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**2ND AND 3RD QUARTER 2017 GROUNDWATER MONITORING
AND SYSTEM EVALUATION REPORT
BILL CHUN SERVICE STATION
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA
FUEL LEAK CASE # RO0000382
GEOTRACKER GLOBAL ID # T0600100980**

PREPARED FOR:

Ms. Carolyn C. Fong
Trustee, Lily A. Chun 1991 Trust
720 East Hermosa Drive
San Gabriel, California 91775

PREPARED BY:

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612

December 15, 2017
Project No. 401896004

December 12, 2017

To: Mr. Robert W. Schultz, CHD
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Acknowledgement Statement
2nd and 3rd Quarter 2017 Groundwater Monitoring and System Evaluation Report
Bill Chun Service Station
2301 Santa Clara Avenue
Alameda, California 94501
SLIC # RO0382
Geotracker Global ID # T0600100980

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Carolyn C. Fong, Trustee

Carolyn C. Fong, Trustee
Claimant: Lily Angela Chun 1991 Living Trust
711 E. Hermosa Drive
San Gabriel, California 91775

December 15, 2017
Project No. 401896004

Ms. Carolyn C. Fong
Trustee, Lily A. Chun 1991 Trust
720 East Hermosa Drive
San Gabriel, California 91775

Subject: 2nd Quarter 2017 Groundwater Monitoring and System
Evaluation Report
2301 Santa Clara Avenue
Alameda, California
Fuel Leak Case # RO0000382
GeoTracker Global ID # T0600100980

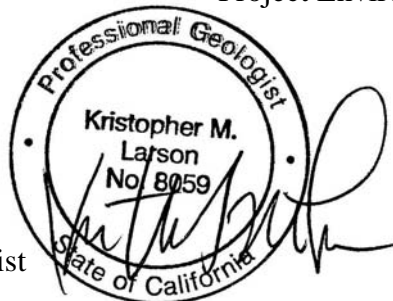
Dear Ms. Fong:

Ninyo & Moore is pleased to present this 2nd and 3rd Quarter 2017 Groundwater Monitoring and System Evaluation Report for the above-referenced site. This report discusses the results and presents conclusions and recommendations of our groundwater monitoring activities, and provides details of the groundwater remediation system operations and maintenance. We appreciate the opportunity to be of service to you on this project.

Sincerely,

Helen Hild
Senior Staff Geologist

Peter D. Sims
Project Environmental Geologist



Kristopher M. Larson, PG 8059
Principal Environmental Geologist

HEH/PDS/KML/vmn

Distribution: (1) Addressee (via e-mail)
(1) Robert Schultz, Alameda County Environmental Health (via e-mail)

TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION	1
1.1. Purpose	1
1.2. Site Description	1
1.3. Site Background.....	1
2. HISTORICAL CONSTITUENT OF CONCERN CONCENTRATIONS IN GROUNDWATER	2
3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE.....	2
3.1. Biweekly O&M	3
3.2. Monthly O&M.....	3
3.2.1. Remediation System Sample Collection.....	3
3.2.2. Remediation System Sample Analysis	4
3.2.3. Remediation System Sample Analytical Results	4
3.3. Bag Filter Change Out and Remediation System Maintenance	4
4. GROUNDWATER MONITORING	5
4.1. Depth to Groundwater Measurement.....	5
4.2. Groundwater Sampling.....	5
4.3. Decontamination Procedures	6
4.4. Investigation Derived Waste.....	6
4.5. Laboratory Analysis.....	7
5. GROUNDWATER SAMPLING RESULTS	7
5.1. Depth to Groundwater and Groundwater Flow Direction	7
5.2. Groundwater Sample Laboratory Results and Screening Levels	8
5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater	8
5.2.2. Benzene in Groundwater.....	10
5.2.3. Other VOCs in Groundwater	11
5.2.4. Bioattenuation Parameters	12
5.2.4.1. Oxidation Reduction Potential	13
5.2.4.2. Dissolved Oxygen	13
5.2.4.3. Nitrate.....	14
5.2.4.4. Ferric Iron.....	14
5.2.4.5. Manganese, Sulfate, and Methane	15
5.2.4.6. Bioattenuation Summary.....	15
6. QUALITY ASSURANCE/QUALITY CONTROL	15
6.1. Laboratory QA/QC Samples.....	16
6.1.1. 2 nd Quarter 2017	16
6.1.2. 3 rd Quarter 2017	16
6.2. Sample Dilutions	17
6.3. QA/QC Conclusions	17
7. REMEDIAL ACTION OBJECTIVES	17

8. CONCLUSIONS	17
9. RECOMMENDATIONS.....	19
10. LIMITATIONS.....	20
11. REFERENCES	22

Tables

- Table 1 – Monitoring Well Inventory
- Table 2 – Remediation System Operations & Maintenance Summary
- Table 3 – Groundwater Elevation Data
- Table 4 – Summary of Groundwater Sample Analytical Results – TPHg and VOCs
- Table 5 – Bioattenuation Monitoring

Graphs

- Graph 1 – TPHg Concentrations in Groundwater
- Graph 2 – Benzene Concentrations in Groundwater

Figures

- Figure 1 – Site Location
- Figure 2 – Site Vicinity
- Figure 3 – Site Plan
- Figure 4 – Remediation System Plan
- Figure 5 – Remediation System Schematic
- Figure 6 – Groundwater Elevation Contour Map, May 17 and 18, 2017
- Figure 7 – Groundwater Elevation Contour Map, September 13 and 14, 2017
- Figure 8 – Total Petroleum Hydrocarbons as Gasoline Concentrations in Groundwater, May 17 and 18, 2017
- Figure 9 – Total Petroleum Hydrocarbons as Gasoline Concentrations in Groundwater, September 13 and 14, 2017
- Figure 10 – Benzene Concentrations in Groundwater, May 17 and 18, 2017
- Figure 11 – Benzene Concentrations in Groundwater, September 13 and 14, 2017
- Figure 12 – Naphthalene Concentrations in Groundwater, May 17 and 18, 2017
- Figure 13 – Naphthalene Concentrations in Groundwater, September 13 and 14, 2017

Appendices

- Appendix A – Historical Constituents of Concern Concentrations
- Appendix B – Operations & Maintenance Field Forms
- Appendix C – Laboratory Analytical Reports
- Appendix D – Groundwater Monitoring Data Sheets

1. INTRODUCTION

Ninyo & Moore has conducted groundwater monitoring and remediation system operations and maintenance (O&M) activities at the Bill Chun Service Station property located at 2301 Santa Clara Avenue in Alameda, California (site). These activities were performed to address the site's subsurface petroleum hydrocarbon impact. This 2nd and 3rd Quarter 2017 Groundwater Monitoring and System Evaluation Report was prepared in general accordance with the proposed methodology presented in the Corrective Action Plan (CAP) dated August 1, 2013 (Ninyo & Moore, 2013a). The CAP was approved in the Alameda County Environmental Health (ACEH) directive letter dated March 17, 2014.

1.1. Purpose

The purpose of this report is to document the field activities performed during the 2nd and 3rd Quarter 2017 relating to the site's remediation system O&M and groundwater monitoring. This report presents the findings of the groundwater sample analysis for site contaminants of concern (COCs), which primarily include total petroleum hydrocarbons as gasoline (TPHg) and benzene. This report also discusses the COC groundwater plumes and bioattenuation parameter trends.

1.2. Site Description

The site is located at 2301 Santa Clara Avenue in the City and County of Alameda, California, as presented on Figure 1. The rectangular lot measures approximately 85 feet long by 40 feet wide. The site is occupied by a small vacant kiosk, a canopy, and a garage. The site is located in a mostly commercial area with some residential buildings, and is bordered by Oak Street to the northwest, a meeting hall and residences to the northeast and east, a retail store to the southeast (formerly Towata Flowers), and by Santa Clara Avenue to the southwest. The site vicinity is presented on Figure 2, with the site plan and adjacent properties presented on Figure 3.

1.3. Site Background

The site is a former gasoline service station, and has been the subject of subsurface assessments, remedial actions, groundwater monitoring, and closure petitions since 1992, when three underground storage tanks (USTs) were removed. The site is listed as a Leaking Underground Storage Tank (LUST) facility in the State Water Resources Control Board

(SWRCB) GeoTracker database and as a Leaking Underground Fuel Tank (LUFT) and Spills, Leaks, Investigation and Cleanup (SLIC) facility in the ACEH database.

Several groundwater monitoring wells were installed on the site in separate occasions during 1993 and 2005. All wells installed in 1993 were either properly abandoned or redeveloped in 2012 for monitoring purposes. Injection wells were installed in 2002, 2004, and 2014, with all 2004 and one 2002 well redeveloped in 2014. The remaining 2002 wells were abandoned. Extraction wells were installed in 2014. An inventory of all of the site's wells is presented in Table 1. Between October and November 2014, the remediation system was installed at the site (Figures 3, 4, and 5). The remediation system began operating on November 21, 2014.

2. HISTORICAL CONSTITUENT OF CONCERN CONCENTRATIONS IN GROUNDWATER

In a directive letter dated September 8, 2011, ACEH requested historical groundwater concentrations in each well be presented in a clear and concise manner. As part of the June 2012 *Well Installation and Groundwater Sampling Report*, Ninyo & Moore obtained historical data from reports found in the online GeoTracker database. Appendix A provides historical groundwater concentrations presented in separate tables for each well through 2011. Groundwater elevation data and groundwater concentrations as of the 2nd and 3rd Quarter 2017 are presented in Tables 2 and 3.

3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE

O&M activities conducted on the site's remediation system include, both, biweekly and monthly events, which for the 2nd and 3rd Quarter 2017 were performed by Ninyo & Moore from April 2017 through September 2017. Remediation system O&M field forms are provided in Appendix B. O&M sampling laboratory analytical reports are provided in Appendix C. Remediation system flow meter readings are presented in Table 2. The analytical laboratory results for the O&M samples collected from the remediation system are presented in Table 4.

3.1. Biweekly O&M

During each biweekly O&M event, the remediation system was checked for proper operation. Pressure gauge and flow meter readings were recorded on field forms. Fifty pounds of Custom Blend Nutrient (CBN) nutrient mix were added to the mixing tank during each biweekly O&M event. Ninyo & Moore continues to add CBN nutrient mix to the mixing tank in order to enhance the bioattenuation process.

3.2. Monthly O&M

On April 28, May 23, June 21, July 19 and August 30, 2017, in addition to the tasks described in Section 3.1, monthly O&M activities included collection of water samples from the remediation system. Influent (INF), granulated activated carbon vessel (GAC), and effluent (EFF) samples were collected from the remediation system at the sample ports shown on Figure 5. The INF sample was collected from the sample port after the bag filter assembly to determine the cumulative concentrations of COCs in water entering the remediation system. The GAC sample was collected from the sample port between the lead and lag GAC vessels to evaluate whether breakthrough of COCs occurred in the lead GAC vessel. The EFF sample was collected from the sample port after the lag GAC vessel to evaluate breakthrough of COCs in the lag GAC vessel. A sample for the September event was not taken, however a sample was taken for the October event. Remediation system samples will continue on a monthly basis, and further discussed in the 4th Quarter 2017 report.

3.2.1. Remediation System Sample Collection

Samples collected from the remediation system sample ports were transferred directly into the appropriate laboratory supplied containers, labeled with the location ID, covered with bubble wrap for protection, placed into a cooler containing ice, and transported under chain-of-custody documentation to TestAmerica, a State of California Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory located in Pleasanton, California.

3.2.2. Remediation System Sample Analysis

Remediation system samples were analyzed by TestAmerica for TPHg and volatile organic compounds (VOCs), which include benzene, using United States Environmental Protection Agency (USEPA) Method 8260B.

3.2.3. Remediation System Sample Analytical Results

The analytical results for remediation system samples are presented in Table 4. Concentrations of TPHg and benzene in samples collected at INF increased in April and May, decreased in June, slightly increased in July, and decreased in August. The increasing trends are likely caused by mobilization of the contaminated groundwater plume toward the extraction wells. The increased concentrations of contaminants in groundwater move through the subsurface where they are treated by bioattenuation and are eventually captured by the remediation system through the extraction wells.

The samples collected at GAC and EFF were non-detect for the site COCs analyzed. This indicates the lead GAC vessel is effectively treating desorbed contaminants in the influent water, and the amended water pumped back into the subsurface contains no detectable concentrations of site COCs. In addition, change out of the granulated carbon in the lead GAC vessel is not yet needed.

3.3. Bag Filter Change Out and Remediation System Maintenance

The remediation system's bag filters were replaced on April 3, April 12, May 11, June 21, July 11, August 9, August 22, September 7 and September 26, 2017, due to elevated pressure readings. During these replacements, a yellowish-brown bacterial slime was observed in the bag filters, which is evidence of biofouling. The slimy consistency is attributed to bacterial growth and the reddish brown color signifies ferric iron precipitate. Biofouling in the bag filters is expected and indicates the remediation system is operating properly by encouraging bacterial growth. The used bag filters are securely stored in the site's garage pending proper waste characterization and offsite disposal.

On May 11, 2017, the remediation system's oxygen pump solenoid was replaced. This solved an irregular problem of injection water flowing back into the remediation system at the end of the injection cycle. The backflow would cause a low pressure alarm and system shut down. Replacement of the oxygen pump solenoid prevented backflow from occurring and low pressure alarms and shut downs have not occurred since the oxygen pump solenoid was replaced.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 2nd Quarter 2017 groundwater monitoring event on May 17th and 18th, 2017 and the 3rd Quarter 2017 groundwater monitoring event on September 13th, 14th, and 27th, 2017. Several sample containers from the September 13th and 14th events were either broken or frozen upon receipt at the laboratory. The September 27th event was conducted to replace these broken sample containers. The following wells were included in the groundwater monitoring program: MW-4R, MW-5R, MW-6R, MW-7R, MW-8, MW-9, MW-10, MW-11R, MW-12, MW-13, MW-14, MW-15, and MW-16.

4.1. Depth to Groundwater Measurement

Prior to groundwater sampling, depth-to-groundwater measurements were obtained from each well. In order to allow the groundwater level to reach equilibrium, the well caps were removed approximately 20 minutes prior to measurement. The depth to static groundwater was measured from the top of casing using a water level meter accurate to 0.01 feet. The water-level meter was decontaminated between wells. The remediation system continued operating during collection of depth to groundwater measurements. Therefore, shallow groundwater elevation contours illustrated on Figure 6 show the influence the remediation system is exerting on groundwater gradients at the site and its surrounding vicinity.

4.2. Groundwater Sampling

Prior to sample collection, a minimum of three casing volumes of groundwater were purged from each monitoring well using a peristaltic pump or disposable bailer. Dedicated pump tubing and/or new disposable bailers were used in each well to minimize the likelihood of

cross contamination between wells. Groundwater parameters (pH, temperature, electrical conductivity, dissolved oxygen, and oxidation-reduction potential) and physical characteristics (odor and color) were recorded during purging. Copies of the groundwater sampling field data sheets are provided in Appendix D.

Subsequent to purging, groundwater samples were collected from each well using a peristaltic pump or disposable bailer. During sample collection, the pump was operated at low speed to minimize disturbance of groundwater. The groundwater samples were collected in the appropriate laboratory-provided sample containers, labeled with the well ID, covered with bubble wrap for protection, placed into a cooler containing ice, and transported under chain-of-custody documentation to TestAmerica.

4.3. Decontamination Procedures

Reusable equipment that came into contact with groundwater was decontaminated to assure the quality of samples collected and reduce potential cross contamination. Dedicated pump tubing or new disposable bailers were employed at each well during purging to prevent cross contamination. Disposable equipment intended for one-time use and disposal was not decontaminated. Decontamination occurred prior to and after each use of a piece of reusable equipment which came in contact with groundwater. Decontamination was performed using a triple rinse consisting of an initial rinse with a non-phosphate based detergent solution, a secondary rinse in distilled water, and a final rinse in distilled water. Nitrile gloves were changed between each sample collection to minimize the likelihood of cross contamination.

4.4. Investigation Derived Waste

Investigation-derived waste (IDW) consisting of purged groundwater and decontamination rinsate water was stored in properly labeled 55-gallon steel drums, which were left in a secure location on the site. Following waste profiling, the 55-gallon drums of IDW are transported by a California licensed waste hauler to an appropriate facility for disposal as non-hazardous waste. Copies of the waste disposal documentation are maintained in the project files. Disposable equipment intended for one time use (nitrile gloves, bailers, etc.) were disposed of as municipal waste.

4.5. Laboratory Analysis

The groundwater samples collected from each well were analyzed by TestAmerica for:

- TPHg by USEPA Method 8021;
- VOCs by USEPA Method 8260B;
- Ferric iron by calculation;
- Ferrous iron by Standard Method (SM) 3500-Fe D;
- Iron by USEPA Method 200.7;
- Nitrate and nitrite by USEPA Method 300.0; and
- Nitrogen as ammonia by SM 4500-NH3 D.

5. GROUNDWATER SAMPLING RESULTS

The following section summarizes the results of the 2nd and 3rd Quarter 2017 Groundwater Monitoring events and presents a discussion of the groundwater monitoring trends. Groundwater elevation contours are illustrated on Figure 6 and Figure 7, and isoconcentration maps of TPHg, benzene, and naphthalene are illustrated on Figure 7 through Figure 14. Groundwater elevation data is summarized in Table 3, and groundwater sample analytical results are presented in Table 4 and Table 5. Trends in TPHg concentrations in groundwater for select wells are presented on Graph 1. Trends in benzene concentrations in groundwater for select wells are presented on Graph 2.

5.1. Depth to Groundwater and Groundwater Flow Direction

The groundwater level measurements and the calculated groundwater elevations are presented in Table 3. Groundwater elevation contours for 2nd Quarter are shown on Figure 6 and 3rd Quarter groundwater elevation contours are shown on Figure 7. Based on the contours shown on Figures 6 and 7, the groundwater gradient appears to be strongly influenced by the operation of the remediation system. Groundwater elevation has been, historically, highest at MW-7R since the remediation system began operation. In 2nd Quarter 2017, groundwater elevations range from 19.72 feet above mean sea level (ft msl) at wells

MW-4R and MW-15 to 21.27 ft msl at well MW-7R. In 3rd Quarter 2017, groundwater elevations range from 18.59 ft msl at wells MW-11R and MW-15 to 20.30 ft msl at well MW-7R. The groundwater elevation gradient slopes downward most steeply to the west-southwest towards extraction well EW-20 and to the northeast toward extraction wells EW-21 and EW-22, demonstrating the effect of the remediation system influencing and controlling groundwater flow beneath the site.

5.2. Groundwater Sample Laboratory Results and Screening Levels

A summary of the groundwater sample analytical results is presented in Tables 4 and 5, and a copy of the certified TestAmerica analytical laboratory reports are provided in Appendix C. For the purposes of this report the laboratory results are compared against the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) Table GW-5 Odor Nuisance Levels, Non-Drinking Water, dated February 2016 (Revision 3). Previous groundwater analytical results have been compared to earlier versions of the ESLs, and most recently, the ESLs for Groundwater Vapor Intrusion Human Health Risk Levels. Since the submittal of the 1st Quarter 2017 Groundwater Monitoring Report, Ninyo & Moore has submitted a Vapor Intrusion Assessment Report to ACEH on July 7, 2017. Ninyo & Moore has concluded that the groundwater ESLs for vapor intrusion are no longer applicable as soil vapor data is now available for the site. The ESLs have been updated to the more applicable odor nuisance levels. As discussed in Section 7, the remedial action objectives are to meet the criteria established in the SWRCB *Low-Threat Underground Storage Tank Case Closure Policy (LTCP)*, adopted May 1, 2012. Therefore, the ESL for benzene has been replaced with the benzene in groundwater specific criteria (2) d of the LTCP of 3,000 micrograms per liter ($\mu\text{g/L}$), which is more conservative than the ESL Table GW-5 Odor Nuisance Level, Non-Drinking Water, for benzene of 20,000 $\mu\text{g/L}$.

