/MSD recoveries for benzene, COD, ammonia and TKN were above control limits. The QC samples used were from another batch/lot. Accuracy was determined by the LCS recoveries, which were in control. Therefore qualification was deemed unnecessary.

The MS and/or MSD recoveries, associate with package FA20162, yielded acrolein, 4-bromophenyl phenyl ether, bis(2-chloroethyl)ether, TPH-DRO, COD, Ammonia and TKN were outside control limits. The majority of QC samples used were from another batch/lot. Therefore, accuracy was cross reference with the LCS recoveries; which were in control (with the exception of 4-bromophenyl phenyl ether). No additional qualification of the data was necessary.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPD for ethylbenzene, isopropylbenzene and chemical oxygen demand (COD) 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 in package FA20251, the laboratory duplicate RPD of ferrous iron was above QC limits. The RPD was acceptable due to low duplicate and sample concentrations (<5x reporting limit) and required no qualification.

The serial dilution percent difference of iron was outside QC limits for samples in package FA20251. The sample concentrations were not >50x the method detection limit 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-MW05	4-Bromophenyl phenyl ether Indeno (1,2,3-cd)pyrene	UJ UJ
SS17-MW07	Ethylbenzene Isopropylbenzene COD 4-Bromophenyl phenyl ether Indeno (1,2,3-cd)pyrene	4.6 J 0.26 J 15.0 J UJ UJ
SS17-MW07a	Ethylbenzene Isopropylbenzene COD 4-Bromophenyl phenyl ether Indeno (1,2,3-cd)pyrene	8.1 J 0.39 J 10.0 J UJ UJ
SS17-MW08	4-Bromophenyl phenyl ether Indeno (1,2,3-cd)pyrene	UJ UJ
SS17-MW21	BOD Benzoic acid 4-Bromophenyl phenyl ether	255 J UJ UJ
SS17-MW22	BOD Nitrate Benzoic acid 4-Bromophenyl phenyl ether	4.0 UJ 5.0 UJ UJ UJ
SS17-MW23	BOD Nitrate Benzoic acid 4-Bromophenyl phenyl ether	4.0 UJ 5.0 UJ UJ UJ

* volatiles/semi-volatiles in 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 3-5, 2015. 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	FA21899	Water	2/4/15	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	FA21939		2/5/15	
SS17-MW07a				
SS17-MW08				
SS17-MW21	FA21899		2/4/15	
SS17-MW22				
SS17-MW23	FA21868		2/3/15	

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, October 2013) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, October 2013).

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

No compounds were detected in the trip blanks.

The method blank of SS17-MW23 reported a low level detection of bis(2-ethylhexyl)phthalate. The sample result was less than 5x the blank concentration and considered to be affected by blank contamination and qualified and flagged (U).

Laboratory Control Sample (LCS)

The LCS recovery for acrolein was above QC limits associated with all samples in package FA21939 as well as sample SS17-MW21. This compound was not detected in any sample; no qualification was necessary. For samples SS17-MW22, SS17-MW21 and SS17-MW05 the semi-volatile compounds benzo(g,h,i)perylene, 4-bromophenyl phenyl ether, dibenzo(a,h)anthracene, hexachlorobenzene and indeno (1,2,3-cd) pyrene were recovered below QC limits. These non detected compounds were qualified estimated non-detected (UJ) in all samples.

For sample SS17-MW23, the LCS recoveries of acetone, acrolein and 2-hexanone were above control limits. These compounds were not detected in the sample and required no qualification.

Surrogates

The semi-volatile (confirmatory runs) surrogate recoveries along with the extractable TPH surrogate recovery of sample SS17-MW21 were 'diluted out'. Sample SS17-MW05 also had semi-volatile surrogates 'diluted out' of the confirmatory run. All quality control surrogate recoveries associated with these samples were within control limits and therefore, no qualification was necessary.

Matrix spike/matrix spike duplicates (MS/MSD)

For lab package FA21939, the MS/MSD recoveries for acrolein and ammonia were above control limits. Acrolein was not detected in the associated parent sample (SS17-MW08) and required no qualification; ammonia was qualified estimated (J) in the parent sample (SS17-MW22). Meanwhile, the MS and/or MSD for ethylbenzene, m-p-xylene, 2,4-dimethylphenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol, aniline, benzo(a)pyrene, 4-chloroaniline, 3,3'-dichlorobenzidine, hexachlorocyclopentadiene, 3-nitroaniline, manganese and TKN were below QC limits. These compounds were qualified estimated (J or UJ) in the associated parent samples with the exception of manganese which did not require qualification since the sample concentration was greater than 4x the spike amount.

The MS/MSD recoveries and/or relative percent difference (RPD), associate with samples SS17-MW22 and SS17-MW05, yielded acrolein, carbon tetrachloride, 2-hexanone, 4-methyl-2-pentanone and 1,1,1,2-tetrachloroethane above control limits. These compounds were not detected in the associated parent sample and required no qualification. The volatile MS/MSD recoveries of multiple compounds were reported above QC limits for sample SS17-MW21. Since the QC sample used was from another batch/lot precision and accuracy were cross reference with the LCS recoveries. No qualification of the data was warranted. The MS/MSD recoveries of 4,6-dinitro-o-cresl, benzidine, 4-bromophenyl phenyl ether, dibenzo(a,h) anthracene, hexachlorobenzene, indeno(1,2,3-dc)pyrene, manganese, TKN and sulfate were below QC limits associated with package FA21899. These compounds were qualified estimated (UJ or J) in the parent sample (SS17-MW22) only with the exception of manganese which didn't required qualification due to the fact the sample concentration exceeded the spike concentration by a factor of 4 or more.

Finally the MS/MSD recoveries of multiple compounds associated with sample SS17-MW23 were outside control limits. The samples used were from another batch/lot therefore precision and accuracy were cross reference with the LCS recoveries. No qualification of the data was necessary.

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The RPD for all detected volatiles as well as bis(2-ethylhexyl)phthalate, iron, ammonia and nitrate 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.

mmary of Qualified Data

Sample ID	Parameter	Qualifier*
SS17-MW05	Benzo(g,h,i)perylene	UJ
	4-Bromophenyl Phenyl Ether	UJ
	Dibenzo(a,h) anthracene	UJ
	Hexachlorobenzene	UJ
	Indeno(1,2,3-dc)pyrene	UJ
SS17-MW07	Benzene	32.0 J
	n-Butylbenzene	0.67 J
	sec-Butylbenzene	1.2 J
	Ethylbenzene	74.4 J
	Isopropylbenzene	3.0 J
	Naphthalene	7.6 J
	n-Propylbenzene	11.5 J
	Toluene	140 J
	1,2,4-Trimethylbenzene	49.0 J
	1,3,5-Trimethylbenzene	15.0 J
	M,p-Xylene	176 J
	o-Xylene	73.8 J
	bis(2-Ethylhexyl)phthalate	1.4 J
	Iron	339 J
	Ammonia	0.20 J
	Nitrate	2.8 J
	2,4-Dimethlyphenol	UJ
	2,4-Dinitrophenol	UJ
	4,6-Dinitro-o-cresol	UJ
	Aniline	UJ
	Benzo(a)pyrene	UJ
	4-Chloroaniline	UJ
	3,3'-Dichlorobenzidine	UJ
	Hexachlorocyclopentadiene	UJ
	3-Nitroaniline	UJ
SS17-MW07a	Benzene	16.4 J
	n-Butylbenzene	0.43 J
	sec-Butylbenzene	0.81 J
	Ethylbenzene	49.4 J
	Isopropylbenzene	2.0 J
	Naphthalene	5.0 J
	n-Propylbenzene	7.0 J
	Toluene	96.8 J
	1,2,4-Trimethylbenzene	31.4 J
	1,3,5-Trimethylbenzene	9.4 J
	M,p-Xylene	121 J
	o-Xylene	47.8 J
	bis(2-Ethylhexyl)phthalate	0.98 J
	Iron	49.8 J
	Ammonia	0.097 J
	Nitrate	2.0 J
SS17-MW08	Ethylbenzene	3890 J
	m-p-Xylene	3920 J
SS17-MW21	Benzo(g,h,i)perylene	UJ
	4-Bromophenyl Phenyl Ether	UJ
	Dibenzo(a,h) anthracene	UJ
	Hexachlorobenzene	UJ
	Indeno(1,2,3-dc)pyrene	UJ
SS17-MW22	Ammonia	0.56 J
	TKN	0.30 J
	4,6-dinitro-o-cresol	UJ
	Benzidine	UJ
	Benzo(g,h,i)perylene	UJ
	4-Bromophenyl Phenyl Ether	UJ
	Dibenzo(a,h) anthracene	UJ
	Hexachlorobenzene	UJ
	Indeno(1,2,3-dc)pyrene	UJ
	Sulfate	4090 J
SS17-MW23	bis(2-Ethylhexyl)phthalate	1.7 U

* volatiles/semi-volatiles in 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 18-21, 2015. Twenty three aqueous samples, two duplicates 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-MW01	FA24537	Water	5/19/15	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-MW02				
SS17-MW03	FA24564		5/20/15	
SS17-MW04			5/21/15	
SS17-MW05			5/20/15	
SS17-MW05a				
SS17-MW06				
SS17-MW07				
SS17-MW07a				
SS17-MW08				
SS17-MW09	FA24537		5/19/15	
SS17-MW10				
SS17-MW11				
SS17-MW13				
SS17-MW14	FA24564		5/21/15	
SS17-MW16				
SS17-MW17	FA24537		5/19/15	
SS17-MW18	FA24564		5/21/15	
SS17-MW19				
SS17-MW20			5/20/15	
SS17-MW21				
SS17-MW22	FA24506		5/18/15	
SS17-MW23	FA24537		5/19/15	
SS17-MWBX01	FA24564		5/20/15	
SS17-MWBX02	FA24537		5/19/15	

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, August 2014) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, August 2014).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exceptions:

-Ferrous iron was analyzed outside the recommended twenty-four hour timeframe but within 48 hours for all samples except SS17-MW03, SS17-MW05, SS17-MW05A, SS17-MW21, SS17-MW07, SS17-MW07A, SS17-MW10, SS17-MW11, SS17-MW09, SS17-MW13, SS17-MW02,

SS17-MWBX02 and SS17-MW17. These samples were qualified estimated and flagged either "J" or "UJ".

-Nitrate was analyzed outside the requisite 48 hour hold time for samples SS17-MW03, SS17-MW05, SS17-MW05A, SS17-MW21, SS17-MW07, SS17-MW07A, SS17-MW10, SS17-MW09, SS17-MW13, SS17-MWBX02 and SS17-MW17 and qualified estimated with a flag of "J" or "UJ".

Blanks

Multiple trip blanks were re-analyzed outside hold time and/or contained significant headspace. If there was a detection reported in a trip blank it was either not detected in the sample or the sample concentration was >5x (10x for common lab contaminants) the blank concentration and required no qualification.

The method blank associated with SS17-MW22 reported a low level detection of methylene chloride. The sample reported no detection of this analyte and required no qualification.