5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater

Concentrations of TPHg in shallow groundwater in 2nd Quarter 2017 are presented on Figure 7. TPHg was not detected above the laboratory reporting limit (RL) of 50 $\mu\text{g/L}$ in wells MW-9, MW-10, MW-13, MW-15, and MW-16 in 2nd Quarter 2017. TPHg was

reported in 8 wells at detectable concentrations ranging from 57 µg/L (well MW-6R) to 85,000 µg/L (well MW-7R). The ESL for TPHg is 5,000 micrograms per liter (µg/L).

Trends in TPHg concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 1, and are discussed below:

- The TPHg concentration in the groundwater samples collected from wells MW-4R, MW-5R, MW-7R, MW-11R, and MW-14 have increased since the 1st Quarter 2017 (previous) monitoring event. MW-7R lies in the center of the contaminated groundwater plume and is indicative of an increased mass of contamination migrating toward the extraction wells. The increase of TPHg concentrations in the groundwater samples collected from wells MW-4R, MW-5R, MW-11, and MW-14, which are down gradient relative to the groundwater flow direction induced by the remediation system, are likely due to variability in the plume concentrations as the contaminated groundwater plume migrates toward the extraction wells.
- TPHg concentrations in groundwater samples collected from wells MW-6R and MW-12 have decreased and remained stable, respectively, since the previous monitoring event. Decreases and stability in TPHg concentrations in these wells indicates that progress is being made in reducing the overall size of the plume.

Concentrations of TPHg in shallow groundwater in 3rd Quarter 2017 are presented on Figure 8. In 3rd Quarter 2017, TPHg was not detected above the RL of 50 µg/L in wells MW-4R, MW-9, MW-10, MW-13, MW-15, and MW-16. TPHg was reported in 7 wells at detectable concentrations ranging from 75 µg/L in well MW-6R to 48,000 µg/L in well MW-5R.

Trends in TPHg concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 1, and are discussed below:

- The TPHg concentration in the groundwater samples collected from wells MW-5R, MW-6R, MW-11R, MW-12 and MW-14 have increased since the 2nd Quarter 2017 monitoring event. An increase in the TPHg concentration in MW-5R is likely due its proximity to extraction well EW-20 and the contaminated groundwater plume migration during remediation system operations. TPHg concentration increases in wells MW-11R, MW-12 and MW-14 are likely because they are located down

gradient of the hydrocarbon plume, relative to the groundwater flow direction induced by the remediation system, and are likely due to variability in the plume concentrations as the plume migrates toward the extraction wells.

- The TPHg concentrations in groundwater samples collected from wells MW-4R and MW-7R have decreased since 2nd Quarter 2017. Decreases in TPHg concentrations in these wells indicate that progress is being made in reducing the overall size of the plume. MW-7R lies in the center of the contaminated groundwater plume and has had the highest detected historical concentrations of TPHg. A decrease TPHg concentrations in MW-7R indicates progress is being made in reducing the gross contamination of the plume.

5.2.2. Benzene in Groundwater

Benzene concentrations in shallow groundwater from 2nd Quarter 2017 are presented on Figure 9. Benzene was not detected above the RL in wells MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16. Benzene was reported at detectable concentrations ranging from 3.3 µg/L in well MW-8 to 1,800 µg/L in well MW-14. The benzene in groundwater specific criteria (2) d of the LTCP is 3,000 micrograms per liter (µg/L).

Trends in benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 2, and are discussed below:

- Benzene concentrations in groundwater samples collected from wells MW-4, MW-5R, MW-11R, and MW-14 have increased since the previous monitoring event. An increase in the benzene concentration in MW-5R is likely due its proximity to extraction well EW-20 and the contaminated groundwater plume migration during remediation system operations.
- The increase of benzene concentrations in the groundwater samples collected from wells MW-4R, MW-5R, MW-11 and MW-14, which are down gradient relative to the groundwater flow direction induced by the remediation system, are likely due to variability in the plume concentrations as the contaminated groundwater plume migrates toward the extraction wells.
- Benzene concentrations in groundwater samples collected from wells MW-6R and MW-12 have decreased and remained stable, since the previous monitoring event. The decrease and stability in concentrations at these monitoring wells indicates that the remediation system is successfully treating the plume.

Benzene concentrations in shallow groundwater from 3rd Quarter 2017 are presented on Figure 10. Benzene was not detected above the RL of 0.50 µg/L in wells MW-6R, MW-9, MW-10, MW-13, and MW-15 or above the RL of 250 µg/L in MW-7R. Benzene was reported at detectable concentrations in 7 wells ranging from 1.3 µg/L in well MW-4R to 5,000 µg/L in well MW-5R.

Trends in benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 2, and are discussed below:

- Benzene concentrations in the groundwater sample collected from well MW-5R, has increased since 2nd Quarter 2017. The increase seen in this benzene concentration is likely due its proximity to extraction well EW-20 and the contaminated groundwater plume migration during remediation system operations. This concentration is the highest concentration of benzene detected in MW-5R, however it is still within the historical ranges seen at the site.
- Benzene concentrations in groundwater samples collected from wells MW-4R, MW-7R, MW-11R, MW-12 and MW-14 have decreased since 2nd Quarter 2017. Well MW-6R has remained below the RL since 4th Quarter 2016. The decrease and stability in concentrations at these monitoring wells indicates that the remediation system is successfully treating the plume.

5.2.3. Other VOCs in Groundwater

Other VOCs detected in the 2nd Quarter groundwater samples at concentrations which exceeded their respective ESLs included ethylbenzene, naphthalene, toluene and total xylenes, which are further described below.

- Ethylbenzene concentrations were detected above the ESL of 300 µg/L in 5 wells. Detectable concentrations of ethylbenzene ranged from 1.5 µg/L in MW-8 to 1,400 µg/L in MW-7R.
- Naphthalene concentrations were detected above the ESL of 210 µg/L in 3 wells. Detectable concentrations of naphthalene ranged from 26 µg/L in MW-8 to 740 µg/L in MW-7R.
- Toluene concentrations were detected above the ESL of 400 µg/L in 5 wells. Detectable concentrations of toluene ranged from 3.0 µg/L in MW-12 to 4,000 µg/L in MW-7R.

- Total xylenes concentrations were detected above the ESL of 5,300 µg/L in 2 wells. Detectable concentrations of total xylenes ranged from 9.3 µg/L in MW-8 to 22,000 µg/L in MW-7R.

Other VOCs detected in the 3rd Quarter groundwater samples at concentrations which exceeded their respective ESLs included ethylbenzene, naphthalene, toluene and total xylenes, which are further described below.

- Ethylbenzene concentrations were detected above the ESL of 300 µg/L in 4 wells. Detectable concentrations of ethylbenzene ranged from 0.55 µg/L in MW-4R to 2,100 µg/L in MW-5R.
- Naphthalene concentrations were detected above the ESL of 210 µg/L in 4 wells. Detectable concentrations of naphthalene ranged from 1.8 µg/L in MW-6R to 700 µg/L in MW-7R.
- Toluene concentrations were detected above the ESL of 400 µg/L in 4 wells. Detectable concentrations of toluene ranged from 1.6 µg/L in MW-16 to 8,600 µg/L in MW-5R.
- Total xylenes concentrations were detected above the ESL of 5,300 µg/L in 3 wells. Detectable concentrations of total xylenes ranged from 1.7 µg/L in MW-6R to 16,000 µg/L in MW-7R.

5.2.4. Bioattenuation Parameters

Groundwater samples were submitted for laboratory analysis of iron, nitrate, nitrite, ferrous iron, ferric iron, and nitrogen as ammonia. Groundwater temperature, conductivity, pH, oxidation-reduction potential (ORP), and dissolved oxygen (DO) were measured in the field using a hand-held Horriba U-53 field meter in 2nd Quarter and a YSI ProDDS field meter in 3rd Quarter 2017.

The bioattenuation process remediating the site's groundwater plume can occur in either aerobic or anaerobic conditions, which is generally indicated by positive or negative ORP values, respectively. Aerobic bioattenuation takes place as aerobic respiration and is evaluated by DO concentrations. Anaerobic bioattenuation takes place as anaerobic respiration and occurs in five typical stages: denitrification, manganese reduction, ferric iron reduction, sulfate reduction, and methanogenesis.

5.2.4.1. *Oxidation Reduction Potential*

ORP is a measure of electron activity and is an indicator of the relative tendency of a solute species to gain or lose electrons. ORP values in groundwater generally range from -400 millivolts (mV) to 800 mV (USEPA, 2016). Positive ORP values in groundwater are generally indicative of aerobic reducing conditions and negative ORP values are generally indicative of anaerobic reducing conditions. ORP values recorded during the 2nd Quarter 2017 monitoring event ranged from -126.0 mV to 277 mV and from 253.3 mV to 339.3 mV during the 3rd Quarter 2017 monitoring event. Since the remediation system startup, ORP values have overall remained positive or trended toward more positive values. Since the previous quarter, ORP values in the monitoring wells have all increased.

5.2.4.2. *Dissolved Oxygen*

DO is the most thermodynamically favored electron acceptor in the bioattenuation of petroleum hydrocarbons. Because water monitored for DO is easily oxygenated, it is difficult to accurately quantify DO. Therefore, individual DO concentrations are evaluated relative to the range of DO concentrations recorded during a groundwater monitoring event (USEPA, 2016). DO concentrations recorded during the 2nd Quarter 2017 monitoring event ranged from 1.54 milligrams per liter (mg/L) to 7.05 mg/L. DO concentrations recorded during the 3rd Quarter 2017 monitoring event ranged from 7.5 mg/L to 8.65 mg/L. Levels of DO in 2nd Quarter were generally lower than those levels in the previous quarter, however levels of DO in 3rd quarter increased since 2nd Quarter 2017. Overall, dissolved oxygen conditions are favorable to aerobic respiration and reduction of petroleum hydrocarbons. Aerobic biodegradation is most favorable above 2 mg/L (USEPA, 2016). Of the 13 wells sampled, 12 wells during 2nd Quarter and 13 wells during 3rd Quarter were above 2 mg/L.

5.2.4.3. Nitrate

Nitrate can be consumed during the anaerobic biodegradation of petroleum hydrocarbons after DO has been depleted in groundwater. Nitrate can also be consumed concurrently with DO in the aerobic biodegradation of petroleum hydrocarbons by facultative microbes. In this process, called denitrification, nitrate is reduced to nitrite and ultimately nitrogen gas (USEPA, 2016). Biweekly addition of the CBN to the amended water injected into the subsurface had increased the concentration of nitrate in groundwater from background levels since the June 25 and 26, 2014 monitoring event conducted prior to remediation system startup.

Nitrate concentrations increased in monitoring wells MW-6R, MW-7R, MW-8, and MW-14 during 2nd Quarter 2017 and in MW-9, MW-10, MW-15 and MW-16 in 3rd Quarter 2017. Nitrite concentrations have increased greatly relative to the previous monitoring event in well MW-7R. The increasing nitrate concentrations are likely due to the addition of CBN to the groundwater remediation system. Increasing concentrations of nitrite and nitrogen are likely due to either anaerobic or aerobic denitrification.

5.2.4.4. Ferric Iron

Ferric iron can be reduced to ferrous iron after DO and nitrate are depleted in anaerobic reducing conditions in groundwater. Ferrous iron is soluble in water and its presence in groundwater samples is an indication that reduction of ferric iron has occurred (USEPA, 2016). The concentration of ferrous iron reported in wells ranged from concentrations of 0.10 mg/L in MW-7R to 3.9 mg/L in MW-4R in the 2nd Quarter and from 0.10 mg/L in MW-9 to 3.9 mg/L in MW-8. Generally, the concentration of ferric iron is higher in relation to the concentrations reported of ferrous iron. The presence of detectable ferrous iron concentrations may be caused by reduction of ferric iron to ferrous iron due to microbial utilization in the subsurface. However, the relatively lower concentrations of ferrous iron compared

to concentrations of ferric iron indicate that ferrous iron reduction is not occurring strongly in the groundwater plume.

5.2.4.5. *Manganese, Sulfate, and Methane*

Because neither manganese reduction, sulfate reduction, nor methanogenesis (carbon dioxide reduction) has been demonstrated to be a significant driver of bioattenuation at the site, manganese, sulfate, and methane were not analyzed during the 2nd Quarter 2017 event.

5.2.4.6. *Bioattenuation Summary*

During previous quarters, since the remediation system start up until the 2nd quarter 2016, the monitored wells were trending toward ORP values that remained positive or were trending toward more positive values indicating a gradual shift toward stronger aerobic bioattenuation. An increase in the amount of CBN nutrient mixture and EZT-EA biosurfactant added to the system shifted overall ORP values towards a negative trend from the 2nd quarter of 2016 to the 4th quarter 2016 groundwater monitoring event. During the previous year, ORP values returned to positively trending. During the current groundwater monitoring events, 7 of the 13 and all 13 monitoring wells have had positive ORP values in the 2nd and 3rd Quarters, respectively. In addition, wells overall had relatively higher recorded DO levels this quarter. More aerobic conditions now appear to be occurring across the site. Based on these parameters, continued microbial activity in the subsurface appears to be taking place. During future O&M events, Ninyo & Moore will continue to evaluate the oxygen injection rates and injection pressures of the remediation system with the goal of producing positive ORP values and higher concentrations of DO in all wells in future groundwater monitoring events.

6. QUALITY ASSURANCE/QUALITY CONTROL

Upon collection, groundwater samples were immediately placed on ice for storage during field activities, pending transportation to the laboratory. At the conclusion of the sampling event, the

samples were transferred to TestAmerica, a California ELAP certified laboratory, in Pleasanton, California, under the appropriate chain-of-custody documentation.

6.1. Laboratory QA/QC Samples

The laboratory analyses followed the approved methods. Laboratory QA/QC samples included method blanks (MB), laboratory control samples (LCS), matrix spikes (MS), and matrix spike duplicates (MSD).

6.1.1. 2nd Quarter 2017

- The LCS for analytical batch 490-433332 exceeded the recovery limit for dichlorodifluoromethane. The field samples were non-detect for this analyte; the data were not qualified.
- The relative percent difference (RPD) of the LCS and laboratory control sample duplicate (LCSD) for analytical batch 490-433653 exceeded the control limit for cis-1,2-Dichloroethene. The field sample was non-detect for this analyte; the data were not qualified.
- The RPD of the LCS and LCSD for batch 433332 exceeded the RPD control limits for the following analytes: Carbon disulfide, Benzene, Methylene Chloride and trans-1,2-Dichloroethene. The field samples were not affected; the data were not qualified.
- MW-5R, MW-7R, MW-11R and MW-14 were diluted due to the nature of the sample matrix; elevated RLs are provided.
- Reanalysis of sample MW-6R was performed outside of the analytical holding time due to sample dilution required and prepared after hold time; the data are qualified with a J.
- The relevant QA/QC results were satisfactory and acceptable with the exceptions noted.

6.1.2. 3rd Quarter 2017

- The LCS for analytical batch 230529 exceeded the recovery limit for carbon disulfide. The field samples were non-detect for this analyte; the data were not qualified
- The sample container for MW-15 contained significant headspace, all detects were qualified with a J and all non-detects were qualified with a UJ.

- THPg concentrations reported in samples MW-5R, MW-7R, MW-11R, and MW-12 were due to the presence of discrete peaks. No samples were qualified.
- MW-5R, MW-7R, and MW-12 were diluted due to the nature of the sample matrix; elevated RLs are provided.
- The relevant QA/QC results were satisfactory and acceptable with the exceptions noted.

6.2. Sample Dilutions

Due to the high concentrations of petroleum constituents and/or possible matrix interference in some of the samples, dilution factors ranging from 1 to 50 were required prior to analysis of groundwater samples. Because of the required sample dilution, detection limits were increased in these samples.

6.3. QA/QC Conclusions

No outstanding issues were identified during the course of the QA/QC review. Overall, the presented data are reliable and useable for project decision making.

7. REMEDIAL ACTION OBJECTIVES

The ultimate objectives of remedial activities in the plume area are to reduce the concentrations of COCs in soil, soil vapor, indoor air, and groundwater to less than the RWQCB ESLs, and to ensure that the risk to human health and the environment is less than risk thresholds. The immediate objective of the remedial activities is to reduce the concentrations of COCs in groundwater such that the regulatory limits will be achieved through natural attenuation processes within a reasonable time frame and pose a low threat to human health and the environment as specified in the *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP), adopted May 1, 2012 by the SWRCB.

8. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between April and September 2017. Biweekly and monthly O&M activities included monitoring the

remediation system for proper operation and adding biological amendments (CBN nutrient mix) to the remediation system.

- Collection of remediation system samples was performed on April 28, May 23, June 21, July 19, and August 30, 2017. Analysis of remediation system samples indicated that the remediation system is operating properly. No breakthrough of COCs were noted in the GAC or EFF samples these quarters.
- The 2nd Quarter 2017 groundwater monitoring and sample collection was performed on May 17th and 18th, 2017.
 - Based on depth to water measurements collected during the 2nd and 3rd Quarter 2017 groundwater monitoring events, groundwater appears to be flowing radially from wells MW-6R and MW-7R due to the influence of groundwater extraction wells EW-20, EW-21, and EW-22. Groundwater elevations indicate that groundwater has mounded at the site due to injection of amended water through the vertical injection wells and horizontal injection piping.
 - In 2nd Quarter 2017, dissolved phase VOC concentrations in groundwater exceed their respective ESLs in wells MW-4R, MW-5R, MW-7R, MW-11R, and MW-14.
 - In 2nd Quarter 2017, wells MW-6R and MW-12 had decreasing or stable TPHg concentrations; MW-4R, MW-5R, MW-7R, MW-8, MW-11R and MW-14 had increasing TPHg concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for TPHg.
 - In 2nd Quarter 2017, monitoring wells MW-7R, and MW-12 have decreasing or stable benzene concentrations; MW-4R, MW-5R, MW-8, MW-11R and MW-14 have increased benzene concentrations; and MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for benzene.
- 3rd Quarter 2017 groundwater monitoring and sample collection was performed on September 13th, 14th, and 27th, 2017.
 - In 3rd Quarter 2017, dissolved phase VOC concentrations in groundwater exceed their respective ESLs in wells MW-5R, MW-7R, MW-11R, and MW-14.
 - In 3rd Quarter 2017, monitoring wells MW-4R and MW-7R had decreasing TPHg concentrations; MW-5R, MW-6R, MW-8, MW-11R, MW-12R and MW-14 had increasing TPHg concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for TPHg. Additionally, well MW-4R was non-detect during 3rd Quarter 2017.
 - In 3rd Quarter 2017, monitoring wells MW-4R, MW-7R, MW-11R, MW-12, MW-14 had decreasing benzene concentrations; MW-5R, MW-6R, MW-8 and MW-16 have

increased benzene concentrations; and MW-9, MW-10, MW-13 and MW-15 remained non-detect for benzene.

- There were increases in the TPHg and benzene concentrations detected in several groundwater samples. The total area of the plume has remained stable since the previous sampling event, which indicates that the groundwater plume is undergoing remediation. The area of the TPHg and benzene dissolved phase groundwater plume reduced in the north-south direction and in the east-west direction compared to the groundwater monitoring event performed before remediation system startup in June of 2014. Concentrations of TPHg and benzene in wells still remain relatively high indicating that operation of the remediation system should continue.
- Of the 13 wells sampled during 2nd and 3rd Quarter, 12 were above DO concentrations of 2 mg/L in the 2nd Quarter and all wells had DO concentrations greater than 2 mg/L in the 3rd Quarter. Aerobic biodegradation is most favorable when DO is above 2 mg/L (USEPA, 2016) and aerobic biodegradation is the main driver of the remediation process in the site groundwater plume. Based on these results, more aerobic conditions now appear to be occurring across the site, and more strongly in the center of the site than the previous quarter.

9. RECOMMENDATIONS

Based on the conclusions discussed above, Ninyo & Moore recommends continued implementation of the preferred remedial alternative (groundwater recirculation and enhanced bioremediation) presented in the *CAP*, dated August 1, 2013, with the exception that groundwater injection wells EW-14 and EW-15 should be converted to extraction and groundwater extraction well EW-20 should be converted to injection. This would reduce the size of the groundwater recirculation cells creating faster recirculation, increase the amount of groundwater recirculated through the remediation system by extracting from two wells (EW-14 and EW-15) rather than one (EW-20), and increase the mass of contaminants removed through the GAC vessels component of the remediation system.

Ninyo & Moore recommends continuing the ongoing O&M activities and groundwater monitoring as detailed in the *O&M Plan*, dated December 24, 2013, with the exception of increasing the amount of CBN added to the remediation system from 100 pounds per month to 400 pounds per month in order to provide more nutrients for aerobic degradation of contaminants. During future O&M events, Ninyo & Moore will continue evaluating the oxygen

injection rates and injection pressures of the remediation system with the goal of producing positive ORP values and higher concentrations of DO and nitrate in all wells.

10. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this assessment did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Ninyo & Moore's conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with

time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than those noted is undertaken at said parties' sole risk.

11. REFERENCES

- Ninyo & Moore, 2013a, Corrective Action Plan, Bill Chun Service Station, 2301 Santa Clara Avenue, Alameda, California, dated August 1.
- Ninyo & Moore, 2013b, Operations and Maintenance Plan, Bill Chun Service Station, 2301 Santa Clara Avenue, Alameda, California, dated December 24.
- Ninyo & Moore, 2015, Initial Groundwater Monitoring and System Evaluation Report, 2301 Santa Clara Avenue, Alameda, California, dated June 5.
- San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, Interim Final, Oakland, California, Revised February 2016.
- SWRCB, 2012, Low-Threat Underground Storage Tank Case Closure Policy, dated May 1.
- USEPA, 2016, How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites, EPA 510-B-17-003, dated November.

TABLE 1 – MONITORING WELL INVENTORY

Monitoring Well ID	Date Installed	Total Depth bgs	Riser Interval bgs	Screened Interval bgs ⁽¹⁾	Casing Diameter	Notes
MW-1	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep
MW-2	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep and an ORC sock was stuck in the well
MW-2R	5/2012	25.0	0-5	5-25	2"	Replaced MW-2
MW-3	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep
MW-4	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-4R	5/2012	25.0	0-5	5-25	2"	Replaced MW-4
MW-5	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-5R	5/2012	25.0	0-5	5-25	2"	Replaced MW-5
MW-6	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-6R	5/2012	25.0	0-5	5-25	2"	Replaced MW-6
MW-7	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the casing was damaged and an ORC sock was stuck in the well
MW-7R	5/2012	25.0	0-5	5-25	2"	Replaced MW-7
MW-8	11/1995	14.0	0-5	5-14	2"	Redeveloped in 5/2012
MW-9	11/1995	20.0	0-5	5-20	2"	Redeveloped in 5/2012
MW-10	11/1995	16.5	0-6.5	6.5-16.5	2"	Redeveloped in 5/2012
MW-11	11/1995	20.0	0-5	5-20	2"	Abandoned 5/2012 because the well casing was not schedule 40 PVC (too thin)
MW-11R	5/2012	25.0	0-5	5-25	2"	Replaced MW-11
BJ	5/2005	13.0	0-8	8-13	--	The well could not be located during the May 22, 2012 well survey, but was located during the July 21, 2017.
BK	5/2005	11.0	0-6	6-11	--	The well could not be located during the May 22, 2012 well survey, but was located during the July 21, 2017.
MW-12 (former BL)	5/2005	24.0	0-14	14-24	2"	Well ID was changed from BL to MW-12 to conform with site well identification scheme
MW-13 (former BG)	5/2005	20.0	0-15	15-20	2"	Well ID was changed from BG to MW-13 to conform with site well identification scheme
MW-14 (former BF)	5/2005	15.0	0-5	5-15	2"	Well ID was changed from BF to MW-14 to conform with site well identification scheme
MW-15 (former BH)	5/2005	30.0	0-20	20-30	2"	Well ID was changed from BH to MW-15 to conform with site well identification scheme
MW-16 (former BM)	5/2005	30.0	0-20	20-30	2"	Well ID was changed from BM to MW-16 to conform with site well identification scheme
EW-12	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	Abandoned 5/2012 because the riser was too deep
EW-13	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	Abandoned 5/2012 because the seal is cracked
EW-14	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	TOC was cut down to fit in well box, redeveloped in 5/2012; converted to injection well in 11/2014
EW-15	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-16	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-17	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-18	4/2014	15.0	0-5	5-15	4"	Converted to injection well in 11/2014

TABLE 1 – MONITORING WELL INVENTORY

Monitoring Well ID	Date Installed	Total Depth bgs	Riser Interval bgs	Screened Interval bgs ⁽¹⁾	Casing Diameter	Notes
EW-19	4/2014	15.0	0-5	5-15	4"	Converted to injection well in 11/2014
EW-20	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014
EW-21	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014
EW-22	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014

Notes:

DTW = depth to water measured from TOC on May 10, 2012.

bgs = feet below ground surface

TOC = top of casing

(1) Screened interval data for wells installed prior to May 2012 is based on historical documents in databases.

(2) Reported as 22 feet bgs on GeoTracker and 25 feet bgs in historical reports. Field measurements indicate the total well depths are approximately 25 feet from TOC.

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	Extraction Flow Rate	Extraction Total	Totalizer	Products Added		Comments
	(min)	(gpm)	(gal)	(gal)	CBN (pounds)	PS (gal)	
11/21/14 14:00	0	--	0	0	0	0	System startup and test for 3 hours/cycles to evaluate leaks, etc.. Shut down system at 5 pm. Will start up 24/7 tomorrow.
11/22/14 8:00	1,080	0.8	870	700	250	0	System startup. BT onsite. Product addition started.
11/23/14 8:50	1,490	1.7	2,480	2,900	250	0	Slight surfacing at IN-18, reduced flow and injection time to 1 min.
11/24/14 7:30	1,360	1.6	2,130	5,010	50	50	950 lbs. CBN left onsite, lots of PS remaining.
12/2/14 12:30	11,820	--	--	--	100	10	Connected 18 and 19 together. 19 was surfacing a little. Flow meter taken out for 18.
12/4/14 9:00	2,670	6.6	17,570	23,110	50	5	
12/10/14 10:50	8,750	1.0	8,370	31,410	50	5	
12/18/14 16:12	11,842	1.0	11,900	42,870	50	5	
1/2/15 11:12	21,300	1.2	24,970	65,390	50	5	
1/6/15 13:07	5,875	1.3	7,410	71,890	100	5	
1/16/15 9:50	14,203	1.2	17,460	87,090	50	5	
1/30/15 17:15	20,605	1.0	21,000	104,720	50	5	Mixing tank pH = 6.90.
2/6/15 15:00	9,945	1.1	10,630	113,350	50	5	Mixing tank pH = 7.30.
2/12/15 7:00	8,160	1.1	8,830	120,440	50	5	Mixing tank pH = 7.51 and holding tank pH = 7.67.
2/19/15 11:16	10,336	1.1	11,440	129,550	50	5	
2/27/15 9:55	11,439	1.1	12,590	139,800	50	5	Mixing tank pH = 7.07 and holding tank pH = 6.99.
3/5/15 15:35	8,980	1.1	9,990	147,850	50	5	Mixing tank pH = 7.10 and holding tank pH = 7.04.
3/13/15 12:00	11,305	1.1	12,580	157,900	50	5	Mixing tank pH = 7.05 and holding tank pH = 7.01.
3/25/15 12:43	17,323	1.1	18,280	172,300	50	5	Mixing tank pH = 7.30 and holding tank pH = 7.17. Dilute hydrogen peroxide injection was performed on March 18 through 21, 2015.
4/9/15 14:20	21,697	1.2	26,140	190,650	0	0	5 gallons of EZT-A2 TPH bacterial consortium added to remediation system. Mixing Tank pH = 7.83.
4/23/15 15:30	20,230	1.5	29,910	208,070	0	0	
5/8/15 9:30	21,240	1.4	29,460	228,260	50	0	
5/21/15 15:40	19,090	1.9	35,680	248,880	50	0	
6/4/15 9:05	19,765	1.8	36,260	270,030	50	0	Bag filters changed out on 5/28/15.
6/18/15 8:25	20,120	2.1	41,810	294,370	50	0	Bag filters changed out on 6/11/15.
7/1/15 16:15	19,190	2.7	52,130	320,500	50	0	Bag filters changed out on 6/25/15.
7/16/15 11:32	21,317	2.9	61,830	320,500	50	0	Bag filters changed out on 7/8/15.
7/29/15 8:24	18,532	2.9	54,610	375,000	50	0	Bag filters changed out on 7/30/15.
8/11/15 14:00	19,056	2.9	55,210	399,720	50	0	
8/27/15 16:00	23,160	3.0	69,430	429,540	50	0	Bag filters changed out on 8/27/15.
9/10/15 16:00	20,160	3.1	62,370	455,560	50	0	Bag filters changed out on 9/11/15.
9/24/15 15:30	20,130	3.4	68,180	482,680	50	0	
10/8/15 15:45	20,175	2.4	48,260	503,000	50	0	Bag filters changed out on 10/8/15.
10/22/15 15:30	20,145	1.1	22,010	525,970	50	0	
10/27/15 11:53	6,983	1.1	7,870	534,290	0	0	
10/29/15 9:37	2,744	0.7	1,850	536,070	50	5	Bag filters changed out and extraction pump and flow meter EW-20 cleaned of biofouling on 10/29/15.
10/30/15 11:53	1,576	1.8	2,840	538,360	0	0	
11/5/15 15:45	8,872	1.8	15,850	550,480	50	10	Bag filters changed out on 11/8/15.
11/19/15 8:52	19,747	1.7	34,380	576,920	50	5	Bag filters changed out on 11/24/15.
12/3/15 16:30	20,618	1.8	36,640	604,550	50	5	Bag filters changed out on 12/8/15. Dilute hydrogen peroxide injection was performed on 12/12/15.
12/17/15 14:20	20,030	1.7	33,510	630,030	50	5	Bag filters changed out on 12/21/15.
12/31/15 10:08	19,908	0.8	16,370	641,970	50	10	
1/13/16 15:30	19,042	1.9	36,560	667,700	50	5	Bag filters changed out on January 15 and 22, 2016. EW-20 extraction pump and flow meter cleaned of biofouling on 1/22/16.
1/28/16 9:00	21,210	2.0	43,240	695,990	100	5	Bag filters changed out on 2/10/16.
2/11/16 15:00	20,520	1.4	29,530	714,020	100	5	Bag filters changed out on 2/23/16.
2/25/16 8:30	19,770	1.9	36,950	732,050	100	5	Bag filters changed out on 3/7/16.
3/10/16 9:00	20,190	0.6	12,320	745,710	100	5	
3/24/16 15:00	20,520	2.3	47,980	773,600	50	5	
4/7/16 15:15	20,175	2.5	50,030	801,400	50	5	Bag filters changed out on 4/13/16.
4/22/16 7:10	21,115	0.4	8,500	808,440	50	5	

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

5/5/16 7:20	18,730	2.4	45,140	834,010	50	5	
5/17/16 14:00	17,680	2.4	41,970	856,370	0	0	Bag filters changed out on 5/18/16.
6/3/16 11:40	24,340	1.4	33,650	877,140	50	5	Bag filters changed out on 6/9/16.
6/20/16 16:30	24,770	1.8	43,870	910,240	50	5	
7/1/16 7:20	15,290	2.8	43,170	930,130	50	5	Bag filters changed out on 7/1/16.
7/15/16 16:00	20,680	2.4	50,370	950,420	50	5	Bag filters changed out on 7/20/16.
7/28/16 8:00	18,240	1.6	29,210	974,000	50	5	
8/16/16 15:00	27,780	1.9	52,910	1,006,650	50	0	Bag filters changed out on 8/13/16.
8/31/16 16:00	21,660	1.8	39,890	1,032,370	50	0	Bag Filters changed out on 8/23/17. EW-20 totalizer was noted as broken on 8/31/16, but groundwater extraction from EW-20 continues.
9/13/16 6:50	18,170	1.2	21,480	1,053,600	50	0	Bag filters changed out on 9/15/16. EW-20 totalizer replaced on 9/15/16.
9/30/16 13:28	24,878	1.4	35,039	1,076,540	50	0	Bag filters changed out on September 27, 2016.
10/14/16 8:01	19,833	1.5	29,510	1,095,700	50	0	Bag filters changed out on October 12, 2016.
10/26/16 13:00	17,579	1.7	30,040	1,114,230	50	0	Bag filters changed out on October 27, 2016.
11/17/16 12:50	31,670	1.7	53,520	1,152,470	50	0	Bag filters changed out on November 13, 2016.
12/1/16 8:04	19,874	--	--	1,175,160	50	0	Bag filters changed out on November 23, 2016. Extraction well data was not collected; however, the extraction wells were operating normally.
12/19/16 16:32	26,428	2.3	60,210	1,201,470	50	0	Bag filters changed out on 12/14/16.
1/4/17 8:00	22,528	1.3	28,390	1,225,500	50	0	Bag filters changed out on 1/2/17.
1/17/17 10:52	18,892	1.7	31,410	1,247,910	50	0	Bag filters changed out on 1/25/17.
2/1/17 13:08	21,736	0.9	19,710	1,274,810	50	0	Bag filters changed out on 2/6/17.
2/13/17 8:59	17,031	0.8	13,190	1,296,510	50	0	Bag filters changed out on 2/13/17; granular activated carbon changed out on 2/16/17. Cleaned y strainer; EW-21 turns on briefly and EW-22 does not turn on, reset system.
3/3/17 12:59	26,160	1.1	27,780	1,326,000	50	0	Bag filters changed out on 3/1/17; disassemble and clean extraction pumps on 3/1/17. Cleaned y strainer.
3/15/17 8:24	17,005	0.9	14,810	1,338,380	50	0	Bag filters changed out on 3/12/17. Cleaned y strainer.
3/28/17 11:00	18,876	0.5	8,750	1,345,790	50	0	Bag filters changed out on 3/20/17; changed out filters in DO-IT dissolved oxygen pump on 3/20/17. Cleaned y strainer.
4/11/17 17:11	20,531	1.0	21,390	1,364,110	50	0	Bag filters changed out on 4/3/2017. Low-pressure alarm was tripped on the remediation system on 4/11/2017. Reset alarm and system resumed normal operation.
4/14/17 12:30	4,039	0.9	3,590	--	0	0	Bag filters changed out on 4/12/2017. Low-pressure alarm was tripped on the remediation system on 4/14/2017. Reset alarm and system resumed normal operation.
4/19/17 15:20	7,370	0.0	80	1,367,190	0	0	Low-pressure alarm was tripped on the remediation system on 4/19/17. Reset alarm and system resumed normal operation.
4/21/17 12:15	2,695	0.5	1,400	1,369,430	0	0	
4/28/17 12:15	10,080	0.8	7,810	1,375,110	50	0	Injection flow was observed in stations IN-2/3 and IN-1 and EW-17 at the same time because the injection station solenoids had jammed. Cleaned solenoids and system resumed normal operation.
5/3/17 6:45	6,870	0.2	1,250	--	0	0	
5/10/17 9:00	10,215	0.4	4,260	1,379,820	50	0	Bag filters changed out on May 11, 2017. Solenoid in the remediation system's oxygen pump was replaced.
5/23/17 16:00	19,140	1.1	21,210	1,398,610	50	0	Bag Filters changed out on May 22, 2017.
6/8/17 13:15	22,875	1.0	22,980	1,418,080	50	0	Bag filters changed out on June 8, 2017.
6/21/17 8:15	18,420	1.4	25,230	1,440,300	50	0	Bag filters changed out on June 21, 2017.
7/5/17 11:15	20,340	1.5	29,570	1,466,330	50	0	
7/19/17 11:15	20,160	1.5	29,570	1,492,020	50	0	Bag filters changed out on 7/11/2017.
8/2/17 9:00	20,025	1.4	28,790	1,518,290	50	0	
8/16/17 6:00	19,980	1.4	28,840	1,537,480	50	0	Bag filters changed out on 8/9/2017.
8/30/17 9:15	20,355	1.5	31,490	1,568,170	50	0	Bag filters changed out on 8/22/2017
9/13/17 13:30	20,415	1.5	31,350	1,593,810	50	0	Bag filters changed out on 9/7/2017.
9/27/17 10:45	19,995	1.4	28,680	1,617,680	50	0	Bag filters changed out on 9/26/2017.
Totals	1,498,845		2,377,719		4,700	240	