Laboratory Control Sample (LCS)

The LCS recovery for acetone was above QC limits associated with sample SS17-MW22. This compound was not detected; no qualification was necessary. Also, the semi-volatile compound bis(2-chloroethoxy)methane was recovered below QC limits. This non detected compound was qualified estimated non-detected, "UJ".

For all samples in package FA24537, the LCS recoveries of benzoic acid and benzidine were below control limits. These compounds were not detected in the sample and were qualified estimated non-detected, "UJ".

Surrogates

The semi-volatile surrogate recoveries of sample SS17-MW21 were 'diluted out'. All quality control surrogate recoveries associated with this sample were within control limits and therefore, no qualification was necessary.

The volatile surrogate 1,2-dichloroethane-d4 was recovered above QC limits in sample SS17-MW01. No detections were reported; therefore no qualification was necessary. This surrogate was also above QC limits in the matrix spike analyses for package FA24537. Since the samples used were batched samples; the data was not adversely affected and needed no qualification.

The semi-volatile surrogate phenol-d5 was recovered above QC limits for the matrix spike analyses of lab package FA24537. The sample was a batch sample and did not apply to this data set. No qualification was deemed necessary.

Matrix spike/matrix spike duplicates (MS/MSD)

For sample SS17-MW22, the MS/MSD recoveries for 2-chloroethyl vinyl ether and benzidine were below control limits. These compound are notoriously poor performers and using professional judgement the non-detect results required no qualification. In addition, the MS and/or MSD recoveries of benzo(b)fluoranthene, 4-bromophenyl phenyl ether, 4-chloroaniline, 2,6 dinitrotoluene, 3-nitroaniline and dissolved manganese were below QC limits. Sample SS17-MW22 was used for the spike analysis and these compounds were qualified estimated and flagged either "J" or "UJ".

The MS/MSD recoveries, associate with samples in package FA24564, yielded multiple volatile compounds as well as TKN outside control limits. The associated parent samples used were from

this lab package. Only those compounds that reported recoveries above QC limits and associated sample results above the MDL as well as those spike recoveries reported below QC limits and associated sample compounds were qualified estimated in the associated parent samples (see Summary Table below).

For the batched MS/MSD recoveries of samples in package FA24564, naphthalene, benzidine, manganese, chemical oxygen demand and sulfate were outside control limits. Precision and accuracy were determined by the LCS recoveries; which were in control. Therefore, no qualification was necessary.

For lab package FA24537 multiple volatile/semi-volatile compounds and sulfate reported MS and/or MSD recoveries outside control limits. The samples used for spike analyses were from another batch/lot. Precision and accuracy were cross referenced with the LCS recoveries; which were in control. Therefore, no qualification was required.

The MS and MSD recoveries of total manganese were below QC limits for lab package FA24537. The sample used for spiking was SS17-MWBX02 and this compound was qualified in the parent sample only.

Project specific quality assurance/quality control

Two field duplicate samples were collected as part of this sampling event. Samples SS17-MW05 and its duplicate yielded the RPD above control limits for naphthalene, total iron, hydrogen sulfide and ferrous iron. Samples SS17-MW07 and its duplicate yielded the RPD above control limits for hydrogen sulfide and ferrous iron. These compounds were qualified estimated and flagged “J” in both parent and duplicate.

Compound quantitation and reporting limits

Where a dilution was required elevated reporting limits were reported.

The serial dilution of total iron and manganese were above 10%. Since both analytes were also >50x the method detection limit they were qualified estimated, “J” in sample SS17-MW22.

BOD exceeded the duplicate relative percent difference (RPD) limit for all samples in packages FA24564 and FA24537 as well as sample SS17-SS22. Due to low duplicate and sample concentrations the RPDs were acceptable.

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*	Flagging Reason
SS17-MW01	Benzoic Acid Benzidine	UJ UJ	LCS < LCS <<
SS17-MW02	Benzoic Acid Benzidine Ferrous Iron	UJ UJ 0.030 UJ	LCS < LCS < HT
SS17-MW03	Ferrous Iron Nitrate	0.71 J 0.50 UJ	HT HT

Summary of Qualified Data

Sample ID	Parameter	Qualifier*	Flagging Reason
SS17-MW04	Benzene	124 J	MS/MSD
	Bromobenzene	UJ	
	Bromochloromethane	UJ	
	Bromodichloromethane	UJ	
	Bromoform	UJ	
	n-Butylbenzene	UJ	
	sec-Butylbenzene	UJ	
	tert-Butylbenzene	UJ	
	Carbon Disulfide	UJ	
	Carbon Tetrachloride	UJ	
	Chlorobenzene	UJ	
	Chloroform	UJ	
	o-Chlorotoluene	UJ	
	p-Chlorotoluene	UJ	
	Dibromochloromethane	UJ	
	1,2-dibromo-3-chloropropane	UJ	
	1,2-dibromoethane	UJ	
	1,2-Dichlorobenzene	UJ	
	1,3-Dichlorobenzene	UJ	
	1,4-Dichlorobenzene	UJ	
	1,1-Dichloroethane	UJ	
	1,2-Dichloroethane	UJ	
	1,1-Dichloroethylene	UJ	
	Cis-1,2-Dichloroethylene	UJ	
	Trans-1,2-Dichloroethylene	UJ	
	1,2-Dichloropropane	UJ	
	1,3-Dichlroporapne	UJ	
	2,2-Dichloroproapne	UJ	
	1,1-Dichlorpropene	UJ	
	cis-1,3-dichlorpropene	UJ	
	trans-1,3-dichlorpropene	UJ	
	Ethylbenzene	94.8 J	
	Hexachlorobutadiene	UJ	
	Isopropylbenzene	UJ	
	p-Isopropyltoluene	UJ	
	Methylene bromide	UJ	
	Methylene chloride	UJ	
	Methyl Tert Butyl Ether	UJ	
	Naphthalene	UJ	
	n-propylbenzene	6.8 J	
	Styrene	UJ	
	1,1,1,2-Tetrachlorethane	UJ	
	1,1,2,2-Tetrachloroethane	UJ	
	Tetrachloroethylene	UJ	
	Toluene	530 J	
	1,2,3-Trichlorobenzene	UJ	
	1,2,4-Trichlorobenzene	UJ	
	1,1,1-Trichloroethane	UJ	
	1,1,2-Trichloroethane	UJ	
	Trichloroethylene	UJ	
	1,2,3-Trichloropropane	UJ	
	1,2,4-Trimethylbenzene	44.4 J	
	1,3,5-Trimethylbenzene	12.9 J	
	M,p-xylene	272 J	
	o-xylene	107 J	
SS17-MW05	Naphthalene	77.4 J	Dup RPD
	Total Iron	37.1 J	Dup RPD
	Hydrogen Sulfide	25.1 J	Dup RPD
	Ferrous Iron	0.14 J	Dup RPD/HT
	Nitrate	0.50 UJ	HT
SS17-MW05A	Naphthalene	119 J	Dup RPD
	Total Iron	23.9 J	Dup RPD
	Hydrogen Sulfide	38.7 J	Dup RPD
	Ferrous Iron	0.21 J	Dup RPD/HT
	Nitrate	0.50 UJ	HT
SS17-MW06	TKN	1.9 J	MS/MSD >
SS17-MW07	Hydrogen Sulfide	0.63 J	Dup RPD
	Ferrous Iron	0.093 J	Dup RPD/HT
	Nitrate	1.2 J	HT
SS17-MW07A	Hydrogen Sulfide	1.3 J	Dup RPD
	Ferrous Iron	0.062 J	Dup RPD/HT
	Nitrate	1.5 J	HT
	TKN	0.72 J	MS/MSD >
SS17-MW08	2-Chloroehtyl Vinyl Ether	UJ	MS/MSD
	Ethylbenzene	4580 J	
	1,2,4-Trimethylbenzene	799 J	

Summary of Qualified Data

Sample ID	Parameter	Qualifier*	Flagging Reason
SS17-MW09	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	0.030 UJ	HT
	Nitrate	14 J	HT
SS17-MW10	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	0.53 J	HT
	Nitrate	10 UJ	HT
SS17-MW11	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	1.0 J	HT
SS17-MW13	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	0.030 UJ	HT
	Nitrate	3.7 J	HT
SS17-MW17	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	0.030 UJ	HT
	Nitrate	1.3 UJ	HT
SS17-MW21	Ferrous Iron	0.030 UJ	HT
	Nitrate	1.3 UJ	HT
SS17-MW22	Bis(2-Chloroethoxy)methane	UJ	LCS <
	Benzo(b)Fluoranthene	UJ	MS <
	4-Bromophenyl phenyl ether	UJ	MS <
	4-Chloroaniline	UJ	MS <
	2,6-Dinitrotoluene	UJ	MS <
	3-Nitroaniline	UJ	MS <
	Total Iron	5190 J	SD >
	Total Manganese	4730 J	SD >
	Dissolved Manganese	4970 J	MSD <
SS17-MW23	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
SS17-MWBX02	Benzoic Acid	UJ	LCS <
	Benzidine	UJ	LCS <
	Ferrous Iron	0.40 J	HT
	Nitrate	5.0 UJ	HT
	Total Manganese	8160 J	MS/MSD <

* volatiles/semi-volatiles/metals in 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 6, 2015. Six soil samples, one duplicate and associated trip blank 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
SB-301-07	FA24175	Soil	5/6/15	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C)
SB-301-07A				
SB-302-08				
SB-303-09				
SB-304-10				
SB-305-09				
SB-306-09				

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, October 2013) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, October 2013).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exceptions:

-The semi-volatile analysis and extractable TPH analysis of sample SB-301-07A were extracted beyond hold time. The positively identified compounds were qualified estimated, "J" and the non-detected compounds qualified estimated non-detected, 'UJ".

Blanks

No compounds were detected in the trip blank.

The method blank associated with samples SB-301-07 and SB-301-07A reported a low level detection of methylene chloride. The samples were non-detect for this compound and required no qualification.

Laboratory Control Sample (LCS)

The LCS recoveries, associated with sample SB-301-07A, of benzo(a)anthracene, benzo(a)pyrene, butyl benzyl phthalate, dibenzo(a,h)anthracene and isophorone were reported above QC limits. Only benzo(a) anthracene reported a detection and was qualified estimated, "J".

Surrogates

The semi-volatile (confirmatory run) surrogate recoveries for 2,4,6 tribromophenol associated with sample SB-301-07A and its associated MSD were recovered above quality control limits. For SVOC analysis two surrogates must be outside control limits in order to qualify the acid or base fractions. Therefore, no qualification was deemed necessary.

For samples SB-301-07 and SB-302-08, the extractable TPH surrogate recovery was 'diluted out' of the 20x sample dilution. All quality control surrogate recoveries associated with these samples were within control limits and therefore, no qualification was necessary.
Toluene-d8 was recovered below QC limits for the confirmation run of SB-306-09. No analytes were reported from this run and required no qualification.

Matrix spike/matrix spike duplicates (MS/MSD)

Multiple volatile and semi volatile compounds were outside control limits for MS/MSD recoveries. Since the QC samples used were from another batch/lot precision and accuracy were cross reference with the LCS recoveries, which were in control (with the exception of benzo(a)pyrene and isophorone for sample SB-301-07A and previously qualified). No additional qualification of the data was warranted.