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

4/22/16 7:10	21,115	--	--	--	--	--	--	34,290	60	0.00	81,740	150	0.01	236,760	2,080	0.10	236,570	2,970	0.14	192,410	2,170	0.10
5/5/16 7:20	18,730	--	--	--	--	--	--	34,910	620	0.03	83,070	1,330	0.07	244,410	7,650	0.41	243,660	7,090	0.38	200,120	7,710	0.41
5/17/16 14:00	17,680	--	--	--	--	--	--	35,440	530	0.03	84,230	1,160	0.07	251,110	6,700	0.38	250,280	6,620	0.37	206,800	6,680	0.38
6/3/16 11:40	24,340	--	--	--	--	--	--	35,940	500	0.02	85,360	1,130	0.05	257,270	6,160	0.25	256,440	6,160	0.25	213,120	6,320	0.26
6/20/16 16:30	24,770	--	--	--	--	--	--	36,320	380	0.02	86,490	1,130	0.05	266,180	8,910	0.36	267,090	10,650	0.43	223,900	10,780	0.44
7/1/16 7:20	15,290	--	--	--	--	--	--	36,500	180	0.01	87,100	610	0.04	271,310	5,130	0.34	273,720	6,630	0.43	230,400	6,500	0.43
7/15/16 16:00	20,680	--	--	--	--	--	--	36,790	290	0.01	88,060	960	0.05	278,520	7,210	0.35	282,500	8,780	0.42	238,910	8,510	0.41
7/28/16 8:00	18,240	--	--	--	--	--	--	36,970	180	0.01	88,680	620	0.03	283,190	4,670	0.26	288,220	5,720	0.31	244,430	5,520	0.30
8/16/16 15:00	27,780	--	--	--	--	--	--	37,420	450	0.02	90,270	1,590	0.06	294,190	11,000	0.40	299,320	11,100	0.40	251,880	7,450	0.27
8/31/16 16:00	21,660	--	--	--	--	--	--	37,820	400	0.02	91,590	1,320	0.06	302,640	8,450	0.39	307,260	7,940	0.37	257,330	5,450	0.25
9/13/16 6:50	18,170	--	--	--	--	--	--	38,100	280	0.02	92,520	930	0.05	309,410	6,770	0.37	313,790	6,530	0.36	262,040	4,710	0.26
9/30/16 13:28	24,878	--	--	--	--	--	--	38,410	310	0.01	93,620	1,100	0.04	317,700	8,290	0.33	322,310	8,520	0.34	268,080	6,040	0.24
10/14/16 8:01	19,833	--	--	--	--	--	--	38,650	240	0.01	94,390	770	0.04	324,050	6,350	0.32	328,750	6,440	0.32	272,740	4,660	0.23
10/26/16 13:00	17,579	--	--	--	--	--	--	39,000	350	0.02	95,240	850	0.05	330,000	5,950	0.34	334,990	6,240	0.35	277,170	4,430	0.25
11/17/16 12:50	31,670	--	--	--	--	--	--	39,820	820	0.03	96,920	1,680	0.05	342,110	12,110	0.38	348,170	13,180	0.42	286,140	8,970	0.28
12/1/16 8:04	19,874	--	--	--	--	--	--	40,280	460	0.02	97,860	940	0.05	349,410	7,300	0.37	355,500	7,330	0.37	291,270	5,130	0.26
12/19/16 16:32	26,428	--	--	--	--	--	--	40,850	570	0.02	99,060	1,200	0.05	357,490	8,080	0.31	363,760	8,260	0.31	297,380	6,110	0.23
1/4/17 8:00	22,528	--	--	--	--	--	--	41,310	460	0.02	100,070	1,010	0.04	364,270	6,780	0.30	371,900	8,140	0.36	302,520	5,140	0.23
1/17/17 10:52	18,892	--	--	--	--	--	--	41,750	440	0.02	101,030	960	0.05	371,080	6,810	0.36	380,320	8,420	0.45	306,900	4,380	0.23
2/1/17 13:08	21,736	--	--	--	--	--	--	42,310	560	0.03	102,190	1,160	0.05	378,778	7,698	0.35	390,300	9,980	0.46	312,050	5,150	0.24
2/13/17 8:59	17,031	--	--	--	--	--	--	42,720	410	0.02	103,000	810	0.05	385,270	6,492	0.38	398,340	8,040	0.47	316,160	4,110	0.24
3/3/17 12:59	26,160	--	--	--	--	--	--	43,400	680	0.03	104,320	1,320	0.05	393,660	8,390	0.32	409,250	10,910	0.42	321,780	5,620	0.21
3/15/17 8:24	17,005	--	--	--	--	--	--	43,650	250	0.01	104,830	510	0.03	397,100	3,440	0.20	413,680	4,430	0.26	324,040	2,260	0.13
3/28/17 11:00	18,876	--	--	--	--	--	--	43,800	150	0.01	105,130	300	0.02	399,250	2,150	0.11	416,230	2,550	0.14	325,280	1,240	0.07
4/11/17 17:11	20,531	--	--	--	--	--	--	44,350	550	0.03	105,920	790	0.04	404,330	5,080	0.25	422,770	6,540	0.32	328,790	3,510	0.17
4/14/17 12:30	4,039	--	--	--	--	--	--	44,480	130	0.03	106,050	130	0.03	405,220	890	0.22	423,810	1,040	0.26	329,180	390	0.10
4/19/17 15:20	7,370	--	--	--	--	--	--	44,480	0	0.00	106,050	0	0.00	405,230	10	0.00	423,820	10	0.00	329,180	0	0.00
4/21/17 12:15	2,695	--	--	--	--	--	--	44,540	60	0.02	106,110	60	0.02	405,620	390	0.14	424,190	370	0.14	329,410	230	0.09
4/28/17 12:15	10,080	--	--	--	--	--	--	44,830	290	0.03	106,410	300	0.03	407,610	1,990	0.20	426,210	2,020	0.20	330,630	1,220	0.12
5/3/17 6:45	6,870	--	--	--	--	--	--	44,880	50	0.01	106,450	40	0.01	407,950	340	0.05	426,520	310	0.05	330,830	200	0.03
5/10/17 9:00	10,215	--	--	--	--	--	--	45,030	150	0.01	106,610	160	0.02	409,100	1,150	0.11	427,570	1,050	0.10	331,460	630	0.06
5/23/17 16:00	19,140	--	--	--	--	--	--	45,770	740	0.04	107,360	750	0.04	415,180	6,080	0.32	432,770	5,200	0.27	334,850	3,390	0.18
6/8/17 13:15	22,875	--	--	--	--	--	--	46,650	880	0.04	108,220	860	0.04	421,590	6,410	0.28	438,410	5,640	0.25	338,430	3,580	0.16
6/21/17 8:15	18,420	--	--	--	--	--	--	47,660	1,010	0.05	109,190	970	0.05	428,650	7,060	0.38	445,000	6,590	0.36	341,800	3,370	0.18
7/5/17 11:15	20,340	--	--	--	--	--	--	48,820	1,160	0.06	110,330	1,140	0.06	437,180	8,530	0.42	452,920	7,920	0.39	345,730	3,930	0.19
7/19/17 11:15	20,160	--	--	--	--	--	--	49,960	1,140	0.06	111,440	1,110	0.06	444,820	7,640	0.38	461,000	8,080	0.40	349,680	3,950	0.20
8/2/17 9:00	20,025	--	--	--	--	--	--	50,790	830	0.04	112,690	1,250	0.06	453,430	8,610	0.43	469,190	8,190	0.41	353,640	3,960	0.20
8/16/17 6:00	19,980	--	--	--	--	--	--	51,430	640	0.03	114,140	1,450	0.07	461,720	8,290	0.41	480,000	10,810	0.54	358,500	4,860	0.24
8/30/17 9:15	20,355	--	--	--	--	--	--	52,010	580	0.03	115,750	1,610	0.08	467,390	5,670	0.28	485,790	5,790	0.28	361,960	3,460	0.17
9/13/17 13:30	20,415	--	--	--	--	--	--	52,650	640	0.03	117,400	1,650	0.08	474,760	7,370	0.36	493,750	7,960	0.39	366,200	4,240	0.21
9/27/17 10:45	19,995	--	--	--	--	--	--	53,220	570	0.03	118,890	1,490	0.07	481,340	6,580	0.33	501,310	7,560	0.38	370,130	3,930	0.20

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time (min)	EXTRACTION WELLS								
		EW-20			EW-22			EW-21		
		Reading (gal)	Volume (gal)	Rate (gpm)	Reading (gal)	Volume (gal)	Rate (gpm)	Reading (gal)	Volume (gal)	Rate (gpm)
11/21/14 14:00	0	0	--	--	0	--	--	0	--	--
11/22/14 8:00	1,080	420	420	0.39	250	250	0.23	200	200	0.19
11/23/14 8:50	1,490	1,750	1,330	0.89	930	680	0.46	670	470	0.32
11/24/14 7:30	1,360	2,750	1,000	0.74	1,450	520	0.38	1,280	610	0.45
12/2/14 12:30	11,820	--	--	--	--	--	--	--	--	--
12/4/14 9:00	2,670	13,130	10,380	3.89	2,210	760	0.28	7,710	6,430	2.41
12/10/14 10:50	8,750	16,720	3,590	0.41	4,320	2,110	0.24	10,380	2,670	0.31
12/18/14 16:12	11,842	21,310	4,590	0.39	7,540	3,220	0.27	14,470	4,090	0.35
1/2/15 11:12	21,300	32,170	10,860	0.51	13,900	6,360	0.30	22,220	7,750	0.36
1/6/15 13:07	5,875	35,590	3,420	0.58	15,660	1,760	0.30	24,450	2,230	0.38
1/16/15 9:50	14,203	43,480	7,890	0.56	20,010	4,350	0.31	29,670	5,220	0.37
1/30/15 17:15	20,605	53,090	9,610	0.47	24,740	4,730	0.23	36,330	6,660	0.32
2/6/15 15:00	9,945	58,110	5,020	0.50	27,160	2,420	0.24	39,520	3,190	0.32
2/12/15 7:00	8,160	62,180	4,070	0.50	29,170	2,010	0.25	42,270	2,750	0.34
2/19/15 11:16	10,336	67,480	5,300	0.51	31,830	2,660	0.26	45,750	3,480	0.34
2/27/15 9:55	11,439	73,460	5,980	0.52	34,990	3,160	0.28	49,200	3,450	0.30
3/5/15 15:35	8,980	78,160	4,700	0.52	37,610	2,620	0.29	51,870	2,670	0.30
3/13/15 12:00	11,305	84,030	5,870	0.52	40,990	3,380	0.30	55,200	3,330	0.29
3/25/15 12:43	17,323	92,520	8,490	0.49	45,660	4,670	0.27	60,320	5,120	0.30
4/9/15 14:20	21,697	105,020	12,500	0.58	51,780	6,120	0.28	67,840	7,520	0.35
4/23/15 15:30	20,230	118,220	13,200	0.65	58,050	6,270	0.31	78,280	10,440	0.52
5/8/15 9:30	21,240	134,470	16,250	0.77	65,210	7,160	0.34	84,330	6,050	0.28
5/21/15 15:40	19,090	153,100	18,630	0.98	72,510	7,300	0.38	94,080	9,750	0.51
6/4/15 9:05	19,765	171,210	18,110	0.92	79,820	7,310	0.37	104,920	10,840	0.55
6/18/15 8:25	20,120	192,250	21,040	1.05	88,080	8,260	0.41	117,430	12,510	0.62
7/1/15 16:15	19,190	222,140	29,890	1.56	97,150	9,070	0.47	130,600	13,170	0.69
7/16/15 11:32	21,317	259,080	36,940	1.73	107,650	10,500	0.49	144,990	14,390	0.68
7/29/15 8:24	18,532	291,890	32,810	1.77	116,490	8,840	0.48	157,950	12,960	0.70
8/11/15 14:00	19,056	325,290	33,400	1.75	125,280	8,790	0.46	170,970	13,020	0.68
8/27/15 16:00	23,160	368,880	43,590	1.88	135,900	10,620	0.46	186,190	15,220	0.66
9/10/15 16:00	20,160	408,090	39,210	1.94	145,590	9,690	0.48	199,660	13,470	0.67
9/24/15 15:30	20,130	451,090	43,000	2.14	156,180	10,590	0.53	214,250	14,590	0.72
10/8/15 15:45	20,175	480,760	29,670	1.47	163,900	7,720	0.38	225,120	10,870	0.54
10/22/15 15:30	20,145	480,760	0	0.00	173,450	9,550	0.47	237,580	12,460	0.62
10/27/15 11:53	6,983	480,760	0	0.00	176,910	3,460	0.50	241,990	4,410	0.63
10/29/15 9:37	2,744	480,770	10	0.00	177,720	810	0.30	243,020	1,030	0.38
10/30/15 11:53	1,576	481,800	1,030	0.65	178,530	810	0.51	244,020	1,000	0.63
11/5/15 15:45	8,872	487,470	5,670	0.64	183,120	4,590	0.52	249,610	5,590	0.63
11/19/15 8:52	19,747	499,880	12,410	0.63	193,220	10,100	0.51	261,480	11,870	0.60
12/3/15 16:30	20,618	514,040	14,160	0.69	203,800	10,580	0.51	273,380	11,900	0.58
12/17/15 14:20	20,030	528,270	14,230	0.71	212,080	8,280	0.41	284,380	11,000	0.55
12/31/15 10:08	19,908	534,710	6,440	0.32	216,450	4,370	0.22	289,940	5,560	0.28
1/13/16 15:30	19,042	549,690	14,980	0.79	225,910	9,460	0.50	302,060	12,120	0.64
1/28/16 9:00	21,210	566,690	17,000	0.80	237,340	11,430	0.54	316,870	14,810	0.70
2/11/16 15:00	20,520	578,140	11,450	0.56	245,110	7,770	0.38	327,180	10,310	0.50
2/25/16 8:30	19,770	593,780	15,640	0.79	254,080	8,970	0.45	339,520	12,340	0.62
3/10/16 9:00	20,190	599,210	5,430	0.27	257,020	2,940	0.15	343,470	3,950	0.20
3/24/16 15:00	20,520	618,100	18,890	0.92	268,550	11,530	0.56	361,030	17,560	0.86
4/7/16 15:15	20,175	640,060	21,960	1.09	279,340	10,790	0.53	378,310	17,280	0.86
4/22/16 7:10	21,115	640,610	550	0.03	282,560	3,220	0.15	383,040	4,730	0.22
5/5/16 7:20	18,730	659,590	18,980	1.01	292,920	10,360	0.55	398,840	15,800	0.84

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

5/17/16 14:00	17,680	679,110	19,520	1.10	301,620	8,700	0.49	412,590	13,750	0.78
6/3/16 11:40	24,340	692,910	13,800	0.57	308,860	7,240	0.30	425,200	12,610	0.52
6/20/16 16:30	24,770	714,950	22,040	0.89	311,160	2,300	0.09	444,730	19,530	0.79
7/1/16 7:20	15,290	728,630	13,680	0.89	328,630	17,470	1.14	456,750	12,020	0.79
7/15/16 16:00	20,680	750,900	22,270	1.08	339,230	10,600	0.51	474,250	17,500	0.85
7/28/16 8:00	18,240	761,680	10,780	0.59	345,880	6,650	0.36	486,030	11,780	0.65
8/16/16 15:00	27,780	779,860	18,180	0.65	358,280	12,400	0.45	508,360	22,330	0.80
8/31/16 16:00	21,660	793,220	13,360	0.62	367,610	9,330	0.43	525,560	17,200	0.79
9/13/16 6:50	18,170	793,220	0.00	0.00	375,080	7,470	0.41	539,570	14,010	0.77
9/15/16 7:00	2,890	495,871	--	--	--	--	--	--	--	--
9/30/16 13:28	21,988	504,900	9,029	0.41	384,380	9,300	0.42	556,280	16,710	0.76
10/14/16 8:01	19,833	513,330	8,430	0.43	392,460	8,080	0.41	569,280	13,000	0.66
10/26/16 13:00	17,579	521,740	8,410	0.48	400,440	7,980	0.45	582,930	13,650	0.78
11/17/16 12:50	31,670	539,060	17,320	0.55	413,420	12,980	0.41	606,150	23,220	0.73
12/1/16 8:04	19,874	--	--	--	--	--	--	--	--	--
12/19/16 16:32	26,428	564,680	25,620	0.97	434,300	20,880	0.79	619,860	13,710	0.52
1/4/17 8:00	22,528	578,200	13,520	0.60	449,170	14,870	0.66	619,860	0	0.00
1/17/17 10:52	18,892	591,040	12,840	0.68	467,740	18,570	0.98	619,860	0	0.00
2/1/17 13:08	21,736	605,510	14,470	0.67	471,520	3,780	0.17	621,320	1,460	0.07
2/13/17 8:59	17,031	616,680	11,170	0.66	471,520	0	0.00	623,340	2,020	0.12
3/3/17 12:59	26,160	628,820	12,140	0.46	472,350	830	0.03	638,150	14,810	0.57
3/15/17 8:24	17,005	633,190	4,370	0.26	477,220	4,870	0.29	643,720	5,570	0.33
3/28/17 11:00	18,876	635,690	2,500	0.13	480,340	3,120	0.17	646,850	3,130	0.17
4/11/17 17:11	20,531	641,900	6,210	0.30	488,160	7,820	0.38	654,210	7,360	0.36
4/14/17 12:30	4,039	642,910	1,010	0.25	489,490	1,330	0.33	655,460	1,250	0.31
4/19/17 15:20	7,370	642,930	20	0.00	489,520	30	0.00	655,490	30	0.00
4/21/17 12:15	2,695	643,300	370	0.14	490,060	540	0.20	655,980	490	0.18
4/28/17 12:15	10,080	645,430	2,130	0.21	493,020	2,960	0.29	658,700	2,720	0.27
5/3/17 6:45	6,870	645,770	340	0.05	493,490	470	0.07	659,140	440	0.06
5/10/17 9:00	10,215	646,980	1,210	0.12	495,070	1,580	0.15	660,610	1,470	0.14
5/23/17 16:00	19,140	653,040	6,060	0.32	502,670	7,600	0.40	668,160	7,550	0.39
6/8/17 13:15	22,875	660,060	7,020	0.31	510,700	8,030	0.35	676,090	7,930	0.35
6/21/17 8:15	18,420	668,480	8,420	0.46	519,190	8,490	0.46	684,410	8,320	0.45
7/5/17 11:15	20,340	679,130	10,650	0.52	528,750	9,560	0.47	693,770	9,360	0.46
7/19/17 11:15	20,160	690,030	10,900	0.54	538,140	9,390	0.47	703,050	9,280	0.46
8/2/17 9:00	20,025	700,550	10,520	0.53	547,460	9,320	0.47	712,000	8,950	0.45
8/16/17 6:00	19,980	711,150	10,600	0.53	556,600	9,140	0.46	721,100	9,100	0.46
8/30/17 9:15	20,355	721,950	10,800	0.53	567,230	10,630	0.52	731,160	10,060	0.49
9/13/17 13:30	20,415	732,720	10,770	0.53	577,390	10,160	0.50	741,580	10,420	0.51
9/27/17 10:45	19,995	742,580	9,860	0.49	586,630	9,240	0.46	751,160	9,580	0.48
Notes: Remediation system startup: NOV 21, 2014. Product addition began: NOV 22, 2014 min = minutes gpm = gallons per minute gal = gallons CBN = Nutrients Added A2 = bacterial consortium added PS = Surfactant Added										

TABLE 3 -
GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-2R	05/10/12	28.56	25.18	7.81	7.81	0.00	20.75	NA	NA	2" Diameter well
MW-2R	11/14/12	28.56	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
MW-2R	04/17/13	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	06/25/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/04/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/31/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	01/22/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/19/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	6/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	08/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	11/10/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/02/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	05/16/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	08/16/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-4R	05/10/12	28.45	25.13	7.86	7.86	0.00	20.59	NA	NA	2" Diameter well
MW-4R	11/14/12	28.45	25.12	8.58	8.58	0.00	19.87	Decrease	-0.72	
MW-4R	04/17/13	28.45	25.10	8.13	8.13	0.00	20.32	Rise	0.45	
MW-4R	06/25/14	28.45	24.87	8.84	8.84	0.00	19.61	Decrease	-0.71	
MW-4R	12/04/14	28.45	24.90	9.00	9.00	0.00	19.45	Decrease	-0.16	slight hydrocarbon odor
MW-4R	12/31/14	28.45	24.90	7.45	7.45	0.00	21.00	Rise	1.55	
MW-4R	01/22/15	28.45	24.90	8.25	8.25	0.00	20.20	Decrease	-0.80	
MW-4R	02/19/15	28.45	24.90	8.15	8.15	0.00	20.30	Rise	0.10	
MW-4R	06/11/15	28.45	29.18	9.08	9.08	0.00	19.37	Decrease	-0.93	
MW-4R	08/11/15	28.45	25.19	9.98	9.98	0.00	18.47	Decrease	-0.90	
MW-4R	11/10/15	28.45	25.17	10.24	10.24	0.00	18.21	Decrease	-0.26	
MW-4R	02/02/16	28.45	24.89	8.65	8.65	0.00	19.80	Rise	1.59	
MW-4R	05/16/16	28.45	25.19	9.05	9.05	0.00	19.40	Decrease	-0.40	
MW-4R	08/16/16	28.45	24.88	9.78	9.78	0.00	18.67	Decrease	-0.73	
MW-4R	12/01/16	28.45	25.19	9.42	9.42	0.00	19.03	Decrease	-0.37	Brownish water, has hydrocarbon odor
MW-4R	03/03/17	28.45	25.20	6.82	6.82	0.00	21.63	Rise	2.23	Black sediment in initial uptake; clear
MW-4R	05/18/17	28.45	25.23	8.73	8.73	0.00	19.72	Decrease	-1.91	Black sediment in initial uptake; brownish
MW-4R	09/14/17	28.45	25.21	9.71	9.71	0.00	18.74	Decrease	-0.98	Yellow
MW-5R	05/10/12	28.25	23.79	7.46	7.46	0.00	20.79	NA	NA	2" Diameter well
MW-5R	11/14/12	28.25	23.78	8.41	8.41	0.00	19.84	Decrease	-0.95	
MW-5R	04/17/13	28.25	23.70	7.65	7.65	0.00	20.60	Rise	0.76	
MW-5R	06/25/14	28.25	23.50	8.57	8.57	0.00	19.68	Decrease	-0.92	
MW-5R	12/04/14	28.25	23.50	7.40	7.40	0.00	20.85	Rise	1.17	
MW-5R	12/31/14	28.25	23.50	6.20	6.20	0.00	22.05	Rise	1.20	
MW-5R	01/22/15	28.25	23.50	7.05	7.05	0.00	21.20	Decrease	-0.85	
MW-5R	02/19/15	28.25	23.50	7.10	7.10	0.00	21.15	Decrease	-0.05	
MW-5R	06/11/15	28.25	23.79	7.84	7.84	0.00	20.42	Decrease	-0.73	Brown water, has distinct hydrocarbon odor
MW-5R	08/11/15	28.25	24.79	8.11	8.11	0.00	20.14	Decrease	-0.27	
MW-5R	11/10/15	28.25	23.78	8.58	8.58	0.00	19.67	Decrease	-0.47	
MW-5R	02/02/16	28.25	23.50	6.62	6.62	0.00	21.63	Rise	1.96	
MW-5R	05/16/16	28.25	23.81	7.19	7.19	0.00	21.06	Decrease	-0.57	
MW-5R	08/16/16	28.25	23.49	8.28	8.28	0.00	19.97	Decrease	-1.09	Black sticky material in purge water
MW-5R	12/01/16	28.25	23.81	7.40	7.40	0.00	20.85	Decrease	-0.21	Hydrocarbon and sewage odor
MW-5R	03/03/17	28.25	23.81	6.00	6.00	0.00	22.25	Rise	1.19	Hydrocarbon odor, algae-like material
MW-5R	05/18/17	28.25	23.80	7.80	7.80	0.00	20.45	Decrease	-1.80	Hydrocarbon odor
MW-5R	09/14/17	28.25	23.84	8.05	8.05	0.00	20.20	Decrease	-0.25	Hydrocarbon odor

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-6R	05/10/12	28.07	25.22	7.21	7.21	0.00	20.86	NA	NA	2" Diameter well
MW-6R	11/14/12	28.07	25.20	8.31	8.31	0.00	19.76	Decrease	-1.10	
MW-6R	04/17/13	28.07	24.90	7.60	7.60	0.00	20.47	Rise	0.71	
MW-6R	06/25/14	28.07	24.87	8.49	8.49	0.00	19.58	Decrease	-0.89	
MW-6R	12/04/14	28.07	24.90	7.40	7.40	0.00	20.67	Rise	1.09	
MW-6R	12/31/14	28.07	24.90	6.00	6.00	0.00	22.07	Rise	1.40	
MW-6R	01/22/15	28.07	24.90	7.00	7.00	0.00	21.07	Decrease	-1.00	
MW-6R	02/19/15	28.07	24.90	7.05	7.05	0.00	21.02	Decrease	-0.05	
MW-6R	06/11/15	28.07	25.18	7.78	7.78	0.00	20.29	Decrease	-0.73	
MW-6R	08/11/15	28.07	25.18	8.20	8.20	0.00	19.87	Decrease	-0.42	
MW-6R	11/10/15	28.07	25.13	8.74	8.74	0.00	19.33	Decrease	-0.54	
MW-6R	02/02/16	28.07	24.94	6.05	6.05	0.00	22.02	Rise	2.69	
MW-6R	05/16/16	28.07	25.23	6.93	6.93	0.00	21.14	Decrease	-0.88	
MW-6R	08/16/16	28.07	24.89	8.13	8.13	0.00	19.94	Decrease	-1.20	
MW-6R	12/01/16	28.07	25.24	7.40	7.40	0.00	20.67	Decrease	-0.47	
MW-6R	03/02/17	28.07	25.25	4.93	4.93	0.00	23.14	Rise	2.00	Cloudy
MW-6R	05/17/17	28.07	25.24	6.95	6.95	0.00	21.12	Decrease	-2.02	
MW-6R	9/13/2017	28.07	25.23	7.77	7.77	0.00	20.30	Decrease	-0.82	
MW-7R	05/10/12	28.41	25.33	7.63	7.63	0.00	20.78	NA	NA	2" Diameter well
MW-7R	11/14/12	28.41	25.30	8.68	8.68	0.00	19.73	Decrease	-2.48	
MW-7R	04/17/13	28.41	24.95	7.85	7.85	0.00	20.56	Rise	0.83	
MW-7R	06/25/14	28.41	24.97	8.79	8.79	0.00	19.62	Decrease	-0.94	
MW-7R	12/04/14	28.41	24.95	7.65	7.65	0.00	20.76	Rise	1.14	
MW-7R	12/31/14	28.41	24.95	6.15	6.15	0.00	22.26	Rise	1.50	
MW-7R	01/22/15	28.41	24.95	7.05	7.05	0.00	21.36	Decrease	-0.90	
MW-7R	02/19/15	28.41	24.95	7.10	7.10	0.00	21.31	Decrease	-0.05	
MW-7R	06/11/15	28.41	25.28	7.84	7.84	0.00	20.57	Decrease	-0.74	
MW-7R	08/11/15	28.41	25.29	8.25	8.25	0.00	20.16	Decrease	-0.41	
MW-7R	11/10/15	28.41	25.22	9.77	9.77	0.00	18.64	Decrease	-1.52	
MW-7R	02/02/16	28.41	24.96	6.27	6.27	0.00	22.14	Rise	3.50	
MW-7R	05/16/16	28.41	25.23	7.04	7.04	0.00	21.37	Decrease	-0.77	
MW-7R	08/16/16	28.41	24.92	8.27	8.27	0.00	20.14	Decrease	-1.23	
MW-7R	12/01/16	28.41	25.26	7.80	7.80	0.00	20.61	Decrease	-0.76	Black sediment in purge water; hydrocarbon odor
MW-7R	03/03/17	28.41	25.29	5.88	5.88	0.00	22.53	Rise	1.16	Cloudy, hydrocarbon odor, algae-like material
MW-7R	05/18/17	28.41	25.24	7.14	7.14	0.00	21.27	Decrease	-1.26	Particulates, hydrocarbon odor
MW-7R	09/14/17	28.41	25.33	8.11	8.11	0.00	20.30	Decrease	-0.97	Black sediment in purge water; hydrocarbon odor
MW-8	05/10/12	28.01	14.16	7.74	7.74	0.00	20.27	NA	NA	2" Diameter well
MW-8	11/14/12	28.01	14.15	8.09	8.09	0.00	19.92	Decrease	-0.35	
MW-8	04/17/13	28.01	14.00	7.68	7.68	0.00	20.33	Rise	0.41	
MW-8	06/25/14	28.01	13.84	8.25	8.25	0.00	19.76	Decrease	-0.57	
MW-8	12/05/14	28.01	13.85	7.45	7.45	0.00	20.56	Rise	0.80	
MW-8	12/31/14	28.01	14.00	7.55	7.55	0.00	20.46	Decrease	-0.10	
MW-8	01/22/15	28.01	14.00	7.90	7.90	0.00	20.11	Decrease	-0.35	
MW-8	02/19/15	28.01	14.00	7.85	7.85	0.00	20.16	Rise	0.05	
MW-8	06/11/15	28.01	14.26	8.34	8.34	0.00	19.67	Decrease	-0.49	
MW-8	08/11/15	28.01	14.24	8.69	8.69	0.00	19.32	Decrease	-0.35	
MW-8	11/10/15	28.01	14.19	9.02	9.02	0.00	18.99	Decrease	-0.33	
MW-8	02/02/16	28.01	13.89	7.78	7.78	0.00	20.23	Rise	1.24	
MW-8	05/16/16	28.01	14.14	8.11	8.11	0.00	19.90	Decrease	-0.33	
MW-8	08/16/16	28.01	13.84	8.56	8.56	0.00	19.45	Decrease	-0.45	Turbidity reading flashed 1,000; grey, cloudy groundwater
MW-8	12/01/16	28.01	14.10	8.22	8.22	0.00	19.79	Decrease	-0.11	Grayish, hydrocarbon odor
MW-8	03/03/17	28.01	14.90	7.40	7.40	0.00	20.61	Rise	0.71	Cloudy; yellowish-brown
MW-8	05/18/17	28.01	14.08	7.95	7.95	0.00	20.06	Decrease	-0.55	Hydrocarbon odor; yellow, algae-like particulate
MW-8	09/13/17	28.01	14.09	8.49	8.49	0.00	19.52	Decrease	-0.54	Hydrocarbon odor; yellow

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-9	05/10/12	27.23	15.09	6.25	6.25	0.00	20.98	NA	NA	2" Diameter well
MW-9	11/14/12	27.23	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-9	04/17/13	27.23	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-9	06/26/14	27.23	14.82	7.78	7.78	0.00	19.45	NA	NA	
MW-9	12/05/14	27.23	14.84	7.10	7.10	0.00	20.13	Rise	0.68	
MW-9	12/31/14	27.23	14.8	5.80	5.80	0.00	21.43	Rise	1.30	
MW-9	01/22/15	27.23	14.8	6.45	6.45	0.00	20.78	Decrease	-0.65	
MW-9	02/19/15	27.23	14.75	6.55	6.55	0.00	20.68	Decrease	-0.10	
MW-9	06/11/15	27.23	15.06	7.59	7.59	0.00	19.64	Decrease	-1.04	
MW-9	08/10/15	27.23	15.03	8.21	8.21	0.00	19.02	Decrease	-0.62	
MW-9	11/10/15	27.23	15.03	8.76	8.76	0.00	18.47	Decrease	-0.55	
MW-9	02/02/16	27.23	14.66	6.05	6.05	0.00	21.18	Rise	2.71	
MW-9	05/16/16	27.23	14.91	6.95	6.95	0.00	20.28	Decrease	-0.90	
MW-9	08/16/16	27.23	14.59	8.14	8.14	0.00	19.09	Decrease	-1.19	
MW-9	12/01/16	27.23	16.78	7.48	7.48	0.00	19.75	Decrease	-0.53	Cloudy, no odor
MW-9	03/03/17	27.23	14.78	4.63	4.63	0.00	22.60	Rise	2.32	Cloudy - grayish
MW-9	05/17/17	27.23	14.78	6.25	6.25	0.00	20.98	Decrease	-1.62	Cloudy - brownish
MW-9	09/13/17	27.23	14.79	7.52	7.52	0.00	19.71	Decrease	-1.27	
MW-10	05/10/12	27.45	13.12	6.49	6.49	0.00	20.96	NA	NA	2" Diameter well
MW-10	11/14/12	27.45	13.12	7.31	7.31	0.00	20.14	Decrease	-0.82	
MW-10	04/18/13	27.45	12.95	7.04	7.04	0.00	20.41	Rise	0.27	
MW-10	06/26/14	27.45	12.86	7.86	7.86	0.00	19.59	Decrease	-0.82	
MW-10	12/05/14	27.45	12.81	6.89	6.89	0.00	20.56	Rise	0.97	Slow-moving water, copious bubbles
MW-10	12/31/14	27.45	12.95	5.80	5.80	0.00	21.65	Rise	1.09	
MW-10	01/22/15	27.45	12.95	6.60	6.60	0.00	20.85	Decrease	-0.80	
MW-10	02/19/15	27.45	12.95	6.75	6.75	0.00	20.70	Decrease	-0.15	
MW-10	06/11/15	27.45	13.19	7.62	7.62	0.00	19.83	Decrease	-0.87	
MW-10	08/10/15	27.45	13.16	8.19	8.19	0.00	19.26	Decrease	-0.57	Turbidity flashed 1,000
MW-10	11/10/15	27.45	13.15	8.73	8.73	0.00	18.72	Decrease	-0.54	
MW-10	02/02/16	27.45	12.81	6.22	6.22	0.00	21.23	Rise	2.51	
MW-10	05/16/16	27.45	13.09	7.05	7.05	0.00	20.40	Decrease	-0.83	
MW-10	08/16/16	27.45	12.81	8.09	8.09	0.00	19.36	Decrease	-1.04	
MW-10	12/01/16	27.45	13.05	7.39	7.39	0.00	20.06	Decrease	-0.34	
MW-10	03/02/17	27.45	13.50	5.05	5.05	0.00	22.40	Rise	2.00	Cloudy
MW-10	05/17/17	27.45	13.20	6.59	6.59	0.00	20.86	Decrease	-1.54	
MW-10	09/13/17	27.45	13.30	7.35	7.35	0.00	20.10	Decrease	-0.76	
MW-11R	05/10/12	28.92	23.87	8.02	8.02	0.00	20.90	NA	NA	2" Diameter well
MW-11R	11/14/12	28.92	23.95	9.18	9.18	0.00	19.74	Decrease	-1.16	
MW-11R	04/17/13	28.92	24.4	8.14	8.14	0.00	20.78	Rise	1.04	
MW-11R	06/26/14	28.92	23.64	9.30	9.30	0.00	19.62	Decrease	-1.16	
MW-11R	12/04/14	28.92	23.65	8.90	8.90	0.00	20.02	Rise	0.40	
MW-11R	12/31/14	28.92	23.65	8.15	8.15	0.00	20.77	Rise	0.75	
MW-11R	01/23/15	28.92	23.65	8.40	8.40	0.00	20.52	Decrease	-0.25	Turbidity reading repeatedly flashed "0.00"
MW-11R	02/20/15	28.92	23.65	8.60	8.60	0.00	20.32	Decrease	-0.20	
MW-11R	06/12/15	28.92	23.89	10.06	10.06	0.00	18.86	Decrease	-1.46	
MW-11R	08/10/15	28.92	23.91	10.92	10.92	0.00	18.00	Decrease	-0.86	
MW-11R	11/11/15	28.92	23.87	11.20	11.20	0.00	17.72	Decrease	-0.28	
MW-11R	02/03/16	28.92	23.61	7.95	7.95	0.00	20.97	Rise	3.25	
MW-11R	05/16/16	28.92	23.94	9.67	9.67	0.00	19.25	Decrease	-1.72	
MW-11R	08/16/16	28.92	23.62	10.58	10.58	0.00	18.34	Decrease	-0.91	Murky purge water
MW-11R	12/01/16	28.92	23.94	9.56	9.56	0.00	19.36	Rise	1.02	Hydrocarbon odor
MW-11R	03/03/17	28.92	23.97	7.14	7.14	0.00	21.78	Rise	2.42	Light hydrocarbon odor
MW-11R	05/18/17	28.92	23.93	9.05	9.05	0.00	19.87	Decrease	-1.91	Hydrocarbon odor
MW-11R	09/14/17	28.92	23.93	10.33	10.33	0.00	18.59	Decrease	-1.28	Hydrocarbon odor, black sediment in purge water

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-12	05/10/12	28.73	24.37	7.96	7.96	0.00	20.77	NA	NA	2" Diameter well
MW-12	11/14/12	28.73	24.35	9.37	9.37	0.00	19.36	Decrease	-1.41	
MW-12	04/17/13	28.73	24.30	9.10	9.10	0.00	19.63	Rise	0.27	
MW-12	06/26/12	28.73	24.33	8.86	8.86	0.00	19.87	Rise	0.24	
MW-12	12/04/14	28.73	24.35	9.95	9.95	0.00	18.78	Decrease	-1.09	
MW-12	12/31/14	28.73	24.35	8.20	8.20	0.00	20.53	Rise	1.75	
MW-12	01/23/15	28.73	24.35	8.80	8.80	0.00	19.93	Decrease	-0.60	
MW-12	02/16/15	28.73	24.35	9.50	9.50	0.00	19.23	Decrease	-0.70	
MW-12	06/12/15	28.73	24.56	10.03	10.03	0.00	18.70	Decrease	-0.53	
MW-12	08/10/15	28.73	24.59	10.82	10.82	0.00	17.91	Decrease	-0.79	
MW-12	11/11/15	28.73	24.58	11.12	11.12	0.00	17.61	Decrease	-0.30	
MW-12	02/03/16	28.73	24.31	8.14	8.14	0.00	20.59	Rise	2.98	
MW-12	05/16/16	28.73	24.59	9.51	9.51	0.00	19.22	Decrease	-1.37	
MW-12	08/17/16	28.73	24.29	10.58	10.58	0.00	18.15	Decrease	-1.07	
MW-12	12/01/16	28.73	24.62	10.20	10.20	0.00	18.53	Decrease	-0.69	
MW-12	03/03/17	28.73	24.66	6.81	6.81	0.00	21.92	Rise	2.70	
MW-12	05/18/17	28.73	24.62	8.65	8.65	0.00	20.08	Decrease	-1.84	
MW-12	09/14/17	28.73	24.64	10.10	10.10	0.00	18.63	Decrease	-1.45	
MW-13	05/10/12	29.21	20.02	8.57	8.57	0.00	20.64	NA	NA	2" Diameter well
MW-13	11/14/12	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	04/17/13	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	06/26/14	29.21	20.02	9.87	9.87	0.00	19.34	NA	NA	
MW-13	12/04/14	29.21	20.00	9.25	9.25	0.00	19.96	Rise	0.62	
MW-13	12/31/14	29.21	NM	NM	NM	NM	NA	NA	NA	Property closed, couldn't access well.
MW-13	01/23/15	29.21	20.00	11.20	11.20	0.00	18.01	Decrease	-1.95	
MW-13	02/20/15	29.21	20.00	11.55	11.55	0.00	17.66	Decrease	-0.35	
MW-13	06/12/15	29.21	20.28	9.39	9.39	0.00	19.82	Rise	2.16	
MW-13	08/10/15	29.21	20.32	9.87	9.87	0.00	19.34	Decrease	-0.48	Turbidity flashed 0.0
MW-13	11/11/15	29.21	20.32	10.26	10.26	0.00	18.95	Decrease	-0.39	
MW-13	02/03/16	29.21	20.02	9.29	9.29	0.00	19.92	Rise	0.97	
MW-13	05/16/16	29.21	20.32	9.04	9.04	0.00	20.17	Rise	0.25	
MW-13	08/17/16	29.21	19.98	11.71	11.71	0.00	17.50	Decrease	-2.67	Cloudy purge water
MW-13	12/01/16	29.21	20.33	9.80	9.80	0.00	19.41	Decrease	-0.76	Cloudy, brownish purge water
MW-13	03/02/17	29.21	20.33	7.71	7.71	0.00	21.50	Rise	1.33	Cloudy, gray purge water
MW-13	05/17/17	29.21	23.33	8.73	8.73	0.00	20.48	Decrease	-1.02	Cloudy
MW-13	09/13/17	29.21	20.33	10.60	10.60	0.00	18.61	Decrease	-1.87	Yellowish
MW-14	05/10/12	29.02	11.62	8.28	8.28	0.00	20.74	NA	NA	2" Diameter well
MW-14	11/14/12	29.02	11.71	9.20	9.20	0.00	19.82	Decrease	-0.92	
MW-14	04/17/13	29.02	11.60	8.45	8.45	0.00	20.57	Rise	0.75	
MW-14	06/26/14	29.02	11.38	9.34	9.34	0.00	19.68	Decrease	-0.89	
MW-14	12/04/14	29.02	11.40	8.30	8.30	0.00	20.72	Rise	1.04	
MW-14	12/31/14	29.02	NM	NM	NM	NM	NA	NA	NA	Property closed, couldn't access well.
MW-14	01/23/15	29.02	11.50	8.25	8.25	0.00	20.77	Rise	0.05	
MW-14	02/20/15	29.02	11.40	8.30	8.30	0.00	20.72	Decrease	-0.05	
MW-14	06/12/15	29.02	10.67	9.18	9.18	0.00	19.84	Decrease	-0.88	
MW-14	08/10/15	29.02	11.66	9.65	9.65	0.00	19.37	Decrease	-0.47	
MW-14	11/11/15	29.02	11.68	10.07	10.07	0.00	18.95	Decrease	-0.42	
MW-14	02/03/16	29.02	11.37	7.98	7.98	0.00	21.04	Rise	2.09	
MW-14	05/16/16	29.02	11.68	8.61	8.61	0.00	20.41	Decrease	-0.63	
MW-14	08/17/16	29.02	11.36	9.62	9.62	0.00	19.40	Decrease	-1.01	Hydrocarbon odor
MW-14	12/01/16	29.02	11.69	9.07	9.07	0.00	19.95	Rise	0.55	Cloudy; Hydrocarbon odor
MW-14	03/02/17	29.02	11.69	7.29	7.29	0.00	21.73	Rise	1.78	Hydrocarbon odor, cloudy; brownish-yellow
MW-14	05/17/17	29.02	11.69	8.47	8.47	0.00	20.55	Decrease	-1.18	Hydrocarbon odor, grayish color
MW-14	09/13/17	29.02	11.69	9.51	9.51	0.00	19.51	Decrease	-1.04	Hydrocarbon odor, grayish color