The MS/MSD recoveries associated with all samples except SB-301-07A, yielded 2-butanone, ethylbenzene and 1,1,2-trichloroethane above control limits. Additionally, 1,2,4-trimethylbenzene, and 1,3,5-timethylbenzene reported MS and/or MSD recoveries below QC limits. Those detected compounds were qualified estimated, "J", in the parent sample (SB-305-09).

Project specific quality assurance/quality control

One field duplicate sample was submitted as part of this sampling group. The relative percent difference (RPD) for hexane and TPH-DRO 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*
SB-301-07A	Hexane	5510 J
	Benzo(a)anthracene	40.4 J
	Chrysene	24.2 J
	Fluoranthene	165 J
	Fluorene	107 J
	1-Methylnaphthalene	11000 J
	2-Methylnaphthalene	22100 J
	Naphthalene	22700 J
	Phenanthrene	217 J
	Pyrene	124 J
	All non-detected SVOCs	UJ
	TPH-DRO	355 J
	TPH-ORO	UJ
SB-301-07	Hexane	2910 J
	TPH-DRO	1740 J
SB-305-09	Ethylbenzene	9840 J
	1,2,4-Trimethylbenzene	89500 J
	1,3,5-Trimethylbenzene	47100 J

* volatiles/semi-volatiles in µg/kg/TPH in mg/kg

APPENDIX H

Tables

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Table 4-1A
Groundwater Elevation Summary (August 2014)
SS-17 Quarter 5
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (feet)	Easting (feet)	Elevation TOC (ft above msl)	August 26 - 27, 2014 DTW from TOC (ft below TOC)	Groundwater Elevation August 26 - 27, 2014 (ft above msl)
SS17-MW05	1694288.279	668510.213	4073.103	7.12	4065.98
SS17-MW07	1694388.745	668400.576	4072.841	6.94	4065.90
SS17-MW08	1694450.442	668331.376	4072.732	6.18	4066.55
SS17-MW21	1694171.109	668549.133	4071.851	6.02	4065.83
SS17-MW22	1694322.763	668232.435	4073.108	8.46	4064.65
SS17-MW23	1694456.450	668237.256	4072.622	7.46	4065.16

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 2014)
SS-17 Quarter 6
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (feet)	Easting (feet)	Elevation TOC (ft above msl)	November 20, 2014 DTW from TOC (ft below TOC)	Groundwater Elevation November 20, 2014 (ft above msl)
SS17-MW05	1694288.279	668510.213	4073.103	6.31	4066.79
SS17-MW07	1694388.745	668400.576	4072.841	6.25	4066.59
SS17-MW08	1694450.442	668331.376	4072.732	6.26	4066.47
SS17-MW21	1694171.109	668549.133	4071.851	6.25	4065.60
SS17-MW22	1694322.763	668232.435	4073.108	7.80	4065.31
SS17-MW23	1694456.450	668237.256	4072.622	6.79	4065.83

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 2015)
SS-17 Quarter 7
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (feet)	Easting (feet)	Elevation TOC (ft above msl)	February 3, 2015 DTW from TOC (ft below TOC)	Groundwater Elevation February 3, 2015 (ft above msl)
SS17-MW05	1694288.279	668510.213	4073.103	6.09	4067.01
SS17-MW07	1694388.745	668400.576	4072.841	6.01	4066.83
SS17-MW08	1694450.442	668331.376	4072.732	5.91	4066.82
SS17-MW21	1694171.109	668549.133	4071.851	4.88	4066.97
SS17-MW22	1694322.763	668232.435	4073.108	7.93	4065.18
SS17-MW23	1694456.450	668237.256	4072.622	6.64	4065.98

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 2015)
SS-17 Quarter 8
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

Well Point Number	Northing (feet)	Easting (feet)	Elevation TOC (ft above msl)	May 19, 2015 DTW from TOC (ft below TOC)	Groundwater Elevation May 19, 2015 (ft above msl)
SS17-MW01	1694042.326	668696.9715	4072.972	5.98	4066.99
SS17-MW02	1693856.401	668513.9652	4069.805	4.25	4065.56
SS17-MW03	1694111.109	668512.7146	4071.885	5.65	4066.24
W-4	1694326.000	668556.310	4074.617	6.67	4067.95
SS17-MW05	1694288.279	668510.213	4073.103	6.35	4066.75
SS17-MW06	1694213.243	668374.314	4072.876	7.08	4065.80
SS17-MW07	1694388.745	668400.576	4072.841	6.15	4066.69
SS17-MW08	1694450.442	668331.376	4072.732	6.12	4066.61
SS17-MW09	1693964.371	668273.848	4069.403	5.34	4064.06
SS17-MW10	1694097.353	668273.848	4070.914	6.38	4064.53
SS17-MW11	1694191.565	668217.987	4071.224	6.68	4064.54
SS17-MW13	1694065.254	668162.126	4069.525	6.22	4063.31
SS17-MW14	1694582.590	668345.549	4073.39	7.18	4066.21
SS17-MW16	1694796.028	668102.931	4072.325	7.47	4064.86
SS17-MW17	1694109.025	667926.594	4069.629	6.58	4063.05
SS17-MW18	1694300.369	668004.549	4070.142	6.45	4063.69
SS17-MW19	1694205.739	667848.640	4069.508	6.47	4063.04
SS17-MW20	1694452.943	667792.362	4067.820	4.79	4063.03
SS17-MW21	1694171.109	668549.133	4071.851	5.12	4066.73
SS17-MW22	1694322.763	668232.435	4073.108	8.02	4065.09
SS17-MW23	1694456.450	668237.256	4072.622	6.84	4065.78
MW-BX-01	1694460.000	668131.000	4073.317	8.50	4064.82
MW-BX-02	1694228.000	668110	4070.042	6.03	4064.01

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 Data (August 2014)
Hits Only (QTR 5)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05			SS17-MW05A			SS17-MW07			SS17-MW08			SS17-MW21		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA17765-1			FA17765-2			FA17765-3			FA17765-4			FA17738-1		
Date Sampled:				8/27/2014			8/27/2014			8/27/2014			8/27/2014			8/26/2014		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
1,2-Dichloroethane	0.01	0.005	NV	**0.006**	U		**0.006**	U		0.00024	U		**0.012**	U		**0.120**	U	
Benzene	0.01	0.005	NV	**0.0061**	U		**0.0061**	U		0.00024	U		**0.012**	U		**31.30**		
n-Butylbenzene	NV	NV	NV	0.0091	J		0.0076	U		0.0003	U		0.023	J		0.15	U	
sec-Butylbenzene	NV	NV	NV	0.0068	U		0.0068	U		0.00056	J		0.0140	U		0.14	U	
Ethylbenzene	0.70	0.70	NV	**1.860**			**1.860**			0.00028	U		**4.200**			**3.80**		
Isopropylbenzene	NV	NV	NV	0.0461			0.0452			0.0002	U		0.104			0.10	U	
Naphthalene	0.03	0.10	NV	**0.333**			**0.339**			0.001	U		**0.401**			**0.50**	U	
n-Propylbenzene	NV	NV	NV	0.180			0.180			0.00024	U		0.322			0.193	J	
Toluene	0.75	1	NV	0.005	U		0.005	U		0.0002	U		0.010	U		**26.00**		
m,p-Xylene	0.62	10	NV	0.356			0.358			0.00048	U		**4.170**			**10.40**		
o-Xylene	0.62	10	NV	0.005	U		0.005	U		0.0002	U		0.0141	J		**3.45**		
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
Naphthalene	0.03	NV	NV	**0.235**			**0.230**			0.00048	U		**0.275**	A		**0.0311**		
Phenol	0.005	NV	NV	0.0019	U		0.0019	U		0.00048	U		0.00047	U		**1.34**	B	
Metals	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
Iron (Total)	1	0.30	0.30	0.171	J	J	0.108	J	J	0.132	J		0.191	J		**0.375**		
Manganese (Total)	0.2	0.05	0.05	**0.253**		J	**0.238**		J	**0.374**		J	**0.0807**			0.0382		
Manganese (Dissolved)	0.2	0.05 [4]	0.05	**0.231**			**0.239**			**0.368**			**0.078**			0.0348		
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	6.84			6.79			0.0983			22.5			**168**		
TPH-DRO (C10-C22)	32	NV	NV	2.60			2.32			0.134			3.02			7.99		
TPH-ORO (>C22-C36)	32	NV	NV	0.19	U		0.19	U		0.0891	U		0.19	U		0.203	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	0.047	U		0.047	U		0.047	U		0.47			0.280	J	
Iron, Ferrous	NV	0.3	0.3	0.450			0.470			0.190			**0.66**			0.098	J	
Nitrogen, Ammonia	NV	NV	NV	0.900			0.920			0.140			0.43	J		1.100		
Nitrogen, Nitrate	10	10 [4]	NV	0.500	U		0.500	U		1.200			0.50	U		1.300	U	
Nitrogen, Total Kjeldahl	NV	NV	NV	2.200			2.300			1.200			1.30			4.300		
Solids, Total Dissolved	1,000	500 [4]	NV	**3,240**			**3,120**			**2,670**			**2,640**			**3,680**		
Sulfate	NV	250	17,419	1,840			1,880			**1,690**			**1,680**			**2,410**		

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
B = Analyte found in associated Method Blank

[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 Guidelin

Table 5-1A
Summary of Groundwater Analytical Data (August 2014)
Hits Only (QTR 5)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22			SS17-MW23		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA17738-2			FA17738-3		
Date Sampled:				8/26/2014			8/26/2014		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.003			0.00024	U	
Benzene	0.01	0.005	NV	0.00025	J		0.00059	J	
n-Butylbenzene	NV	NV	NV	0.00030	U		0.00030	U	
sec-Butylbenzene	NV	NV	NV	0.00027	U		0.00027	U	
Ethylbenzene	0.70	0.70	NV	0.00028	U		0.00028	J	
Isopropylbenzene	NV	NV	NV	0.00020	U		0.00020	U	
Naphthalene	0.03	0.10	NV	0.001	U		0.001	U	
n-Propylbenzene	NV	NV	NV	0.00024	U		0.00024	U	
Toluene	0.75	1	NV	0.00020	U		0.00020	U	
m,p-Xylene	0.62	10	NV	0.00048	U		0.00048	U	
o-Xylene	0.62	10	NV	0.00020	U		0.00034	J	
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	0.00048	U		0.00048	U	
Phenol	0.005	NV	NV	0.00048	U		0.00048	U	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	**6.06**			0.108	J	
Manganese (Total)	0.2	0.05	0.05	**5.04**			**2.130**		
Manganese (Dissolved)	0.2	0.05 [4]	0.05	**4.68**			**2.040**		
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
TPH-GRO (C6-C10)	32	NV	NV	0.0755	J		0.072		
TPH-DRO (C10-C22)	32	NV	NV	0.291			1.280		
TPH-ORO (>C22-C36)	32	NV	NV	0.280			0.525		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Iron, Ferric	NV	0.3	0.3	3.300			0.110	J	
Iron, Ferrous	NV	0.3	0.3	2.800			0.030	U	
Nitrogen, Ammonia	NV	NV	NV	0.410			0.190		
Nitrogen, Nitrate	10	10 [4]	NV	5.000	U		**13.000**		
Nitrogen, Total Kjeldahl	NV	NV	NV	2.100			1.300		
Solids, Total Dissolved	1,000	500 [4]	NV	**7,640**			**6,730**		
Sulfate	NV	250	17,419	6,590			4,370		

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
B = Analyte found in associated Method Blank

[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 Guid

Table 5-1B
Summary of Groundwater Analytical Data (November 2014)
Hits Only (QTR 6)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05			SS17-MW07			SS17-MW07A			SS17-MW08			SS17-MW21		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA20251-1			FA20251-2			FA20251-3			FA20251-4			FA20162-1		
Date Sampled:				11/24/2014			11/24/2014			11/24/2014			11/24/2014			11/20/2014		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	**0.006**	U		0.00024	U		0.00024	U		**0.012**	U		**0.120**	U	
Benzene	0.01	0.005	NV	**0.0062**	J		0.00024	U		0.00026	J		**0.012**	U		**56.90**	A	
n-Butylbenzene	NV	NV	NV	0.0076	U		0.00030	U		0.00030	U		0.015	U		0.15	U	
sec-Butylbenzene	NV	NV	NV	0.0068	U		0.00200			0.00240			0.014	U		0.14	U	
Ethylbenzene	0.70	0.70	NV	**1.750**			0.00460		J	0.00810		J	**3.400**			**4.59**		
Isopropylbenzene	NV	NV	NV	0.0608			0.00026	J	J	0.00039	J	J	0.068			0.10	U	
Naphthalene	0.03	0.10	NV	**0.419**			0.00270	J		0.00280	J		**0.283**			**0.50**	U	
n-Propylbenzene	NV	NV	NV	0.168			0.00024	U		0.00140			0.230			0.25	J	
Toluene	0.75	1	NV	0.005	U		0.00040	U		0.00050	J		0.010	U		**33.50**		
m,p-Xylene	0.62	10	NV	0.357			0.00180	J		0.00250			**2.850**			**13.00**		
o-Xylene	0.62	10	NV	0.005	U		0.00040	J		0.00050	J		0.012	J		**4.20**		
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	**0.284**			0.00047	U		0.0024	J		**0.1650**			**0.297**		
Phenol	0.005	NV	NV	0.0047	U		0.00047	U		0.00047	U		0.0019	U		**1.42**	b	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	0.025	J		0.261	J		0.295	J		0.0544	J		0.1070	J	
Manganese (Total)	0.2	0.05	0.05	**0.267**			**0.504**			**0.513**	J		**0.231**			0.0129	J	
Manganese (Dissolved)	0.2	0.05	0.05	**0.253**			**0.498**			**0.504**	J		**0.232**			0.0127	J	
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	8.46			0.408			0.475			26.3			**249**		
TPH-DRO (C10-C22)	32	NV	NV	1.37			0.280			0.292			0.8270			14.0		
TPH-ORO (>C22-C36)	32	NV	NV	0.171			0.0738			0.068			0.0873	U		1.23		
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	0.047	U		0.047	U		0.047	U		0.054	J		0.11	J	
Iron, Ferrous	NV	0.3	0.3	0.039	J		0.360			0.340			0.030	U		0.03	U	
Nitrogen, Ammonia	NV	NV	NV	0.500			0.150			0.110			0.100			3.5		
Nitrogen, Nitrate	10	10 [4]	NV	0.500	U		0.780	J		0.710	J		0.500	U		1.3	U, d	J
Nitrogen, Total Kjeldahl	NV	NV	NV	1.300			0.330	J		0.450	J		0.900			5.9		
Solids, Total Dissolved	1,000	500 [4]	NV	**3,070**			**2,630**			**2,600**			**2,510**			**3,560**		
Sulfate	NV	250	17,419	1,820			1,670			1,630			1,610			1,670		

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
A = Result is from Run #2
b = Result is from Run #2
d = Dilution required due to matrix

[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 Data (November 2014)
Hits Only (QTR 6)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22			SS17-MW23		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA20162-2			FA20162-3		
Date Sampled:				11/20/2014			11/20/2014		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.0033			0.00024	U	
Benzene	0.01	0.005	NV	0.00026	J		0.00063	J	
n-Butylbenzene	NV	NV	NV	0.00030	U		0.00030	U	
sec-Butylbenzene	NV	NV	NV	0.00027	U		0.00027	U	
Ethylbenzene	0.70	0.70	NV	0.00028	U		0.00064	J	
Isopropylbenzene	NV	NV	NV	0.00020	U		0.00020	U	
Naphthalene	0.03	0.10	NV	0.00100	U		0.00100	U	
n-Propylbenzene	NV	NV	NV	0.00024	U		0.00024	U	
Toluene	0.75	1	NV	0.00020	U		0.00078	J	
m,p-Xylene	0.62	10	NV	0.00048	U		0.00180	J	
o-Xylene	0.62	10	NV	0.00020	U		0.00100		
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	0.00048	U		0.00063	J	
Phenol	0.005	NV	NV	0.00048	U		0.00075	J	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	**6.74**			**12.50**		
Manganese (Total)	0.2	0.05	0.05	**5.10**			**3.73**		
Manganese (Dissolved)	0.2	0.05	0.05	**5.07**			**3.50**		
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
TPH-GRO (C6-C10)	32	NV	NV	0.0822	J		0.0632	J	
TPH-DRO (C10-C22)	32	NV	NV	0.454			1.61		
TPH-ORO (>C22-C36)	32	NV	NV	0.351			0.813		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**		
Iron, Ferric	NV	0.3	0.3	5			9.90		
Iron, Ferrous	NV	0.3	0.3	7			2.60		
Nitrogen, Ammonia	NV	NV	NV	0.5			1.20		
Nitrogen, Nitrate	10	10 [4]	NV	5.0	U	J	5.00	U	J
Nitrogen, Total Kjeldahl	NV	NV	NV	0.92			0.59		
Solids, Total Dissolved	1,000	500 [4]	NV	**7,020**			**8,250**		
Sulfate	NV	250	17,419	4,380			3,300		

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
A = Result is from Run #2
b = Result is from Run #2
d = Dilution required due to matrix

[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 Data (February 2015)
Hits Only (QTR 7)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05			SS17-MW07			SS17-MW07A			SS17-MW08		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA21899-3			FA21939-1			FA21939-2			FA21939-3		
Date Sampled:				2/4/2015			2/5/2015			2/5/2015			2/5/2015		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L		
1,2-Dichloroethane	0.01	0.005	NV	**0.005**	U		0.0002	U		0.000200	U		0.0010	U	
Benzene	0.01	0.005	NV	**0.163**			**0.0320**		J	**0.01640**		J	**0.0071**		
n-Butylbenzene	NV	NV	NV	0.0064	J		0.00067	J	J	0.00043	J	J	0.0104		
sec-Butylbenzene	NV	NV	NV	0.005	U		0.0012		J	0.00081	J	J	0.0117		
Ethylbenzene	0.70	0.70	NV	**1.700**			0.0744		J	0.04940		J	**3.890**		J
Isopropylbenzene	NV	NV	NV	0.0532			0.0030		J	0.00200		J	0.1050		
Naphthalene	0.03	0.10	NV	**0.183**			0.0076		J	0.00500		J	**0.3820**		
n-Propylbenzene	NV	NV	NV	0.146			0.0115		J	0.00700		J	0.2660		
Toluene	0.75	1	NV	0.342	U		0.1400		J	96.8000		J	0.0661		
m,p-Xylene	0.62	10	NV	0.473			0.1760		J	0.1210		J	**3.9200**		J
o-Xylene	0.62	10	NV	0.0803			0.0738		J	0.0478		J	0.0546		
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L		
Naphthalene	0.03	NV	NV	**0.274**			0.0037	J		0.00400	J		**0.2100**	a	
Phenol	0.005	NV	NV	0.0048	U		0.00048	U		0.00048	U		0.00048	U	
Metals	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L		
Iron (Total)	1	0.30	0.30	0.0818	J		**0.339**			0.0498	J	J	0.0748	J	
Manganese (Total)	0.2	0.05	0.05	**0.314**			**0.372**			**0.391**			**0.0596**		
Manganese (Dissolved)	0.2	0.05	0.05	**0.289**			**0.367**			**0.377**	J		**0.0587**		
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L		
TPH-GRO (C6-C10)	32	NV	NV	6.76			0.844			0.912			21.3		
TPH-DRO (C10-C22)	32	NV	NV	2.16			0.201			0.080			1.23		
TPH-ORO (>C22-C36)	32	NV	NV	0.267			0.128	J		0.141	J		0.08	U	
General Chemistry	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L		
Iron, Ferric	NV	0.3	0.3	0.047	U		0.16	J		0.047	U		0.047	U	
Iron, Ferrous	NV	0.3	0.3	0.48			0.18			0.15			0.22		
Nitrogen, Ammonia	NV	NV	NV	0.39			0.20			0.097	J		0.19		
Nitrogen, Nitrate	10	10 [4]	NV	0.50	U		2.80			2.00			0.5	U	
Nitrogen, Total Kjeldahl	NV	NV	NV	1.10			0.17	U		0.38	J		0.17	U	
Solids, Total Dissolved	1,000	500 [4]	NV	**3,350**			**2,930**			**2,900**			**2,490**		
Sulfate	NV	250	17,419	2,060			1,760			1,960			1,590		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result os from Run #2

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.310
[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 Standar
Bold - indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelin

Table 5-1C
Summary of Groundwater Analytical Data (February 2015)
Hits Only (QTR 7)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW21			SS17-MW22			SS17-MW23		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Basewide Background Levels	FA21899-2			FA21899-1			FA21868-1		
Date Sampled:				2/4/2015			2/4/2015			2/3/2015		
Analyte				Result[3]	Q	Q1	Result[3]	Q	Q1	Result[3]	Q	Q1
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L		
1,2-Dichloroethane	0.01	0.005	NV	**0.020**	U		0.0038			0.0002	U	
Benzene	0.01	0.005	NV	**61.900**	b		0.00020	U		0.00020	U	
n-Butylbenzene	NV	NV	NV	0.000	U		0.00022	U		0.00022	U	
sec-Butylbenzene	NV	NV	NV	0.000	U		0.00020	U		0.00020	U	
Ethylbenzene	0.70	0.70	NV	**5.220**			0.00020	U		0.00020	U	
Isopropylbenzene	NV	NV	NV	0.096	J		0.00020	U		0.20000	U	
Naphthalene	0.03	0.10	NV	**0.397**	J		0.00100	U		0.00100	U	
n-Propylbenzene	NV	NV	NV	0.355			0.00020	U		0.00020	U	
Toluene	0.75	1	NV	**50.500**	b		0.00040	U		0.00040	U	
m,p-Xylene	0.62	10	NV	**14.000**			0.00031	U		0.00031	U	
o-Xylene	0.62	10	NV	**6.220**			0.00020	U		0.00030	J	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L		
Naphthalene	0.03	NV	NV	**0.2980**			0.00048	U		0.00048	U	
Phenol	0.005	NV	NV	**0.7480**			0.00048	U		0.00048	U	
Metals	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L		
Iron (Total)	1	0.30	0.30	0.0688	J		**6.03**			**10.90**		
Manganese (Total)	0.2	0.05	0.05	0.0112	J		**4.82**			**2.36**		
Manganese (Dissolved)	0.2	0.05	0.05	0.0119	J		**4.79**			**2.34**		
Total Petroleum Hydrocarbons	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L		
TPH-GRO (C6-C10)	32	NV	NV	**225**			0.0716	J		0.05	U	
TPH-DRO (C10-C22)	32	NV	NV	20.9			0.200			0.94		
TPH-ORO (>C22-C36)	32	NV	NV	1.57			0.285			0.602		
General Chemistry	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L		
Iron, Ferric	NV	0.3	0.3	0.047	U		3.1			0.9	J	
Iron, Ferrous	NV	0.3	0.3	0.056	J		2.9			10.000		
Nitrogen, Ammonia	NV	NV	NV	2.200			0.560	U	J	0.96		
Nitrogen, Nitrate	10	10[4]	NV	1.300	U		5.0	U		5.0	U	
Nitrogen, Total Kjeldahl	NV	NV	NV	6.100			0.3	J	J	0.2	U	
Solids, Total Dissolved	1,000	500[4]	NV	**3,940**			**7,650**			**6,960**		
Sulfate	NV	250	17,419	1,800			4,090		J	3,340		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result os from Run #2

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.310
[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 Screeni

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW01			SS17-MW02			SS17-MW03			W-4			SS17-MW05		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA24537-2			FA24537-8			FA24564-1			FA24564-10			FA15429-2		
Date Sampled:				5/19/2015			5/19/2015			5/20/2015			5/20/2015			5/20/2014		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
1,2-Dichloroethane	0.01	0.005	NV	0.0002	U		0.0002	U		0.004	U		0.002	U		0.004	U	
Benzene	0.01	0.005	NV	0.0002	U		0.0002	U		**1.37**			**0.124**		J	0.004		
n-Butylbenzene	NV	NV	NV	0.00022	U		0.00022	U		0.0045	U		0.0022	U	J	0.0091	J	
sec-Butylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.004	U		0.002	U	J	0.0089	J	
Ethylbenzene	0.70	0.70	NV	0.0002	U		0.0002	U		0.126			0.0948		J	**2.330**	b	
Isopropylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.0055	J		0.002	U	J	0.0689		
Naphthalene	0.03	0.10	NV	0.001	U		0.001	U		0.0002	U		0.010	U	J	**0.149**		
n-Propylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.0307			0.0068	J	J	0.198		
Toluene	0.75	1	NV	0.0004	U		0.0004	U		0.0258			0.530		J	0.008	U	
m,p-Xylene	0.62	10	NV	0.00031	U		0.00031	U		0.0137	J		0.272		J	0.342		
o-Xylene	0.62	10	NV	0.0002	U		0.0002	U		0.004			0.107		J	0.004	U	
Semi-volatile Organic Compounds	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
Naphthalene	0.03	NV	NV	0.00048	U		0.00056	U		0.0047			0.0029	J		**0.0774**		J
Phenol	0.005	NV	NV	0.00048	U		0.00056	U		0.00047	U		0.00047	U		0.00047	U	
Metals	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L		
Iron (Total)	1	0.30	0.30	0.108	J		0.0450	J		**0.588**			0.0678	J		0.0371	J	
Manganese (Total)	0.2	0.05	0.05	**0.248**			0.0197			**0.483**			0.0068	J		**0.200**		
Manganese (Dissolved)	0.2	0.05	0.05	0.144			0.0189			**0.476**			0.0067	J		**0.229**		
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	0.050	U		0.050	U		3.53			2.100			5.44		
TPH-DRO (C10-C22)	32	NV	NV	0.080	U		0.080			1.02			0.077	U		1.28		
TPH-ORO (>C22-C36)	32	NV	NV	0.080	U		0.145	J		0.163	J		0.077	U		0.138	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	0.11	J		0.047	U		0.079	U		0.068	J		0.047	U	J
Iron, Ferrous	NV	0.3	0.3	0.030	U		0.030	U	J	0.710		J	0.030	U		0.140		
Nitrogen, Ammonia	NV	NV	NV	0.030	U		0.030	U		0.190			0.030	U		0.360		
Nitrogen, Nitrate	10	10 [4]	NV	2.6			4.000			0.500	U	J	4.100			0.500	U	J
Nitrogen, Total Kjeldahl	NV	NV	NV	0.80			0.860			1.000			0.450	J		1.500		
Solids, Total Dissolved	1,000	500 [4]	NV	**2,940**			**4,780**			**3,490**			**2,450**			**3,260**		
Sulfate	NV	250	17,419	1,870			2,960			1,680			1,530			1,910		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

[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 Guidelin

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW05A			SS17-MW06			SS17-MW07			SS17-MW07A			SS17-MW08		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA15429-3			FA24564-5			FA24564-14			FA24564-15			FA24564-6		
Date Sampled:				5/20/2014			5/20/2015			5/20/2014			5/20/2014			5/20/2015		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.004	U		0.001	U		0.00020	U		0.00020	U		**0.010**	U	
Benzene	0.01	0.005	NV	0.004			**0.281**			0.00020	U		0.00020	U		0.0001	U	
n-Butylbenzene	NV	NV	NV	0.0094	J		0.0011	U		0.00022	U		0.00022	U		0.0114	J	
sec-Butylbenzene	NV	NV	NV	0.0094	J		0.0010	U		0.00100			0.00093	J		0.0109	J	
Ethylbenzene	0.70	0.70	NV	**2.400**	b		0.0783			0.0061			0.00520			**4.580**	b	J
Isopropylbenzene	NV	NV	NV	0.0698			0.0023	J		0.00027	J		0.00240	J		0.0904		
Naphthalene	0.03	0.10	NV	**0.179**			0.0065	J		0.0013	J		0.00120	J		**0.317**		
n-Propylbenzene	NV	NV	NV	0.195			0.0070			0.00092	J		0.00081	J		0.286		
Toluene	0.75	1	NV	0.008	U		0.4930	b		0.0004	U		0.00040	U		0.0002		
m,p-Xylene	0.62	10	NV	0.347			0.2070			0.0012	J		0.0010	J		**4.720**		
o-Xylene	0.62	10	NV	0.004	U		0.0890			0.0002	U		0.0002	U		0.0165	J	
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	**0.1190**	b	J	0.0057			0.00048	U		0.00048	U		**0.216**	b	
Phenol	0.005	NV	NV	0.00047	U		0.00047	U		0.00048	U		0.00048	U		0.00094	U	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	0.0239	J	J	**5.18**			0.116	J		0.106	J		0.0969	J	
Manganese (Total)	0.2	0.05	0.05	**0.239**			**1.89**			**0.612**			**0.557**			**0.0508**		
Manganese (Dissolved)	0.2	0.05	0.05	**0.246**			**1.84**			**0.584**			**0.526**			**0.0537**		
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	5.47			2.34			0.233			0.260			20.70		
TPH-DRO (C10-C22)	32	NV	NV	1.34			1.79			0.298			0.272			1.000		
TPH-ORO (>C22-C36)	32	NV	NV	0.124	J		0.428			0.077	U		0.077	U		0.080	U	
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	0.047	U	J	2.800			0.047	U		0.047	U		0.047	U	
Iron, Ferrous	NV	0.3	0.3	0.210			2.400			0.093	J	J	0.062	J	J	0.190		
Nitrogen, Ammonia	NV	NV	NV	0.310			0.450			0.140			0.110			0.180		
Nitrogen, Nitrate	10	10 [4]	NV	0.500	U	J	1.300	U		1.200		J	1.500		J	0.500	U	
Nitrogen, Total Kjeldahl	NV	NV	NV	1.400			1.900		J	0.082			0.720		J	1.200		
Solids, Total Dissolved	1,000	500 [4]	NV	**3,420**			**5,640**			**2,730**			**2,770**			**2,410**		
Sulfate	NV	250	17,419	1,900			3,160			1,720			1,710			1,530		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

[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 Guidelin

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW09			SS17-MW10			SS17-MW11			SS17-MW13			SS17-MW14		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA24537-6			FA24537-1			FA24537-5			FA24537-7			FA24564-13		
Date Sampled:				5/19/2015			5/19/2015			5/19/2015			5/19/2015			5/21/2015		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.00031	J		0.00081	J		**0.0082**			0.0039			0.0010	U	
Benzene	0.01	0.005	NV	0.0002	U		0.0002	U		0.0002	U		0.00020	U		0.00033		
n-Butylbenzene	NV	NV	NV	0.00022	U		0.00022	U		0.00022	U		0.00022	U		0.0011	U	
sec-Butylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.0002	U		0.00020	U		0.0013	J	
Ethylbenzene	0.70	0.70	NV	0.0002	U		0.0002	U		0.0002	U		0.00050	U		0.0900		
Isopropylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.0002	U		0.00020	U		0.0037	J	
Naphthalene	0.03	0.10	NV	0.001	U		0.001	U		0.001	U		0.00100	U		0.0119	J	
n-Propylbenzene	NV	NV	NV	0.0002	U		0.0002	U		0.0002	U		0.00020	U		0.0116	J	
Toluene	0.75	1	NV	0.0004	U		0.0004	U		0.0004	U		0.00040	U		0.2610	J	
m,p-Xylene	0.62	10	NV	0.0003	U		0.00031	U		0.00031	U		0.00031	U		0.2630		
o-Xylene	0.62	10	NV	0.0002	U		0.0002	U		0.0002	U		0.00020	U		0.1080		
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	0.00049	U		0.00048	U		0.00048	U		0.00048	U		0.00510		
Phenol	0.005	NV	NV	0.00049	U		0.00048	U		0.00048	U		0.00048	U		0.00047	U	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	0.0579	J		**2.14**			**3.31**			0.0619	J		**1.1200**		
Manganese (Total)	0.2	0.05	0.05	**0.203**			**2.06**			**2.72**			**0.5530**			0.0509		
Manganese (Dissolved)	0.2	0.05	0.05	0.192			**2.10**			**2.68**			**0.5380**			0.0352		
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	0.050	U		0.050	U		0.211			0.050	U		1.850		
TPH-DRO (C10-C22)	32	NV	NV	0.080	U		0.140	J		0.426			0.080	U		0.447		
TPH-ORO (>C22-C36)	32	NV	NV	0.146	J		0.149	J		0.307			0.140	J		0.0851	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	0.058	J		1.600			2.300			0.062	J		0.960		
Iron, Ferrous	NV	0.3	0.3	0.030	U	J	0.530		J	1.000		J	0.030	U	J	0.160		
Nitrogen, Ammonia	NV	NV	NV	0.030	U		0.150			0.520			0.030	U		0.470		
Nitrogen, Nitrate	10	10 [4]	NV	**14.000**	J	J	**10.000**	U	J	2.500	U		3.700		J	1.300	U	
Nitrogen, Total Kjeldah	NV	NV	NV	1.600			1.400			1.600			1.800			1.300		
Solids, Total Dissolved	1,000	500 [4]	NV	**7,060**			**8,900**			**6,550**			**11,000**			**5,060**		
Sulfate	NV	250	17,419	4,620			5,550			3,450			6,040			2,520		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
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NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