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)	Comments
MW-15	05/10/12	28.53	29.70	7.90	7.90	0.00	20.63	NA	2" Diameter well
MW-15	11/14/12	28.53	NM	NM	NM	NM	NA	NA	Not gauged nor sampled
MW-15	04/17/13	28.53	NM	NM	NM	NM	NA	NA	Not gauged nor sampled
MW-15	06/26/14	28.53	29.39	9.85	9.85	0.00	18.68	NA	NA
MW-15	12/05/14	28.53	29.57	9.39	9.39	0.00	19.14	Rise	0.46
MW-15	12/31/14	28.53	29.4	7.95	7.95	0.00	20.58	Rise	1.44
MW-15	01/23/15	28.53	29.4	8.85	8.85	0.00	19.68	Decrease	-0.90
MW-15	02/20/15	28.53	29.4	9.05	9.05	0.00	19.48	Decrease	-0.20
MW-15	06/12/15	28.53	29.64	9.85	9.85	0.00	18.68	Decrease	-0.80
MW-15	08/10/15	28.53	29.69	10.38	10.38	0.00	18.15	Decrease	-0.53
MW-15	11/11/15	28.53	29.68	11.38	11.38	0.00	17.15	Decrease	-1.00
MW-15	02/03/16	28.53	29.36	8.04	8.04	0.00	20.49	Rise	3.34
MW-15	05/16/16	28.53	29.62	9.31	9.31	0.00	19.22	Decrease	-1.27
MW-15	08/17/16	28.53	29.32	10.98	10.98	0.00	17.55	Decrease	-1.67
MW-15	12/01/16	28.53	29.57	10.13	10.13	0.00	18.40	Rise	0.85
MW-15	03/02/17	28.53	29.69	7.80	7.80	0.00	20.73	Rise	2.33
MW-15	05/17/17	28.53	29.69	8.81	8.81	0.00	19.72	Decrease	-1.01
MW-15	09/13/17	28.53	29.62	9.94	9.94	0.00	18.59	Decrease	-1.13
MW-15									
MW-16	05/10/12	28.52	29.38	7.86	7.86	0.00	20.66	NA	2" Diameter well
MW-16	11/14/12	28.52	29.37	8.92	8.92	0.00	19.60	Decrease	-1.06
MW-16	04/17/13	28.52	24.75	7.63	7.63	0.00	20.89	Rise	1.29
MW-16	06/26/14	28.52	29.37	9.04	9.04	0.00	19.48	Decrease	-1.41
MW-16	12/05/14	28.52	29.4	8.20	8.20	0.00	20.32	Rise	0.84
MW-16	12/31/14	28.52	29.4	7.65	7.65	0.00	20.87	Rise	0.55
MW-16	01/23/15	28.52	29.4	8.45	8.45	0.00	20.07	Decrease	-0.80
MW-16	02/20/15	28.52	29.4	8.50	8.50	0.00	20.02	Decrease	-0.05
MW-16	06/12/15	28.52	29.67	9.33	9.33	0.00	19.19	Decrease	-0.83
MW-16	08/10/15	28.52	26.5	9.88	9.88	0.00	18.64	Decrease	-0.55
MW-16	11/11/15	28.52	29.63	10.34	10.34	0.00	18.18	Decrease	-0.46
MW-16	02/03/16	28.52	29.36	7.91	7.91	0.00	20.61	Rise	2.43
MW-16	05/16/16	28.52	29.61	8.91	8.91	0.00	19.61	Decrease	-1.00
MW-16	08/17/16	28.52	29.35	9.81	9.81	0.00	18.71	Decrease	-0.90
MW-16	12/01/16	28.52	29.65	9.42	9.42	0.00	19.10	Rise	0.39
MW-16	03/02/17	28.52	29.69	7.45	7.45	0.00	21.07	Rise	1.97
MW-16	05/17/17	28.52	29.66	8.37	8.37	0.00	20.15	Decrease	-0.92
MW-16	09/13/17	28.52	29.67	9.62	9.62	0.00	18.90	Decrease	-1.25
MW-16									
EW-14	05/10/12	28.89	24.80	8.15	8.15	0.00	20.74	NA	4" Diameter well
EW-14	11/14/12	28.89	NM	NM	NM	ND	NA	NA	Not Sampled and only gauged for LPH
EW-14	04/17/13	29.89	NM	NM	NM	ND	NA	NA	Not gauged nor sampled
EW-14	06/25/14	29.89	24.41	9.24	9.24	0.00	20.65	NA	NA
EW-14	12/05/14	29.89	NM	NM	NM	ND	NA	NA	Converted to an injection well
EW-14	12/31/14	29.89	NM	NM	NM	ND	NA	NA	
EW-14	01/23/15	29.89	NM	NM	NM	ND	NA	NA	
EW-14	02/20/15	29.89	NM	NM	NM	ND	NA	NA	
EW-14	06/11/15	29.89	NM	NM	NM	ND	NA	NA	
EW-14	08/10/15	29.89	NM	NM	NM	ND	NA	NA	
EW-14	11/11/15	29.89	NM	NM	NM	ND	NA	NA	
EW-14	02/03/16	29.89	NM	NM	NM	ND	NA	NA	
EW-14	05/16/16	29.89	NM	NM	NM	ND	NA	NA	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)	Comments
EW-15	05/10/12	28.66	24.50	8.06	8.06	0.00	20.60	NA	4" Diameter well
EW-15	11/14/12	28.66	NM	NM	NM	ND	NA	NA	Not Sampled and only gauged for LPH
EW-15	04/17/13	28.66	NM	NM	NM	ND	NA	NA	Not gauged nor sampled
EW-15	06/25/14	28.66	24.14	9.03	9.03	0.00	19.63	NA	NA
EW-15	12/05/14	28.66	NM	NM	NM	ND	NA	NA	Converted to an injection well
EW-15	12/31/14	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	01/23/15	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	02/20/15	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	06/11/15	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	08/10/15	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	11/11/15	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	02/03/16	28.66	NM	NM	NM	ND	NA	NA	NA
EW-15	05/16/16	28.66	NM	NM	NM	ND	NA	NA	NA
EW-16	05/10/12	28.99	24.80	8.37	8.37	0.00	20.62	NA	4" Diameter well
EW-16	11/14/12	28.99	NM	NM	NM	ND	NA	NA	Not Sampled and only gauged for LPH
EW-16	04/17/13	28.99	NM	NM	NM	ND	NA	NA	Not gauged nor sampled
EW-16	06/26/14	28.99	22.74	9.29	9.29	0.00	19.70	NA	NA
EW-16	12/05/14	28.99	NM	NM	NM	ND	NA	NA	Converted to an injection well
EW-16	12/31/14	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	01/23/15	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	02/20/15	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	06/11/15	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	08/10/15	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	11/11/15	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	02/03/16	28.99	NM	NM	NM	ND	NA	NA	NA
EW-16	05/16/16	28.99	NM	NM	NM	ND	NA	NA	NA
EW-17	05/10/12	28.89	25.29	8.19	8.19	0.00	20.70	NA	4" Diameter well
EW-17	11/14/12	28.89	NM	NM	NM	ND	NA	NA	Not Sampled and only gauged for LPH
EW-17	04/17/13	28.89	NM	NM	NM	ND	NA	NA	Not gauged nor sampled
EW-17	06/25/14	28.89	24.12	9.27	9.27	0.00	19.62	NA	NA
EW-17	12/05/14	28.89	NM	NM	NM	ND	NA	NA	Converted to an injection well
EW-17	12/31/14	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	01/23/15	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	02/20/15	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	06/11/15	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	08/10/15	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	11/11/15	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	02/03/16	28.89	NM	NM	NM	ND	NA	NA	NA
EW-17	05/16/16	28.89	NM	NM	NM	ND	NA	NA	NA
EW-18	06/25/14	28.47	14.74	8.91	8.91	0.00	19.56	NA	4" Diameter well
EW-18	12/05/14	28.47	NM	NM	NM	ND	NA	NA	Converted to an injection well
EW-18	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA
EW-18	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-18	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	02/03/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	05/16/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-19	06/25/14	28.34	14.56	8.74	8.74	0.00	19.60	NA	NA	4" Diameter well
EW-19	12/05/14	28.34	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-19	12/31/14	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	01/23/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	02/20/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	06/11/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	08/10/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	11/11/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	02/03/16	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	05/16/16	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-20	06/25/14	28.52	24.2	8.90	8.90	0.00	19.62	NA	NA	4" Diameter well
EW-20	12/05/14	28.52	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-20	12/31/14	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	01/23/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	02/20/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	06/11/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	08/10/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	11/11/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	02/03/16	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	05/16/16	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-21	06/26/14	29.09	24.54	9.75	9.75	0.00	19.34	NA	NA	4" Diameter well
EW-21	12/05/14	29.09	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-21	12/31/14	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	01/23/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	02/20/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	06/11/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	08/10/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	11/11/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	02/03/16	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	05/16/16	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/26/14	28.47	23.86	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-22	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-22	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/03/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	05/16/16	28.47	NM	NM	NM	ND	NA	NA	NA	
	Date	Gradient and Groundwater Flow Direction		Average Groundwater Elevation (feet MSL)		Change in Average GW Elevation (feet)				
	05/10/12	0.002	SW	20.72		NA				
	11/14/12	0.004	NE	19.78		-0.94				
	04/17/13	0.005/ 0.012	WSW/NE	20.46		0.68				
	06/26/14	Varies	Varies	19.60		-0.85				
	12/05/14	Varies	Varies	20.15		0.55				
	12/31/14	Varies	Varies	21.24		1.10				
	01/23/15	Varies	Varies	20.35		-0.89				
	02/20/15	Varies	Varies	20.21		-0.14				
	06/12/15	Varies	Varies	19.61		-0.61				
	08/10/15	Varies	Varies	19.05		-0.56				
	11/11/15	Varies	Varies	18.51		-0.54				
	2/3/2016	Varies	Varies	20.91		2.40				
	5/16/2016	Varies	Varies	20.11		-0.80				
	8/16/2016	Varies	Varies	18.94		-1.17				
	12/1/2016	Varies	Varies	19.65		0.71				
	3/2/2017	Varies	Varies	21.84		2.18				
	5/18/2017	Varies	Varies	20.41		-1.43				
	9/13/2017	Varies	Varies	19.36		-1.05				
Notes:										
Top-of-Casing (TOC) elevations were surveyed by Virgil Chavez Land Surveying on May 10, 2012.										
MSL=Mean Sea Level										
NM = Not Measured										
NA = Not Applicable										
ND = Not Detected										

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-2R	5/10/2012	57,000	9,400	6,500	1,100	5,100	380	<25	<25	1,100	310	30	<25	<25	96	51	<25	270	<25	ND
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/2/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4R	5/10/2012	3,300	3.3	17	180	824	89	<0.50	<0.50	<0.50	210	63	2.7	<0.50	<0.50	42	13	91	10	ND
MW-4R	11/14/2012	420	51	0.66	0.66	2.54	68	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	47	3.9	7.8	9.1	ND
MW-4R	4/17/2013	2,000	190	140	46	155	62	<0.50	1.0	<0.50	28	7.4	<0.50	<0.50	<0.50	30	4.6	51	7.0	Di-isopropylether 0.33J
MW-4R	6/25/2014	740	55	0.37J	1.7	0.59J	46	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	2.3	27	3.0	ND
MW-4R	12/4/2014	2,000	160	1.3	4.7	12	150	<0.50	<0.50	<0.50	4.2	1.3	<0.50	<0.50	<0.50	70	18.0	140	11	ND
MW-4R	12/31/2014	1,200	13	21	3.1	340	57	<2.5	<2.5	<2.5	130	20	<5.0	<5.0	<5.0	12	5.8	5.5	<5.0	ND
MW-4R	1/22/2015	1,800	140	87	15	720	96	<2.5	<2.5	<2.5	180	11	<5.0	<5.0	<5.0	12	<5.0	8	<5.0	ND
MW-4R	2/19/2015	4,000	880	130	23	1,300	240	<2.5	<2.5	<2.5	270	21	<5.0	<5.0	<5.0	27	8.6	16	6	ND
MW-4R	6/11/2015	1,600	590	24	6.8	340	280	<2.5	<2.5	<2.5	65	6.3	<5.0	<5.0	<5.0	70.0	6.0	<5.0	10	ND
MW-4R	8/11/2015	1,200	360	<5.0	<5.0	130	200	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	62	<5.0	<5.0	<5.0	ND
MW-4R	11/10/2015	7,900	1,600	1,900	430	1,300	270	<5.0	<5.0	<5.0	360	77	<10	<10	<10	73	20	69	13	ND
MW-4R	2/2/2016	5,000	720	710	200	1,000	160	<10	<10	<10	210	42	<20	<20	<20	32	<20	26	<20	ND
MW-4R	5/16/2016	10,000	1,500	2,500	530	2,500	230	<10	<10	<10	290	63	<20	<20	<20	56	<20	47	<20	ND
MW-4R	8/16/2016	18,000	1,900	3,800	980	4,500	230	<10	<10	<10	600	120	<20	<20	<20	68	<20	99	<20	ND
MW-4R	12/2/2016	13,000	1,500	3,100	940	4,000	180	<5.0	<5.0	<5.0	550	110	<10	<10	<10	56	12	76	10	ND
MW-4R	3/3/2017	660	130	27	42	130	11	<0.50	<0.50	<0.50	26	5.0	<0.50	<0.50	<1.0	3.0	0.87	4.6	<0.50	ND
MW-4R	5/18/2017	14,000	1,800	2,900	810	3,300	130	<0.50	<0.50	<0.50	320	70.0	0.8	<0.50	<1.0	31.0	5	56	<0.50	2-Chlorotoluene 36 4-Methyl-2-pentanone (MIBK) 15 Acetone 15