[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 Guidelin

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW16			SS17-MW17			SS17-MW18			SS17-MW19			SS17-MW20		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA24564-12			FA24537-11			FA24564-9			FA24564-11			FA24564-8		
Date Sampled:				5/21/2015			5/19/2015			5/21/2015			5/21/2015			5/20/2015		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.00020	U		0.00033	J		0.0026			0.00051	J		0.00046	J	
Benzene	0.01	0.005	NV	0.00020	U		0.00020	U		0.00020	U		0.00020	U		0.00020	U	
n-Butylbenzene	NV	NV	NV	0.00022	U		0.00022	U		0.00022	U		0.00022	U		0.00022	U	
sec-Butylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.00020	U		0.00020	U		0.00020	U	
Ethylbenzene	0.70	0.70	NV	0.00052	J		0.00020	U		0.00100			0.00071	J		0.00970		
Isopropylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.00020	U		0.00020	U		0.00027	J	
Naphthalene	0.03	0.10	NV	0.00100	U		0.00100	U		0.00100	U		0.00100	U		0.00100	U	
n-Propylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.00020	U		0.00020	U		0.00120		
Toluene	0.75	1	NV	0.00040	U		0.00040	U		0.00040	U		0.00040	U		0.00040	U	
m,p-Xylene	0.62	10	NV	0.00038	J		0.00031	U		0.00082	J		0.00058	J		0.00900		
o-Xylene	0.62	10	NV	0.00020	U		0.00020	U		0.00020	U		0.00020	U		0.00020	U	
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	0.00047	U		0.00048	U		0.00047			0.00047			0.00047	U	
Phenol	0.005	NV	NV	0.00047	U		0.00048	U		0.00047	U		0.00047	U		0.00047	U	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	0.0510	J		0.0659	J		0.0434	J		0.193	J		0.017	U	
Manganese (Total)	0.2	0.05	0.05	0.0030	J		**1.2500**			**5.520**			**1.350**			**0.978**		
Manganese (Dissolved)	0.2	0.05	0.05	0.0035	**J**		**1.1200**	U		**4.950**			**1.240**			**0.999**		
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	0.050	U		0.050	U		0.050	U		0.050	U		0.0665	J	
TPH-DRO (C10-C22)	32	NV	NV	0.080	U		0.080	U		0.077	U		0.103	J		0.077	U	
TPH-ORO (>C22-C36)	32	NV	NV	0.080	J		0.080	U		0.0956	J		0.128	J		0.108	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	0.051	J		0.066	J		0.047	U		0.120	J		0.047	U	
Iron, Ferrous	NV	0.3	0.3	0.030	U		0.030	U	J	0.062	J		0.073	J		0.030	U	
Nitrogen, Ammonia	NV	NV	NV	0.030	U		4.500			0.030	J		6.800			0.200		
Nitrogen, Nitrate	10	10 [4]	NV	**18.400**			1.300	U	J	2.500	U		0.500	U		**11.200**	U	
Nitrogen, Total Kjeldah	NV	NV	NV	0.950			5.300			0.980			7.200			1.700		
Solids, Total Dissolved	1,000	500 [4]	NV	**3,890**			**3,990**			**6,060**			**3,790**			**9,760**		
Sulfate	NV	250	17,419	1,810			2,360			3,440			2,020			4,710		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

[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 Guidelin

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW21		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA24564-4		
Date Sampled:				5/20/2015		
Analyte				Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	**0.0492**	J	
Benzene	0.01	0.005	NV	**57.00**	b	
n-Butylbenzene	NV	NV	NV	0.0175	J	
sec-Butylbenzene	NV	NV	NV	0.0112	J	
Ethylbenzene	0.70	0.70	NV	**4.67**	b	
Isopropylbenzene	NV	NV	NV	0.0953		
Naphthalene	0.03	0.10	NV	**0.408**		
n-Propylbenzene	NV	NV	NV	0.320		
Toluene	0.75	1	NV	**50.40**	b	
m,p-Xylene	0.62	10	NV	**11.80**	b	
o-Xylene	0.62	10	NV	**5.31**	b	
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**		
Naphthalene	0.03	NV	NV	**0.393**		
Phenol	0.005	NV	NV	**0.807**		
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**		
Iron (Total)	1	0.30	0.30	0.0621	J	
Manganese (Total)	0.2	0.05	0.05	0.0158		
Manganese (Dissolved)	0.2	0.05	0.05	0.0178		
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**		
TPH-GRO (C6-C10)	32	NV	NV	**206.0**		
TPH-DRO (C10-C22)	32	NV	NV	17.6		
TPH-ORO (>C22-C36)	32	NV	NV	0.925	J	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**		
Iron, Ferric	NV	0.3	0.3	0.062	J	
Iron, Ferrous	NV	0.3	0.3	0.030	U	J
Nitrogen, Ammonia	NV	NV	NV	1.600		
Nitrogen, Nitrate	10	10 [4]	NV	1.300	U	J
Nitrogen, Total Kjeldahl	NV	NV	NV	7.800		
Solids, Total Dissolved	1,000	500 [4]	NV	**4,400**		
Sulfate	NV	250	17,419	1,730		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels			SS17-MW22			SS17-MW23			MW-BX-01			MW-BX-02		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels	FA24506-1			FA24537-9			FA24564-7			FA24537-10		
Date Sampled:				5/18/2015			5/19/2015			5/20/2015			5/19/2015		
Analyte				Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
1,2-Dichloroethane	0.01	0.005	NV	0.00250			0.00020	U		0.001	U		**0.0376**		
Benzene	0.01	0.005	NV	0.00020	U		0.00056	J		**0.185**			0.00020	U	
n-Butylbenzene	NV	NV	NV	0.00022	U		0.00022	U		0.0011	U		0.00022	U	
sec-Butylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.001	U		0.00041	J	
Ethylbenzene	0.70	0.70	NV	0.00020	U		0.00024	J		0.0851			0.00020	U	
Isopropylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.0023	J		0.00056	J	
Naphthalene	0.03	0.10	NV	0.00100	U		0.00100	U		0.0101	J		0.00100	U	
n-Propylbenzene	NV	NV	NV	0.00020	U		0.00020	U		0.0083			0.00020	U	
Toluene	0.75	1	NV	0.00040	U		0.00040	U		0.473			0.00040	U	
m,p-Xylene	0.62	10	NV	0.00031	U		0.00031	U		0.227			0.00031	U	
o-Xylene	0.62	10	NV	0.00020	U		0.00033	J		0.100			0.00020	U	
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Naphthalene	0.03	NV	NV	0.00048	U		0.00049	U		0.0048			0.00049	U	
Phenol	0.005	NV	NV	0.00048	U		0.00049	U		0.00047	U		0.00049	U	
Metals	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron (Total)	1	0.30	0.30	**5.19**		J	**5.680**			0.146	J		0.987		
Manganese (Total)	0.2	0.05	0.05	**4.73**		J	**2.150**			**1.170**			**8.160**		J
Manganese (Dissolved)	0.2	0.05	0.05	**4.97**		J	**2.080**			**0.988**			**7.600**		
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
TPH-GRO (C6-C10)	32	NV	NV	0.0741	J		0.050	U		1.76			0.326		
TPH-DRO (C10-C22)	32	NV	NV	0.274			0.733			0.225			0.262		
TPH-ORO (>C22-C36)	32	NV	NV	0.246			0.490			0.0999	J		0.280		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Iron, Ferric	NV	0.3	0.3	4.100			3.100			0.150	J		0.590		
Iron, Ferrous	NV	0.3	0.3	1.100			2.600			0.030	U		0.400		J
Nitrogen, Ammonia	NV	NV	NV	0.660			0.750			0.033	J		0.071	J	
Nitrogen, Nitrate	10	10 [4]	NV	2.500	U		**10.000**	U		2.600	U		5.000	U	J
Nitrogen, Total Kjeldahl	NV	NV	NV	2.400			2.600			1.100			0.620		
Solids, Total Dissolved	1,000	500 [4]	NV	**7,290**			**6,850**			**4,390**			**11,400**		
Sulfate	NV	250	17,419	4,320			3,410			2,400			5,900		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

[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 Guidelin

Table 5-1D
Summary of Groundwater Analytical Data (May 2015)
Hits Only (QTR 8)
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Basewide Background Levels
Date Sampled:			
Analyte			
Volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**
1,2-Dichloroethane	0.01	0.005	NV
Benzene	0.01	0.005	NV
n-Butylbenzene	NV	NV	NV
sec-Butylbenzene	NV	NV	NV
Ethylbenzene	0.70	0.70	NV
Isopropylbenzene	NV	NV	NV
Naphthalene	0.03	0.10	NV
n-Propylbenzene	NV	NV	NV
Toluene	0.75	1	NV
m,p-Xylene	0.62	10	NV
o-Xylene	0.62	10	NV
Semi-volatile Organic Compounds	**mg/L**	**mg/L**	**mg/L**
Naphthalene	0.03	NV	NV
Phenol	0.005	NV	NV
Metals	**mg/L**	**mg/L**	**mg/L**
Iron (Total)	1	0.30	0.30
Manganese (Total)	0.2	0.05	0.05
Manganese (Dissolved)	0.2	0.05	0.05
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**
TPH-GRO (C6-C10)	32	NV	NV
TPH-DRO (C10-C22)	32	NV	NV
TPH-ORO (>C22-C36)	32	NV	NV
General Chemistry	**mg/L**	**mg/L**	**mg/L**
Iron, Ferric	NV	0.3	0.3
Iron, Ferrous	NV	0.3	0.3
Nitrogen, Ammonia	NV	NV	NV
Nitrogen, Nitrate	10	10 [4]	NV
Nitrogen, Total Kjeldahl	NV	NV	NV
Solids, Total Dissolved	1,000	500 [4]	NV
Sulfate	NV	250	17,419

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
Q = Qualifier
U = Not detected
b = Result is from Run #2

Table 5-2
Summary of Soil Analytical Data (May 2015)
Hits Only
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	SS17-SB301-07			SS17-SB301-07A			SS17-SB302-08			SS17-SB303-09		
Lab Sample Identification:	NMED Residential Levels[1]	FA24175-1			FA24175-2			FA24175-3			FA24175-4		
Date Sampled:		5/6/2015			5/6/2015			5/6/2015			5/6/2015		
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	0.286	J		0.338			**303**	A		0.053	U	
n-Butylbenzene	3,400	3.72			3.86			26.1			1.98		
sec-Butylbenzene	NV[4]	1.67			1.8			10.3			0.744		
Ethylbenzene	69.6	**73**	A		**71.6**	B		**482**	A		3.73		
Hexane	938	2.91			5.51			262	C		0.312		
Isopropylbenzene	3,210	5.64			5.7			32.6			0.574		
p-Isopropyltoluene	NV[4]	0.769			0.818			4.64			0.514		
Naphthalene	45	15.7	A		15.9	B		**130**			9.51	A	
n-Propylbenzene	NV[4]	16	A		20.6	B		120			2.03		
1,2,4-Trimethylbenzene	62	**75.8**	A		**78.6**	B		**582**	A		9.76		
1,3,5-Trimethylbenzene	780	23.5	A		29.5	B		137			7.17		
Toluene	5,270	4.49			6.4			1.2	A		0.06	J	
m,p-Xylene	NV[4]	109	A		107	B		1.2	A		1.28		
o-Xylene	898	8.76			12			523	A		0.147	J	
Semi-volatile Organic Compounds	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
bis(2-Ethylhexyl) phthalate	347	0.044	U		NA			0.043	U		0.043	U	
1-Methylnaphthalene	160	11	C	J	NA			3.00			2.54		
2-Methylnaphthalene	230	22.1	C	J	NA			6.65			0.283		
Naphthalene	43	22.7	C	J	NA			8.54			0.367		
Phenol	18,300	0.022	U		NA			0.425			0.021	U	
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
TPH-GRO (C6-C10)	1,000[5]	**2,700**			**2,420**			**19,600**			226		
TPH-DRO (C10-C22)	1,000[5]	**1,740**		J	335		J	**2,310**			176		
TPH-ORO (>C22-C36)	1,000[5]	98	U		49	U	J	98	U		23	U	

Notes:

NMED = New Mexico Environmental Department
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/kg = milligrams per kilogram
NV = No value
Q = Qualifier
U = Not detected
J = Estimated value
NA = Not Applicable as sample volume was insufficient

[1] NMED Risk Assessment Guidance for Investigation & Remediation, Soil Screening Levels, Table A-1 (2012a)
[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 (February 2012) and USEPA RSL (April, 2009)
[5] NMED Risk Assessment Guidance for Investigation & Remediation, TPH Screening Guidelines (Residential Direct Exposure) Table 6-3 (2012b)
Bold - indicates analytes above the NMED SSLs
A = Outside control limits due to dilution
B = Sample extracted beyond hold time
C = Result is from Run #2

Table 5-2
Summary of Soil Analytical Data (May 2015)
Hits Only
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**SS17-SB304-10**			**SS17-SB305-09**			**SS17-SB306-09**		
Lab Sample Identification:	**NMED Residential Levels[1]**	FA24175-5			FA24175-6			FA24175-7		
Date Sampled:		5/6/2015			5/6/2015			5/6/2015		
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	0.064	U		0.051	U		0.063	U	
n-Butylbenzene	3,400	0.254	J		6.24			0.063	U	
sec-Butylbenzene	NV[4]	0.152	J		2.56			0.223	J	
Ethylbenzene	69.6	4.18			9.84		J	0.136	J	
Hexane	938	0.160	U		5.99			0.160	U	
Isopropylbenzene	3,210	0.388			5.07			0.063	U	
p-Isopropyltoluene	NV[4]	0.064	U		1.16			0.216	J	
Naphthalene	45	0.368			17.2	C		0.479		
n-Propylbenzene	NV[4]	1.27			24.9	C		0.063	U	
1,2,4-Trimethylbenzene	62	1.85			**89.5**	C	J	0.063	U	
1,3,5-Trimethylbenzene	780	0.245	J		47.1	C	J	0.122	J	
Toluene	5,270	0.064	U		0.051	U		0.063	U	
m,p-Xylene	NV[4]	0.783			31.5	C		0.067	U	
o-Xylene	898	0.064	U		0.401			0.063	U	
Semi-volatile Organic Compounds	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**		
bis(2-Ethylhexyl) phthalate	347	0.045	U		0.04	U		0.043	U	
1-Methylnaphthalene	160	0.034	J		2.18			0.022		
2-Methylnaphthalene	230	0.022	U		0.885	C		0.022	U	
Naphthalene	43	0.022	U		0.332	C		0.022	J	
Phenol	18,300	0.022	U		0.02	U		0.022	U	
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**		
TPH-GRO (C6-C10)	1,000[5]	86.8			**3,930**			326		
TPH-DRO (C10-C22)	1,000[5]	11.6			434			36.4		
TPH-ORO (>C22-C36)	1,000[5]	5.1	U		23	U		5.86	J	

Notes:

NMED = New Mexico Environmental Department
USEPA = United States Environmetal Protection Agency
MCL = Maximum Contaminant Level
mg/kg = milligrams per kilogram
NV = No value
Q = Qualifier
U = Not detected
J = Estimated value
NA = Not Applicable as sample volume was insufficient

[1] NMED Risk Assessment Guidance for Investigation & Remediation, Soil Screening Levels, Table A-1 (2012a)
[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)
[5] NMED Risk Assessment Guidance for Investigation & Remediation, TPH Screening Guidelines (Residential Direct Exposure) Table 6-3 (2012b)
Bold - indicates analytes above the NMED SSLs
A = Outside control limits due to dilution
B = Sample extracted beyond hold time
C = Result is from Run #2

Table 6-1
Summary of Groundwater Analytical Results Above Action Levels
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**	**1,2-Dichloroethane**	**Benzene**	**Ethylbenzene**	**Toluene**	**Naphthalene**	**m,p-xylene**	**o-xylene**	**Napthalene**	**Phenol**	**Iron (total)**	**Manganese (total)**	**Manganese (dissolved)**	**TPH-GRO**	**TDS**
SS17-MW01	05/19/15	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.001 U	0.0031 U	0.0002 U	0.00048 U	0.00048 U	0.108 J	**0.248**	0.144	0.050 U	**2,940**
SS17-MW02	05/19/15	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.001 U	0.0031 U	0.0002 U	0.00056 U	0.00056 U	0.0450 J	0.0197	0.0189	0.050 U	**4,870**
SS17-MW03	05/20/15	0.004 U	**1.37**	0.126	0.0258	0.0002 U	0.0137 J	0.004	0.0047	0.00047 U	**0.588**	**0.483**	**0.476**	3.530	**3,490**
SS17-W-4	05/20/15	0.002 U	**0.124**	0.0948	0.530	0.010 U	0.272	0.107	0.0029	0.00047 U	0.0678 J	0.0068 J	0.0067 J	2.100	**2,450**
SS17-MW05	8/6/13	**0.011 U**	**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**	**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	0.0048 U	**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	**0.012 U**	**0.124**	**2.68**	0.361	**0.214 J**	0.680	0.0778	**0.215**	0.00048 U	0.0245 J	0.176	**0.172**	8.42	**3,120**
	8/27/14	**0.006 U**	**0.0061 U**	**1.86**	0.005 U	**0.333**	0.356	0.005 U	**0.235**	0.0019 U	0.171 J	**0.253**	**0.231**	6.84	**3,240**
	11/24/14	**0.006 U**	**0.0062 J**	**1.75**	0.005 U	**0.419**	0.357	0.005 U	**0.284**	0.0047 U	0.025	**0.267**	**0.253**	8.46	**3,070**
	2/4/15	**0.005 U**	**0.163**	**1.70**	0.342 U	**0.183**	0.473	0.0803	**0.274**	0.0048 U	0.0818 J	**0.314**	**0.289**	6.76	**3,350**
	5/20/15	0.004 U	0.004	**2.330 b**	0.008 U	**0.149**	0.342	0.004 U	**0.0774**	0.00047 U	0.0371 J	**0.200**	**0.229**	5.44	**3,260**
SS17-MW06	05/20/15	0.001 U	**0.281**	0.0783	0.4930 b	0.0065 J	0.207	0.0890	0.0057	0.00047 U	**5.180**	**1.890**	**1.840**	2.34	**5,640**
SS17-MW07	8/6/13	0.00022 U	0.00072	0.0163	0.0015	0.0011 J	0.0015 U	0.00061 J	0.00061 U	0.00053 U	0.215 J	**0.693**	**0.688**	0.592	**2,630**
	11/11/13	0.00022 U	0.00021 U	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 U	0.00024 U	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	0.00048 U	**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**
	8/27/14	0.00024 U	0.00024 U	0.00028 U	0.0002 U	0.001 U	0.00048 U	0.0002 U	0.00048 U	0.00048 U	0.132 J	**0.374**	**0.368**	0.0983	**2,670**
	11/24/14	0.00024 U	0.00024 U	0.00460	0.00040 U	0.00270 J	0.00180 J	0.00040 J	0.00047 U	0.00047 U	0.261 J	**0.504**	**0.498**	0.408	**2,630**
	2/5/15	0.0002 U	**0.0320**	0.0744	0.1400	0.0076	0.176	0.0738	0.0037 J	0.00048 U	**0.339**	**0.372**	**0.367**	0.844	**2,930**
	5/20/15	0.0002 U	0.00020 U	0.0061	0.0004 U	0.0013 J	0.0012 J	0.0002 U	0.00048 U	0.00048 U	0.116 J	**0.612**	**0.584**	0.233	**2,730**
SS17-MW08	8/6/13	**0.011 U**	**0.011**	**4.13**	0.0226 J	**0.415**	**4.58**	0.0164 J	**0.274**	0.0021	0.134 J	**0.204**	**0.221**	30.9	**3,340**
	11/11/13	**0.011 U**	**0.011**	**4.37**	0.0121 J	**0.58**	**5.73**	0.0149	**0.227**	0.0021	0.0923 J	**0.203**	0.187	15.9	**4,040**
	2/6/14	0.0048 U	0.0049 U	**3.58**	0.0155 J	**0.608**	**4.32**	0.0177 J	**0.199**	0.0019 U	0.0455 J	0.102	0.115	32.1	**3,340**
	5/30/14	**0.012 U**	**0.0213**	**2.88**	0.0876	**0.242 J**	**3.58**	0.0496 J	**0.196**	0.00048 U	0.0954 J	0.156	0.167	16.1	**3,170**
	8/27/14	**0.012 U**	**0.012 U**	**4.20**	0.010 U	**0.401**	**4.17**	0.0141	**0.275**	0.00047 U	0.191 J	**0.0807**	**0.078**	22.5	**2,640**
	11/24/14	**0.012 U**	**0.012 U**	**3.40**	0.010 U	**0.283**	**2.85**	0.012 J	**0.165**	0.0019 U	0.0544 J	**0.231**	**0.232**	26.3	**2,510**
	2/5/15	0.0010 U	**0.0071**	**3.89**	0.0661	**0.382**	**3.92**	0.0546	**0.210 a**	0.00048 U	0.0748 J	0.0596	0.0587	21.3	**2,490**
	5/20/15	**0.010 U**	0.0001 U	**4.580 b**	0.0002	**0.317**	**4.72**	0.0165 J	**0.216 b**	0.00094 U	0.0969 J	0.0508	0.0537	20.7	**2,410**
SS17- MW09	5/19/15	0.00031 J	0.0002 U	0.0002 U	0.0004 U	0.0010 U	0.0003 U	0.0002 U	0.00049 U	0.00049 U	0.0579 J	**0.203**	0.192	0.050 U	**7,060**
SS17- MW10	5/19/15	0.00081 J	0.0002 U	0.0002 U	0.0004 U	0.0010 U	0.00031 U	0.0002 U	0.001 U	0.00049 U	**2.14**	**2.06**	**2.10**	0.050 U	**8,900**
SS17- MW11	5/19/15	**0.0082**	0.0002 U	0.0002 U	0.0004 U	0.0010 U	0.00031 U	0.0002 U	0.00048 U	0.00048 U	**3.31**	**2.72**	**2.68**	0.211	**6,550**
SS17- MW13	5/19/15	0.0039	0.0002 U	0.00050 U	0.0004 U	0.0010 U	0.00031 U	0.0002 U	0.00048 U	0.00048 U	0.0619 J	**0.553**	**0.538**	0.050 U	**11,000**
SS17- MW14	5/21/15	0.0010 U	0.00033	0.0900	0.2610	0.0119 J	0.2630	0.1080	0.00510	0.00047 U	**1.12**	0.0509	0.035	1.850	**5,060**
SS17- MW16	5/21/15	0.0002 U	0.0002 U	0.00052 U	0.00040 U	0.0010 U	0.00038 J	0.0002 U	0.00047 U	0.00047 U	0.0510 J	0.0030 J	0.0035 J	0.050 U	**3,890**
SS17- MW17	5/19/15	0.00033 J	0.0002 U	0.0002 U	0.00040 U	0.0010 U	0.00031 J	0.0002 U	0.00048 U	0.00048 U	0.0659 J	**1.25**	**1.120**	0.050 U	**3,990**
SS17- MW18	5/21/15	0.0026	0.0002 U	0.0010	0.00040 U	0.0010 U	0.00082 J	0.0002 U	0.00047	0.00047 U	0.0434 J	**5.52**	**4.950**	0.050 U	**6,060**
SS17- MW19	5/21/15	0.00051 J	0.0002 U	0.00071 J	0.00040 U	0.0010 U	0.00058 J	0.0002 U	0.00047	0.00047 U	0.193 J	**1.35**	**1.240**	0.050 U	**3,790**
SS17- MW20	5/20/15	0.00046 J	0.0002 U	0.0097	0.00040 U	0.0010 U	0.0090	0.0002 U	0.00047 U	0.00047 U	0.017 U	**0.978**	**0.999**	0.0665	**9,760**
SS17-MW21	8/5/13	**0.110**	**49.80**	**7.72**	**67.80**	**0.277**	**21.40**	**9.49**	**0.277**	**0.0509**	**0.882**	**0.618**	**0.68**	**290**	**3,740**
	11/12/13	**0.220 U**	**54.40**	**5.86**	**56.10**	**1.000**	**16.30**	**7.55**	**1.090**	**0.013 U**	**1.440**	**0.261**	**0.247**	**256**	**3,540**
	2/7/14	**0.048 U**	**53.60**	**6.70**	**53.10**	**0.148 J**	**17.90**	**8.45**	**0.274**	**0.271**	**0.386**	0.0622	0.0655	**267**	**3,510**
	5/29/14	**0.120 U**	**45.70**	**3.78**	**28.70**	**0.500 U**	**9.29**	**2.96**	**0.227**	**1.220**	0.154 J	0.0279	0.0339	**185**	**3,290**
	8/26/14	**0.120 U**	**31.30**	**3.80**	**26.00**	**0.500 U**	**10.40**	**3.45**	**0.0311**	**1.34 B**	**0.375**	0.0382	0.0348	**168**	**7,640**
	11/20/15	**0.120 U**	**56.90 b**	**4.59**	**33.50**	**0.50 U**	**13.00**	**4.20**	**0.297**	**1.42 b**	0.1070 J	0.0129 J	0.0127 J	**249**	**3,560**
	2/4/15	**0.020 U**	**61.90 b**	**5.22**	**50.50 b**	**0.397**	**14.00**	**6.22**	**0.298**	**0.748**	0.0688 J	0.0122 J	0.0119 J	**225**	**3,940**
	5/20/15	**0.0492 J**	**57.00 b**	**4.67 b**	**50.40 b**	**0.408**	**11.80 b**	**5.31 b**	**0.393**	**0.807**	0.0621 J	0.0158	0.0178	**206**	**4,400**