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-4R	9/27/2017	<50	1.3	<0.50	0.55	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	0.70	ND
MW-5R	5/10/2012	33,000	150	2,700	2,500	11,100	680	<25	<25	<25	2,400	620	52	<25	<25	210	99	630	46	ND
MW-5R	11/14/2012	32,000	130	2,400	2,900	15,200	620	<5.0	<5.0	<5.0	3,600	720	<5.0	<5.0	<5.0	180	90	490	33	ND
MW-5R	4/17/2013	35,000	240	2,400	2,000	9,500	400	<5.0	<5.0	<5.0	2,200	510	<5.0	<5.0	<5.0	140	59	390	<5.0	Styrene 4.7J
MW-5R	6/25/2014	32,000	210	970	1,700	7,900	470	<5.0	<5.0	<5.0	2,200	400	40	<5.0	<5.0	120	55	330	20	ND
MW-5R	12/4/2014	32,000	1,400	3,700	2,100	9,500	720	<50	<50	<50	1,700	410	<100	<100	<100	170	<100	470	<100	ND
MW-5R	12/31/2014	47,000	1,000	5,900	2,100	14,000	890	<50	<50	<50	2,900	620	<100	<100	<100	160	<100	380	<100	ND
MW-5R	1/22/2015	45,000	1,200	8,900	2,300	15,000	870	<50	<50	<50	2,500	510	<100	<100	<100	160	<100	340	<100	ND
MW-5R	2/19/2015	50,000	1,600	11,000	2,600	17,000	760	<50	<50	<50	2,600	520	<100	<100	<100	150	<100	300	<100	ND
MW-5R	6/11/2015	51,000	1,800	7,600	4,200	23,000	1,000	<50	<50	<50	3,200	760	<100	<100	<100	220	<100	450	<100	ND
MW-5R	8/11/2015	39,000	1,200	4,100	2,900	17,000	590	<50	<50	<50	1,800	390	<100	<100	<100	100	<100	210	<100	ND
MW-5R	11/10/2015	48,000	1,800	7,700	3,800	24,000	700	<50	<50	<50	2,200	470	<100	<100	<100	110	<100	270	<100	ND
MW-5R	2/2/2016	58,000	1,100	9,300	2,700	18,000	640	<50	<50	<50	2,300	510	<100	<100	<100	92	<100	230	<100	ND
MW-5R	5/16/2016	30,000	2,000	7,800	1,300	8,900	640	<50	<50	<50	820	190	<100	<100	<100	85	<100	110	<100	ND
MW-5R	8/16/2016	62,000	2,400	14,000	3,800	20,000	690	<50	<50	<50	2,300	520	<100	<100	<100	120	<100	300	<100	ND
MW-5R	12/2/2016	63,000	1,100	13,000	4,100	24,000	670	<50	<50	<50	2,600	580	<100	<100	<100	<100	<100	320	<100	ND
MW-5R	3/3/2017	15,000	49	660	570 F1	3,700	310	<5.0	<5.0	<5.0	570	140	<5.0	<5.0	<10	53	17	73	<5.0	ND
MW-5R	5/18/2017	39,000	85 J	930	1,400	8,300	540	<5.0	<5.0	<5.0	1,500	350	<5.0	<5.0	<10	110	40	210	15	ND
MW-5R	9/14/2017	48,000	5,000	8,600	2,100	11,000	380	<50	<50	<50	1,600	380	<100	<100	<100	77	<100	180	<100	ND
MW-6R	5/10/2012	3,600	8.6	52	120	680	79	<0.50	<0.50	<0.50	210	67	16	<0.50	<0.50	20	25	50	9.9	ND
MW-6R	11/14/2012	900	2.4	7.1	83	131	30	<0.50	<0.50	<0.50	61	13	0.61	<0.50	<0.50	12	3.2	28	3.1	ND
MW-6R	4/17/2013	1,800	220	21	64	157	29	<0.50	<0.50	<0.50	60	14	<0.50	<0.50	<0.50	24	2.1	27	7.6	ND
MW-6R	6/25/2014	1,700	4.3	9.4	55	181	49	<0.50	<0.50	<0.50	72	13	2.7	<0.50	<0.50	17	3.4	32	4.5	ND
MW-6R	12/4/2014	3,700	73	38	79	810	160	<0.50	<0.50	<0.50	210	74	1.2	<0.50	<1.0	66	16	140	10	2-chlorotoluene 19
MW-6R	12/31/2014	1,800	5.0	22	9.0	250	240	<2.5	<2.5	<2.5	90	21	<5.0	<5.0	<5.0	66	14	42	11	ND
MW-6R	1/22/2015	2,000	110	27	9.7	390	260	<2.5	<2.5	<2.5	140	30	<5.0	<5.0	<5.0	59	13	9.2	13	ND
MW-6R	2/19/2015	2,700	54	53	18	730	230	<2.5	<2.5	<2.5	260	55	<5.0	<5.0	<5.0	47	13	11	12	ND
MW-6R	6/11/2015	1,600	12	46	32	620	120	<2.5	<2.5	<2.5	170	29	<5.0	<5.0	<5.0	30	9.4	17	8.7	ND
MW-6R	8/11/2015	1,700	22	91	60	580	69	<2.5	<2.5	<2.5	110	13	<5.0	<5.0	<5.0	18	<5.0	8.9	<5.0	ND
MW-6R	11/10/2015	1,400	23	140	61	520	100	<2.5	<2.5	<2.5	96	5.6	<5.0	<5.0	<5.0	19	6.2	9.1	6.1	ND
MW-6R	2/2/2016	560	8.7	81	20	160	6.3	<2.5	<2.5	<2.5	21	<2.5	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-6R	5/16/2016	600	20	99	21	150	18	<0.50	<0.50	<0.50	21	2.4	<1.0	<1.0	<1.0	3.5	1.6	2.4	1.3	ND
MW-6R	8/16/2016	970	20	120	32	210	39	<0.50	<0.50	<0.50	26	3.1	<1.0	<1.0	<1.0	22	5.8	6.2	7.6	ND
MW-6R	12/2/2016	<50	<0.50	<0.50	<0.50	6.3	2.4	<0.50	<0.50	<0.50	3.6	<0.50	<1.0	<1.0	<1.0	0.98	<1.0	<1.0	<1.0	ND
MW-6R	3/2/2017	60	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-6R	5/17/2017	57	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	0.93	ND
MW-6R	9/27/2017	75	<0.50	<0.50	<0.50	1.7	1.8	<0.50	<0.50	<0.50	0.65	<0.50	<0.50	<0.50	<0.50	1.3	<1.0	<0.50	1.5	ND
MW-7R	5/10/2012	160,000	14,000	42,000	3,900	26,700	660	<25	<25	<25	3,300	960	49	<25	<25	120	<25	370	26	ND
MW-7R	11/14/2012	84,000	15,000	26,000	3,700	19,300	480	<100	<100	<100	2,300	610	<100	<100	<100	120	48J	370	<100	ND
MW-7R	4/17/2013	160,000	17,000	45,000	4,500	22,300	350	<100	<100	<100	2,000	580	<100	<100	<100	98 J	<100	300	<100	ND
MW-7R	6/25/2014	240,000	18,000	38,000	3,900	21,100	630	<50	<50	<50	2,200	560	180	<50	<50	89	<50	270	<50	ND
MW-7R	12/4/2014	110,000	15,000	36,000	4,000	21,000	660	<50	<50	<50	2,400	630	<100	<100	<100	110	<100	320	<100	ND
MW-7R	12/31/2014	110,000	11,000	38,000	3,800	22,000	690	<250	<250	<250	2,100	560	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	1/22/2015	110,000	11,000	42,000	4,000	23,000	720	<250	<250	<250	2,100	520	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	2/19/2015	92,000	7,000	33,000	3,400	20,000	520	<250	<250	<250	1,900	460	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	6/11/2015	78,000	3,200	29,000	3,800	23,000	730	<250	<250	<250	2,100	560	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	8/11/2015	69,000	1,600	20,000	3,200	22,000	520	<250	<250	<250	1,700	400	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	11/10/2015	55,000	650	11,000	2,500	21,000	710	<250	<250	<250	2,100	530	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	2/2/2016	55,000	1,200	14,000	1,700	14,000	<500	<250	<250	<250	1,200	<250	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	5/16/2016	55,000	1,000	11,000	2,300	18,000	700	<100	<100	<100	2,100	550	<200	<200	<200	110	<200	230	<200	ND
MW-7R	8/16/2016	46,000	320	4,900	1,700	17,000	860	<100	<100	<100	2,200	550	<200	<200	<200	110	<200	230	<200	ND
MW-7R	12/2/2016	40,000	<250	7,300	1,600	16,000	560	<250	<250	<250	1,800	<500	450	<500	<500	<250	<500	<500	<500	ND
MW-7R	3/3/2017	57,000	820	5,800	870	15,000	550	<25	<25	<25	2,300	620	<25	<25	<50	83	40	170	<25	Acetone 280
MW-7R	5/18/2017	85,000	510	4,000	470	22,000	740	<25	<25	<25	2,800	730	<25	<25	<50	120	<25	240	<25	Acetone 360
MW-7R	9/14/2017	37,000	<250	3,700	560	16,000	700	<250	<250	<250	2,000	480	<500	<500	<500	<250	<500	<500	<500	ND
MW-8	5/10/2012	2,700	15	20	5.3	34	72	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0	<1.0	24	1.7	24	3.8	ND
MW-8	11/14/2012	790	14	3.0	0.98	5.83	14	<0.50	<0.50	<0.50	0.39J	0.41J	<0.50	<0.50	<0.50	13.00	0.8	13	2.2	tert-Butylbenzene 0.38J
MW-8	4/17/2013	1,100	6.8	6.4	5.6	16.8	21	<0.50	<0.50	<0.50	1.9	1.6	<0.50	<0.50	<0.50	9.90	0.89	11	1.6	tert-Butylbenzene 0.25J
MW-8	6/25/2014	420	2.4	2.2	0.6	3.64 J	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	0.26 J	3.7	0.67	Styrene 0.91
MW-8	12/5/2014	1,900	22	52	11	63	46	<0.50	<0.50	<0.50	6.3	2.4	<1.0	<1.0	<1.0	20	2.3	21	4.1	ND
MW-8	12/31/2014	960	9.8	5.9	2.0	12	34	<0.50	<0.50	<0.50	<0.50	0.7	<1.0	<1.0	<1.0	12	1.4	13	2.3	ND
MW-8	1/22/2015	1,400	7.8	7.7	2.7	15	45	<0.50	<0.50	<0.50	<0.50	0.74	<1.0	<1.0	<1.0	14	1.4	14	2.4	ND
MW-8	2/19/2015	1,600	7.2	7.8	2.8	16	50	<0.50	<0.50	<0.50	<0.50	0.76	<1.0	<1.0	<1.0	15	1.6	16	2.6	ND
MW-8	6/11/2015	1,400	6.6	9.8	2.9	17	39	<0.50	<0.50	<0.50	<0.50	0.81	<1.0	<1.0	<1.0	17	1.7	16	3.1	ND
MW-8	8/11/2015	1,600	15	15	3.7	23	83	<0.50	<0.50	<0.50	<0.50	1.1	<1.0	<1.0	<1.0	22	2.1	23	3.5	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs	
		Analytical Results (µg/L)																			
MW-8	11/10/2015	1,600	20	8.1	2.5	14	44	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<1.0	<1.0	20	1.9	20	3.4	ND	
MW-8	2/2/2016	2,200	15	12.0	3.7	20	74	<0.50	<0.50	<0.50	<0.50	0.73	<1.0	<1.0	<1.0	18	1.7	19	3.0	ND	
MW-8	5/16/2016	1,300	4.6	6.2	2.8	13	39	<0.50	<0.50	<0.50	<0.50	0.67	<1.0	<1.0	<1.0	14	1.3	14	2.4	ND	
MW-8	8/16/2016	1,900	13	9.8	3.1	16	47	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<1.0	<1.0	21	1.9	20	3.9	ND	
MW-8	12/2/2016	2,600	21	9.4	2.8	16	68	<0.50	<0.50	<0.50	<0.50	0.88	<1.0	<1.0	<1.0	24	2.5	25	4.3	ND	
MW-8	3/3/2017	750	2.1	4.6	1.7	9.5	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.2	<0.50	7.7	0.75	Acetone 7.6	
MW-8	5/18/2017	1,000	3.3	4.0	1.5	9.3	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	8.5	<0.50	8.4	1.00	Acetone 6.9	
MW-8	9/13/2017	1,900	9.8	11	2.9	23	54	<0.50	<0.50	<0.50	<0.50	1.3	<1.0	<1.0	<1.0	20	1.8	20	3.7	Vinyl Acetate - 17	
MW-9	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-9	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-9	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	0.82	<1.0	<1.0	1.3	<1.0	ND
MW-9	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	0.82	<1.0	<1.0	<1.0	<1.0	ND
MW-9	5/16/2016	58	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	3.9	<1.0	ND
MW-9	8/16/2016	100	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	3.9	<1.0	ND
MW-9	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-9	3/3/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	ND
MW-9	5/17/2017	<50	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	1.2	<1.0	ND
MW-9	9/13/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-10	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	4/18/2013	530	20	110	19	97	2.6	<0.50	<0.50	<0.50	12	3.5	<0.50	<0.50	<0.50	0.65	0.23 J	2.1	<0.50	<0.50	ND
MW-10	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	12/5/2014	530	5.4	100	28	170	7.4	<0.50	<0.50	<0.50	22	6.5	<1.0	<1.0	<1.0	1.5	<1.0	3.6	<1.0	<1.0	ND
MW-10	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-10	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
MW-10	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-10	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	1.5	ND
MW-10	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	5/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	8/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	ND
MW-10	5/17/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	ND
MW-10	9/13/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-11R	5/10/2012	22,000	<25	170	910	6,300	440	<25	<25	<25	2,500	760	58	40	<25	92	<25	240	<25	ND
MW-11R	11/14/2012	29,000	2.6	330	1,400	9,700	660	<5.0	<5.0	<5.0	4,000	950	<5.0	36	<5.0	170	88	450	27	ND
MW-11R	4/17/2013	22,000	<5.0	6.5	580	3,970	280	<5.0	<5.0	<5.0	2,600	720	<5.0	25	<5.0	110	61	320	<5.0	ND
MW-11R	6/25/2014	15,000	<5.0	<5.0	260	1,130	280	<5.0	<5.0	2,100	580	45	<5.0	<5.0	72	<5.0	<5.0	220	18	ND
MW-11R	12/4/2014	21,000	<50	340	520	5,100	320	<50	<50	2,100	680	<100	<50	<50	71	<100	<50	170	<100	Bromoform 11
MW-11R	12/31/2014	23,000	<50	240	480	5,400	350	<50	<50	2,300	680	<100	<50	<50	71	<100	<50	190	<100	ND
MW-11R	1/22/2015	20,000	<50	330	730	5,100	350	<50	<50	2,200	600	<100	<50	<50	80	<100	<50	200	<100	ND
MW-11R	2/20/2015	25,000	<50	580	980	6,700	380	<50	<50	2,500	670	<100	<50	<50	87	<100	<50	200	<100	ND
MW-11R	6/12/2015	29,000	180	1,400	1,600	9,900	470	<50	<50	2,900	770	<100	<50	<50	120	<100	<50	330	<100	ND
MW-11R	8/10/2015	38,000	660	4,600	2,000	14,000	500	<50	<50	2,800	670	<100	<50	<50	100	<100	<50	310	<100	ND
MW-11R	11/11/2015	27,000	1,700	1,500	1,000	6,300	420	<50	<50	1,900	460	<100	<50	<50	83	<100	<50	220	<100	ND
MW-11R	2/3/2016	25,000	970	1,600	900	5,800	280	<50	<50	1,700	430	<100	<50	<50	57	<100	<50	150	<100	ND
MW-11R	5/17/2016	26,000	1,500	3,700	1,000	7,100	400	<50	<50	1,600	440	<100	<50	<50	71	<100	<50	180	<100	ND
MW-11R	8/16/2016	15,000	2,200	1,900	900	2,500	250	<50	<50	800	210	<100	<50	<50	60	<100	<50	100	<100	ND
MW-11R	12/2/2016	13,000	2,900	2,000	660	2,400	220	<50	<50	<50	710	190	<100	<50	<100	<50	<100	<100	<100	ND
MW-11R	3/3/2017	4,500	750	160	190	570	73	<2.5	<2.5	<2.5	280	83	<2.5	<2.5	<5.0	24	12	47	<2.5	ND
MW-11R	5/18/2017	15,000	1,000	890	420	2,100	170	<2.5	<2.5	<2.5	710	180	3.3	<2.5	<5.0	44	<2.5	96	9.4	MIBK - 38
MW-11R	9/14/2017	34,000	60	900	1,900	12,000	520	<50	<50	<50	2,500	530	<100	<100	<100	120	<100	310	<100	ND
MW-12	5/10/2012	2,700	600	4.7	160	207	26	<0.50	<0.50	<0.50	13	23.00	0.6	<0.50	<0.50	10	2.3	17	2.3	ND
MW-12	11/14/2012	1,600	470	2.1	140	63.4	26	<1.0	<1.0	<1.0	2.3	20.00	0.40 J	<1.0	<1.0	8.5	2.1	14	2.1	Tetrachloroethene 1.2
MW-12	4/17/2013	5,200	760	3.4	330	409	40	<2.0	1.2 J	<2.0	60	49.00	1.6 J	<2.0	1.8 J	22	3.7	36	7.4	ND
MW-12	6/25/2014	2,700	350	4.8	200	51	93	<1.0	<1.0	<1.0	11	28.0	4	<1.0	<1.0	17	3.9	23	3.2	ND
MW-12	12/4/2014	1,700	260	150	160	130	66	<0.50	<0.50	<0.50	12	21.0	<1.0	<1.0	<1.0	15	<5.0	20	2.3	ND
MW-12	12/31/2014	680	120	<2.5	74	10	34	<2.5	<2.5	<2.5	<2.5	6.7	<5.0	<5.0	<5.0	7.6	<5.0	11	<5.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-12	1/22/2015	950	110	<2.5	110	12	26	<2.5	<2.5	<2.5	<2.5	12.0	<5.0	<5.0	<5.0	9.4	<5.0	14	<5.0	ND
MW-12	2/19/2015	410	43	<0.50	30	4.0	7.7	1.4	1.0	<0.50	<0.50	3.4	<1.0	<1.0	<1.0	3.1	<1.0	4.2	<1.0	ND
MW-12	6/12/2015	470	17	54	19	68	5.2	4.5	2.0	<0.50	5.5	1.8	<1.0	<1.0	<1.0	1.5	<1.0	2.0	<1.0	ND
MW-12	8/10/2015	350	25	59	18	130	5.0	6.4	2.5	<0.50	13	2.9	<1.0	<1.0	<1.0	0.71	<1.0	1.0	<1.0	ND
MW-12	11/11/2015	270	8.7	21	8.3	58	4.2	4.0	2.8	<0.50	4.7	0.99	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	ND
MW-12	2/3/2016	1,100	130	26	9.0	74	4.1	3.2	2.8	<0.50	9.4	2.2	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	1.6	ND
MW-12	5/17/2016	690	120	44	12	99	7.9	2.5	2.0	<0.50	13	3.4	<1.0	<1.0	<1.0	1.9	<1.0	1.2	<1.0	ND
MW-12	8/16/2016	1,100	580	8.5	6.2	39	5.6	2.9	2.2	<0.50	3.7	1.5	<1.0	<1.0	<1.0	4.9	<1.0	1.8	1.3	ND
MW-12	12/2/2016	3,200	1900	<5.0	12	<10	22	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	17	<10	<10	<10	ND
MW-12	3/3/2017	1,300	1,100	<5.0	5.4	<10	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	ND
MW-12	5/18/2017	1,300	1,100	3.0	3.4	<7.5	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<5.0	<2.5	<2.5	<2.5	ND
MW-12	9/14/2017	1,400	820	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<5.0	<10	<10	<10	ND
MW-13	5/10/2012	50	<0.50	<0.50	<0.50	<1.5	<0.50	8.2	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-13	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	0.48J	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-13	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.1	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.6	1.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.3	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.5	2.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	8.2	2.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	7.2	2.9	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.0	2.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.9	1.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.0	1.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.8	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-13	5/17/2017	<50	<0.50	<0.50	<0.50	<1.5	<5.0	1.3	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-13	9/13/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.4	1.4	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-14	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-14	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-14	4/17/2013	60	<0.50	<0.50	2.9	15.7	1.0	<0.50	<0.50	<0.50	5.6	1.5	<0.50	<0.50	<0.50	0.27 J	<0.50	0.60	<0.50	ND
MW-14	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs	
		Analytical Results (µg/L)																			
MW-14	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	ND	
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-14	1/23/2015	4,700	2,300	91	160	560	<50	<25	<25	<25	200	<25	<50	<50	<50	<25	<50	<50	<50	ND	
MW-14	2/20/2015	12,000	6,200	230	76	1,500	190	<25	<25	<25	490	75	<50	<50	<50	46	<50	<50	<50	ND	
MW-14	6/12/2015	3,800	1,500	31	140	140	160	<25	<25	<25	68	38	<50	<50	<50	55	<50	<50	<50	ND	
MW-14	8/10/2015	5,900	2,700	130	600	430	210	<25	<25	<25	400	83	<50	<50	<50	47	<50	70	<50	ND	
MW-14	11/11/2015	3,300	920	25	280	360	140	<25	<25	<25	320	28	<50	<50	<50	<25	<50	<50	<50	ND	
MW-14	2/3/2016	4,600	930	220	270	780	110	<5.0	<5.0	<5.0	280	44	<10	<10	<10	19	<10	33	<10	ND	
MW-14	5/17/2016	37,000	3,800	7,000	1,800	7,700	490	<5.0	<5.0	<5.0	1,200	250	<10	<10	<10	81	27	150	11	ND	
MW-14	8/17/2016	22,000	2,200	2,900	1,400	6,300	420	<100	<100	<100	1,200	280	<200	<200	<200	<100	<200	<200	<200	ND	
MW-14	12/1/2016	2,100	220	54	93	290	220	<2.5	<2.5	<2.5	200	23	<5.0	<5.0	<5.0	33	14	32	7	ND	
MW-14	3/2/2017	6,700	340	720	240	1,600	110	<0.50	<0.50	<0.50	300	78	1.1	<0.50	<1.0	19	7.9	43	<0.50	2-Hexanone 6.4 Acetone 15 MIBK 11	
MW-14	5/17/2017	22,000	1,200	2,900	740	5,100	260	<2.5	<2.5	<2.5	760	170	<2.5	<2.5	<5.0	52	17	100	5.8	Acetone 53 MIBK 28	
MW-14	9/27/2017	23,000	880	2,000	990	4,900	360	<25	<25	<25	780	160	<25	<25	<25	68	<50	130	<25	ND	
MW-15	5/10/2012	1,800	1.6	1.4	130	38	14	4.4	2.2	<0.50	6.2	23.0	3	<0.50	<0.50	22	3.2	28	7.0	ND	
MW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-15	6/25/2014	140	<0.50	<0.50	<0.50	<0.50	0.36 J	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.26J	ND
MW-15	12/5/2014	260	1.6	34	10	57	3.7	1.2	<0.50	3.9	8	2.1	<1.0	<1.0	<1.0	<0.50	<1.0	1.1	<1.0	cis-1,2-Dichloroethene 1.5	
MW-15	12/31/2014	440	9.9	110	17	110	5.3	1.2	<0.50	<0.50	16	3.7	<1.0	<1.0	<1.0	0.64	<1.0	1.7	<1.0	ND	
MW-15	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.0	0.59	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.2	0.59	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.7	0.97	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.2	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.1	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.8	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.4	0.97	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	6.5	1.3	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.7	0.94	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
MW-15	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND	