Table 6-1
Summary of Groundwater Analytical Results Above Action Levels
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**	**1,2-Dichloroethane**	**Benzene**	**Ethylbenzene**	**Toluene**	**Naphthalene**	**m,p-xylene**	**o-xylene**	**Napthalene**	**Phenol**	**Iron (total)**	**Manganese (total)**	**Manganese (dissolved)**	**TPH-GRO**	**TDS**
SS17-MW22	8/5/13	**0.0052**	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	0.0015	**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	0.0013	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	0.0038	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**
	8/26/14	0.0030	0.00025 J	0.00028 U	0.00020 U	0.0010 U	0.00048 U	0.00020 U	0.00048 U	0.00048 U	**6.06**	**5.04**	**4.68**	0.0755 J	**7,640**
	11/20/14	0.0033	0.00026 J	0.00028 U	0.00020 U	0.0010 U	0.00048 U	0.00020 U	0.00048 U	0.00048 U	**6.74**	**5.10**	**5.07**	0.0822 J	**7,020**
	2/4/15	0.0038	0.00020 U	0.00020 U	0.00040 U	0.0010 U	0.00031 U	0.00020 U	0.00048 U	0.00048 U	**6.03**	**4.82**	**4.79**	0.0716 J	**7,650**
	5/15/15	0.0025	0.00020 U	0.00020 U	0.00040 U	0.0010 U	0.00031 U	0.00020 U	0.00048 U	0.00048 U	**5.19**	**4.73**	**4.97**	0.0741 J	**7,290**
SS17-MW23	8/5/13	0.0011 U	**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	0.00022 U	**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	0.00024 U	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	0.00024 U	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**
	8/26/14	0.00024 U	0.00059 J	0.00028 U	0.00020 U	0.0010 U	0.00048 U	0.00034 J	0.00048 U	0.00048 U	0.108	**2.13**	**2.04**	0.072	**6,730**
	11/20/14	0.00024 U	0.00063 J	0.00064 J	0.00078 J	0.0010 U	0.00180 J	0.0001	0.00048 U	0.00075 J	**12.50**	**3.73**	**3.50**	0.0632 J	**8,250**
	2/3/15	0.00020 U	0.00020 U	0.00020 U	0.00040 U	0.0010 U	0.00031 U	0.00030 J	0.00048 U	0.00048 U	**10.90**	**2.36**	**2.34**	0.050 U	**6,960**
	5/19/15	0.00020 U	0.00056 J	0.00024 J	0.00040 U	0.0010 U	0.00031 U	0.00033 J	0.00049 U	0.00049 U	**5.68**	**2.15**	**2.08**	0.050 U	**6,850**
MW-BX-01	5/20/15	0.001 U	0.185	0.0851	0.4730	0.0101 J	0.2270	0.100	0.0048	0.00047 U	0.146 J	**1.17**	**0.988**	1.760	**4,390**
MW-BX-02	5/19/15	**0.0376**	0.0002 U	0.00020 U	0.00040 U	0.0010 U	0.00031 U	0.0002 U	0.00049 U	0.00049 U	**0.987**	**8.16**	**7.600**	0.326	**11,400**

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
b = Results reported from Run #2

Table 6-2
Summary of Soil Analytical Results Above Action Levels
Holloman Air Force Base, New Mexico
NationView Project No. 11-0019

			VOCs (mg/kg)							SVOCs (mg/kg)		General Chemistry (mg/kg)	
Soil Boring	**Depth (bgs)**	**Date Sampled**	**Benzene**	**Ethylbenzene**	**Toluene**	**Naphthalene**	**m,p-xylene**	**o-xylene**	**1,2,4-Trimethylbenzene**	**Napthalene**	**Phenol**	**TPH-GRO**	**TPH-DRO**
SS17-SB301	**7**	11/06/12	0.059 U	**258**	0.65	**45.10**	38.3	65.30	**95.20**	1.82	.036 U	**4,230**	**65.8**
	8	07/29/14	0.839 J	**163 C**	23.60	**49.10**	115	107	**237 C**	0.316	0.022 U	**4,650**	**436**
	7	05/06/15	0.286 J	**73 A**	4.49	15.700 A	109 A	8.76	**75.80 A**	22.70 C	0.022 U	**2,700**	**1,740**
SS17-SB302	**10**	11/06/12	**185**	**451**	**1,010**	**60.50**	976	470	**478**	48.40	0.687 J	**9,920**	795
	8	07/29/14	**176**	**329**	**1,000**	**67.40**	956	368	**406**	8.54 C	0.425	**14,500**	951
	8	05/06/15	**303 A**	**482 A**	1.2 A	**130**	1.2 A	523 A	**582 A**	8.54	0.425	**19,600**	**2,310**
SS17-SB303	**8**	11/07/12	**68.30**	**106**	174	21.70	207	78.30	**124**	4.51	0.163 J	**4,900**	365.00
	8	07/29/14	0.001 J	0.001 U	0.002 J	0.003 U	0.002 U	0.001 U	0.001 U	0.020 U	0.020 U	3.98 J	4.58
	9	05/06/15	0.053 U	3.73	0.06 J	9.51 A	1.28	0.147 J	9.76	0.367	0.021 U	226	176
SS17-SB304	**8**	11/06/12	1.100 U	**378**	1.34 J	**107**	323	1.30 J	**479**	13.80	0.140 U	**8,270**	474
	10	07/29/14	0.060 U	22.90 C	0.060 U	0.343	0.473 J	0.079 J	0.374	1.57	0.021 U	474	957
	10	05/06/15	0.064 U	4.18	0.064 U	0.368	0.783	0.064 U	1.85	0.022 U	0.022 U	87	12
SS17-SB305	**NA**	10/15/12	0.711	**253**	63.80	**47.50**	721	71.10	**385**	10.20	0.140 U	**5,970**	602
	8	07/29/14	0.064 U	**110 C**	0.064 U	**61.70 C**	331 C	0.975	**384 C**	6.85 C	0.022 U	**6,430**	946
	9	05/06/15	0.051 U	9.84	0.051 U	17.20 C	31.5 C	0.401	**89.50**	0.332 C	0.02 U	**3,930**	434
SS17-SB306	**NA**	10/17/12	0.574 J	14.80	0.310 U	7.980	8.94	0.310 U	49.80	1.67	0.035 U	586	45
	10	07/29/14	0.055 U	0.322	0.055 U	4.400	0.087 U	0.059 U	0.058 J	0.059 J	0.021 U	**1,330**	293
	9	05/06/15	0.063 U	0.136 J	0.063 U	0.479	0.067 U	0.063 U	0.063 U	0.022 J	0.022 U	326	36.4

NOTES:
A = Outside control limits due to dilution
B = Sample extracted beyond hold time
C = Result is from Run #2
U = Not detected
J = Estimated value
NA = Not Available