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
MW-15	5/17/2017	<50	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-15	9/13/2017	<50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<1.0 UJ	<1.0 UJ	5.2 J	0.95 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<0.50 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	ND UJ
MW-16	5/10/2012	180	<0.50	<0.50	<0.50	<1.5	<0.5	2.3	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.5	<0.5	5.8	ND
MW-16	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.5	1.2	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	1.5	ND
MW-16	4/17/2013	2,900	3.3	1.1	230	11.3	59	0.35 J	<0.50	<0.50	3.4	26	<0.50	<0.50	<0.50	43	12	72	13	tert-Butylbenzene 0.42 J
MW-16	6/25/2014	100	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	ND
MW-16	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.61	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.56	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.1	0.74	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.94	0.92	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.9	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.8	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.2	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	0.75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	ND
MW-16	5/17/2017	<50	<0.50	<0.50	<0.50	<1.5	<5.0	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-16	9/13/2017	<50	2.4	1.6	<0.50	3.7	<1.0	3.5	1.2	<0.50	1.1	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EW-14	5/10/2012	33,000	4,200	3,300	2,200	10,100	280	<25	<25	1,200	300	<25	<25	<25	73	<25	<25	190	<25	ND
EW-14	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/25/2014	19,000	5,200	80	290	558	270	<10	<10	79	26	<10	<10	<10	53	11	<10	100	8.4J	ND
EW-14	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
EW-15	5/10/2012	34,000	6,300	6,500	1,200	5,600	160	<25	<25	690	180	<25	<25	<25	41	<25	<25	110	<25	ND
EW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/25/2014	35,000	8,000	850	630	1,700	460	<25	<25	420	110	<25	<25	<25	63	16J	<25	170	<25	ND
EW-15	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/10/2012	360	40	1.6	1.3	11.4	10	0.86	0.60	3.5	1.1	<0.50	<0.50	<0.50	9.3	<0.5	<0.50	5.8	1.6	ND
EW-16	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/25/2014	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
EW-16	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/10/2012	11,000	2,800	1,600	240	1,280	210	<25	<25	160	50	<25	<25	<25	52	<25	<27	140	<25	ND
EW-17	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	12,000	1,900	100	330	500	720	<5.0	<5.0	200	64	19	<5.0	<5.0	79	23	<5.0	210	13	ND
EW-17	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
EW-17	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/25/2014	21,000	140	23	1,100	3,960	480	<2.5	<2.5	730	240	23	<2.5	<2.5	140	58	<2.5	370	23	ND
EW-18	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/25/2014	12,000	620	160	460	1,770	480	<1.0	<1.0	360	110	9.7	<1.0	<1.0	120	40	<1.0	310	22	ND
EW-19	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/25/2014	3,900	400	8.1	24	79	190	<1.0	2.7	12	4.2	3.5	<1.0	<1.0	82	9.6	<1.0	120	14	tert-Butylbenzene 0.94J
EW-20	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/25/2014	60	0.46J	0.25J	0.31J	0.7	0.4J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	ND
EW-21	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/25/2014	50	0.59	0.41J	1.1	1.76	0.55	<0.50	<0.50	0.35J	0.29J	<0.50	0.77	<0.50	0.31J	0.46J	<0.50	1.2	0.27J	Bromoform 8.0
EW-22	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
INF	12/4/2014	270	<0.50	<0.50	<0.50	14	<1.0	<0.50	<0.50	<0.50	<0.50	6.8	<1.0	2.4	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	1/2/2015	810	58	27	5.4	68	9.4	1.0	1.2	<0.50	3.1	18	<1.0	2.3	<1.0	0.85	<1.0	<1.0	<1.0	ND
INF	1/22/2015	980	97	27	4.2	110	18	0.83	1.5	<0.50	1.5	39	<1.0	2.4	<1.0	0.75	2.5	<1.0	<1.0	ND
INF	2/19/2015	750	91	15	7.2	78	1.9	0.71	0.98	<0.50	1.5	32	<1.0	2.0	<1.0	0.56	1.9	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
INF	3/25/2015	750	20	3.9	1.6	87	3.7	<0.50	<0.50	<0.50	0.9	39	<1.0	2.3	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	4/23/2015	760	2.6	1.3	<0.50	100	5.5	<0.50	0.62	<0.50	<0.50	44	<1.0	2.0	<1.0	<0.50	2.2	<1.0	<1.0	ND
INF	5/21/2015	370	0.57	<0.50	<0.50	25	1.6	0.67	<0.50	<0.50	<0.50	17	<1.0	1.7	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	6/18/2015	630	4.0	2.7	<0.50	100	5.1	0.88	<0.50	<0.50	2.4	30	<1.0	2.1	<1.0	<0.50	1.6	<1.0	<1.0	ND
INF	7/16/2015	740	6.0	6.6	<0.50	170	9.1	0.84	<0.50	<0.50	9.3	39	<1.0	1.9	<1.0	<0.50	2	<1.0	<1.0	ND
INF	8/27/2015	750	8.0	4.8	<0.50	100	17	1.00	<0.50	<0.50	<0.50	43	<1.0	1.6	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	9/24/2015	950	20	8.9	<0.50	190	20	1.00	<0.50	<0.50	5.4	43	<1.0	1.7	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	10/22/2015	910	33	13	<0.50	250	27	1.3	0.65	<0.50	51	30	<1.0	1.4	<1.0	<0.50	1.5	<1.0	<1.0	ND
INF	11/19/2015	650	17	12	<0.50	160	15	0.89	<0.50	<0.50	20	22	<1.0	<1.0	<1.0	<0.50	1.2	<1.0	<1.0	ND
INF	12/17/2015	370	2.5	2.0	<0.50	61	2.2	0.76	0.58	<0.50	2.1	21	<1.0	1.3	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	1/28/2016	530	2.6	3.3	<0.50	86	2.9	0.63	<0.50	<0.50	4.4	20	<1.0	1.3	<1.0	<0.50	1	<1.0	<1.0	ND
INF	2/1/2017	530	2.6	3.3	<0.50	86	2.9	0.63	<0.50	<0.50	4.4	20	<1.0	1.3	<1.0	<0.50	1	<1.0	<1.0	ND
INF	2/25/2016	750	1.7	1.9	<0.50	95	2.8	0.84	0.57	<0.50	9.4	28	<1.0	1.4	<1.0	<0.50	1.2	<1.0	<1.0	ND
INF	3/24/2016	600	10	7.4	<0.50	140	9.1	0.74	0.53	<0.50	11	23	<1.0	1.2	<1.0	<0.50	1.2	<1.0	<1.0	ND
INF	4/22/2016	1,000	21	22	<0.50	230	16	0.61	<0.50	<0.50	14	44	<1.0	1.7	<1.0	<0.50	2.1	<1.0	<1.0	ND
INF	5/17/2016	390	<0.50	<0.50	<0.50	37	3.4	0.88	0.56	<0.50	0.63	18	<1.0	1.2	<1.0	<0.50	1.2	<1.0	<1.0	ND
INF	7/1/2016	360	9.9	3.9	<0.50	75	14	0.83	<0.50	<0.50	9.7	11	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	7/28/2016	320	19.0	8.8	<0.50	69	13	0.73	<0.50	<0.50	6.2	9.7	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	8/31/2016	330	30	11	<0.50	79	12	<0.50	<0.50	<0.50	5.5	7.2	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	9/30/2016	310	49	18	<0.50	93	16	0.87	<0.50	<0.50	7.6	7.2	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	10/26/2016	210	22	4.6	<0.50	43	5.1	<0.50	<0.50	<0.50	1.1	3.9	<1.0	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	ND
INF	12/1/2016	54	<0.50	<0.50	<0.50	1.8	1.0	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	1/4/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	2/1/2017	86	1.3	0.55	<0.50	13	4.4	<0.50	<0.50	<0.50	<0.50	2.9	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	3/3/2017	220	7.0	2.9	<0.50	28	<1.0	<0.50	<0.50	<0.50	1.3	3.1	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	3/29/2017	<50	<0.50	<0.50	<0.50	<1.27	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
INF	4/28/2017	210	4.8	1.9	<0.50	63	1.4	<0.50	<0.50	<0.50	2.0	9.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	5/23/2017	440	10	5.0	<0.50	40	<5.0	<0.50	<0.50	<0.50	<0.50	13	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
INF	6/21/2017	130	2.7	1.8	<0.50	17	1.1	0.57	<0.50	<0.50	<0.50	6.6	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	7/19/2017	160	16	7.4	<0.50	48	6.6	0.69	<0.50	<0.50	3.7	4.5	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
INF	8/30/2017	130	5.6	2.3	<0.50	34	2.0	<0.50	<0.50	<0.50	2.6	3.6	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (µg/L)																		
GAC	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	1/2/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC ¹	1/22/2015	990	89	24	3.3	<1.0	18	0.84	1.5	<0.50	1.4	40.0	1	2.4	<1.0	0.63	2.1	<1.0	<1.0	ND
GAC	2/16/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	3/25/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	4/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	5/21/2015	--	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAC	6/18/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	7/16/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	8/27/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	9/24/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	10/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	11/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	12/17/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	1/28/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	2/25/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	3/24/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	4/22/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	7/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	8/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	8/31/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	9/30/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	10/26/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	1/4/2017	60	<0.50	<0.50	<0.50	<1.0	1.9	0.67	<0.50	<0.50	1.7	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	2/1/2017	120	1.2	0.62	<0.50	<1.0	3.0	<0.50	<0.50	<0.50	2.8	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	ND
GAC	3/3/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
GAC	3/29/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
GAC	4/28/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
GAC	5/23/2017	<50	<0.50	<0.50	<0.50	<1.5	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
GAC	6/21/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
GAC	7/19/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
GAC	8/30/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs	
		Analytical Results (µg/L)																			
ESLs	5,000	3,000*	400	300	5,300	210	180	200,000	500,000	NE	NE	NE	24,000	60	NE	NE	NE	NE	NE	Various	
<p>Notes: Only constituents with a concentration above laboratory detection limits are presented. Total Petroleum Hydrocarbons as gasoline was analyzed using EPA Method 8015B. Volatile Organic Compounds were analyzed using EPA Method 8260B. µg/L = micrograms per liter ESLs = Regional Water Quality Control Board, Table GW-3, Odor Nuisance Levels, Non-Drinking Water, Updated February 2016 (Revision 3) BOLD indicates concentration exceeds the ESL. NE = ESL not established. < X = indicates not detected above laboratory detection limit of x (detection limits vary, see lab report). F1 - indicates matrix spike and/or matrix spike duplicate recovery is outside acceptance limits. J = Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration. ¹ - The GAC sample collected on 1/22/15 was mistakenly collected from the INF sample port and therefore these results do not represent breakthrough of COCs in the lead GAC vessel.</p>																					

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument				
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)
(mg/l)																
MW-2R	5/10/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/2/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4R	6/25/2014	4.90	1.4	0.91	0.50	<0.20	<0.10	9.70	4.90	<0.10	0.22	20.60	603.0	6.72	--	--
MW-4R	12/4/2014	25.00	7.8	1.10	730	<1.0	0.27	13	1.0	24	<0.20	21.99	1560.0	7.39	--	-71
MW-4R	12/30/2014	1.87	1.6	<1.0	80	<1.0	<0.020	22	1.4	0.47	<0.20	21.02	422.0	4.81	214.0	5
MW-4R	1/22/2015	1.60	1.6	<1.0	82	2.0	<0.020	27	1.6	<0.10	<0.20	20.10	544.0	4.72	32.4	83.0
MW-4R	2/19/2015	<0.20	1.7	<1.0	83	2.2	<0.020	32	<0.10	<0.10	<0.20	19.74	639.0	6.79	1.56	15.0
MW-4R	6/11/2015	<0.20	1.4	<1.0	64	2.0	0.024	32	<0.10	<0.10	1.5	20.25	639.0	6.90 ¹	0.28	196.0
MW-4R	8/11/2015	1.2	1.3	1.00	5.0	<1.0	0.061	33	0.43	0.77	4.5	21.72	570.0	6.58	2.64	-22.0
MW-4R	11/10/2015	50	2.0	4.0	6.1	<1.0	0.065	10	23	27	9.5	21.61	697.0	6.19	1,000.0	-58.0
MW-4R	2/2/2016	0.80	0.64	<1.0	26	<1.0	0.14	30	0.27	0.53	4.3	18.39	458.0	6.84	3.40	-15.0
MW-4R	5/16/2016	2.84	0.93	1.4	27	<1.0	0.028	21	1.90	0.94	3.9	19.91	468.0	6.84	8.24	-65.0
MW-4R	8/16/2016	6.7	--	--	1.2	<1.0	--	--	<0.10	7.2	5.0	20.82	521.0	6.80	5.34	-63.0
MW-4R	12/2/2016	5.6	--	--	4.4	<1.0	--	--	<0.10	6.0	4.4	20.33	502.0	7.41	0.00	-108.0
MW-4R	3/3/2017	1.1	--	--	75	<1.0	0.077	40	--	<0.10 HF	0.37	19.19	407.0	6.57	9.84	25.0
MW-4R	5/18/2017	4.4	--	--	47	<1.0	--	--	0.50	3.9 HF	0.69	19.66	476.0	6.96	2.08	4.0
MW-4R	9/14/2017	12.0	--	--	48	<1.0	--	--	--	0.99 HF	2.8	23.90	6 ²	6.62	2.70	269.8
MW-5R	6/25/2014	<0.50	<0.50	1.5	<0.20	<0.20	<0.10	8.40	<0.50	<0.10	0.17	20.00	434.4	10.62	--	-230.5
MW-5R	12/4/2014	15.6	4.1	1.1	210	5.7	0.51	16	15	0.6	0.24	21.23	1200.0	7.39	--	-118.0
MW-5R	12/30/2014	19.3	4.8	1.3	560	7.5	0.42	55	16	3.3	<0.20	19.82	1540.0	4.54	64.7	-111.0
MW-5R	1/22/2015	9.74	2.8	<1.0	310	32	0.28	50	9.5	0.24	<0.20	18.67	1260.0	4.58	28.9	-95.0
MW-5R	2/19/2015	11.14	2.8	<1.0	210	17	0.32	47	11	0.14	0.22	18.39	1140.0	6.94	28.2	-109.0

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-5R	6/11/2015	3.79	0.99	<1.0	1.5	18	0.15	35	2.8	0.99	0.28	20.40	460.0	--	49.9	-52.0	48.00
MW-5R	8/11/2015	3.8	0.88	<1.0	19	1.3	0.35	31	2.6	1.2	<0.20	22.91	739.0	6.92	50.1	-98.0	0.95
MW-5R	11/10/2015	3.4	0.8	<1.0	4.8	1.3	0.22	23	2.8	0.64	0.33	20.87	712.0	6.63	61.6	-72.0	4.81
MW-5R	2/2/2016	1.35	0.86	1.1	12	1.8	0.074	48	1.2	0.15	0.44	18.05	764.0	7.12	34.1	57.0	4.91
MW-5R	5/16/2016	1.40	0.66	1.9	12	1.4	0.21	26	0.88	0.52	1.10	21.05	794.0	7.24	17.8	-93.0	0.58
MW-5R	8/16/2016	2.0	--	--	<1.0	<1.0	--	--	1.3	0.71	0.45	21.77	728.0	7.08	10.3	-95.0	0.57
MW-5R	12/2/2016	2.2	--	--	<1.0	<1.0	--	--	0.5	1.70	0.43	20.50	728.0	7.17	0	-116.0	2.21
MW-5R	3/3/2017	<1.0	--	--	12	<1.0	0.37	34	--	0.23 HF	4.8	18.80	612.0	7.01	24.80	1.0	1.56
MW-5R	5/18/2017	1.5	--	--	<1.0	<1.0	--	--	<0.10	1.9 HF	1.0	21.47	637.0	7.22	5.14	-126.0	2.04
MW-5R	9/14/2017	1.9	--	--	<1.0	<1.0	--	--	<0.10	2.8 HF	1.2	23.60	5 ²	6.69	4.1	267.3	7.82
MW-6R	6/25/2014	2.9	1.3	0.71	<0.20	<0.20	<0.10	12	2.9	<0.10	0.45	20.20	530.7	6.87	--	-114.1	*
MW-6R	12/4/2014	2.84	3.1	<1.0	150	3.4	0.21	26	2.5	0.34	0.24	21.77	909.0	7.24	--	-66.0	*
MW-6R	12/30/2014	<0.20	1.2	3.7	250	56	4.1	33	<0.10	<0.10	7.2	20.32	971.0	4.80	34.2	47.0	6.99
MW-6R	1/22/2015	<0.20	2.7	1	200	32	0.93	74	<0.10	<0.10	2.1	19.70	929.0	4.55	0.4	93.0	5.19
MW-6R	2/19/2015	<0.20	2.2	1.3	270	24	1.4	69	<0.10	<0.10	4.6	19.42	1050.0	6.72	0.15	80.0	2.16
MW-6R	6/11/2015	0.73	0.93	1.5	350	2.2	1.6	44	0.73	<0.10	1.8	21.56	975.0	7.03 ¹	2.05	121.0	2.98
MW-6R	8/11/2015	0.91	1.1	1.1	240	1.4	1.7	43	0.91	<0.10	0.69	23.96	678.0	5.89	22.1	101.0	1.04
MW-6R	11/10/2015	<0.50	1.4	<1.0	270	2.8	0.88	39	<0.10	<0.10	0.43	22.77	823.0	5.65	14.6	124.0	0.58
MW-6R	2/2/2016	<0.20	1.6	4.4	540	<1.0	1.80	36	<0.10	<0.10	6.9	18.16	1180.0	5.31	2.91	195.0	3.44
MW-6R	5/16/2016	0.52	1.2	3.8	400	<1.0	11	27	0.52	<0.10	14	22.05	822.0	4.82	1.89	194.0	0.0
MW-6R	8/16/2016	<0.50	--	--	150	<1.0	--	--	<0.10	<0.10	1.6	23.36	485.0	5.72	3.96	113.0	0.83
MW-6R	12/2/2016	<1.0	--	--	99	<1.0	--	--	<0.10	<0.10	0.58	19.94	368.0	5.39	0.0	166.0	2.76
MW-6R	3/2/2017	<1.0	--	--	120	<1.0	5.1	23	--	<0.10 HF	7.3	18.83	522.0	5.96	36.1	180.0	4.29
MW-6R	5/17/2017	<1.0	--	--	760 J	1.0	--	--	<0.10	<0.10 HF	10	20.78	1780.0	5.82	1.1	232.0	2.28
MW-6R	9/13/2017	<1.0	--	--	330 H	<1.0	--	--	--	0.28 HF	2.5	24.30	4 ²	6.91	7.1	283.2	8.20
MW-7R	6/25/2014	35	3.4	2	<0.20	<0.20	<0.10	<2.0	35	<0.10	0.39	19.60	774.0	6.61	--	-87.2	*
MW-7R	12/4/2014	29	3	<1.0	28	<1.0	0.16	<0.1	<0.10	29	0.5	20.62	695.0	7.13	--	-78.0	*
MW-7R	12/30/2014	15.2	3.3	<1.0	250	<1.0	0.13	28	3.2	12	<0.20	19.56	777.0	5.00	20.9	-41.0	6.65
MW-7R	1/22/2015	18.56	3.9	<1.0	330	10	0.038	31	18	0.56	0.34	18.69	1050.0	4.62	11.1	-37.0	4.82
MW-7R	2/19/2015	17	3.5	<1.0	330	10	0.1	27	14	3	<0.20	18.53	986.0	6.54	21.1	-51.0	1.29
MW-7R	6/11/2015	19.9	2.9	1.7	350	2.7	<0.020	31	15	4.9	1.0	22.96	943.0	6.14 ¹	11.9	-24.0	1.89
MW-7R	8/11/2015	8.9	2.1	1.7	270	3	0.083	25	4.5	4.4	1.2	22.57	850.0	6.01	8.07	-20.0	0.95

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-7R	11/10/2015	24	1.8	2.1	190	3.8	0.025	24	24	0.35	1.5	22.08	716.0	5.87	49.5	1.0	0.34
MW-7R	2/2/2016	1.9	2.0	1.8	200	13	<0.020	34	1.9	<0.10	1.2	17.96	737.0	6.37	42.9	170.0	3.27
MW-7R	5/16/2016	3.22	2.7	2.5	340	24	<0.020	23	3.1	0.12	1.3	20.41	947.0	6.54	25.5	-17.0	0.0
MW-7R	8/16/2016	4.6	--	--	33	4.6	--	--	3.5	1.1	0.94	21.97	499.0	6.60	58.4	-38.0	0.07
MW-7R	12/2/2016	3.9	--	--	1	<1.0	--	--	1.5	2.4	0.86	20.67	484.0	6.81	9.18	-71.0	1.51
MW-7R	3/3/2017	2.8	--	--	8.6	5.7	0.58	20	--	0.27 HF	2.5	18.16	635.0	6.84	34.20	-72.0	2.19
MW-7R	5/18/2017	2.9	--	--	56.0	15.0	--	--	2.8	0.10 HF	0.84	20.75	763.0	6.81	9.61	-38.0	1.54
MW-7R	9/14/2017	3.6	--	--	49	11	--	--	3.1	0.52 HF	1.9	26.10	4 ²	6.82	18.6	253.3	7.50
MW-8	6/25/2014	6.1	1.1	0.71	<0.20	<0.20	<0.10	4.1	6.1	<0.10	0.34	22.60	444.9	6.77	--	-112.0	*
MW-8	12/5/2014	5.6	1	<1.0	<1.0	<1.0	0.83	1.7	0.7	4.9	0.24	22.73	321.0	7.20	--	-96.0	*
MW-8	12/30/2014	8.3	0.89	<1.0	<1.0	<1.0	0.2	12	3.1	5.2	<0.20	19.67	328.0	4.98	334.0	-40.0	6.2
MW-8	1/22/2015	7.8	0.83	<1.0	<1.0	<1.0	0.18	12	3	4.8	<0.20	19.86	400.0	4.68	259.0	-49.0	4.6
MW-8	2/19/2015	14	1	1.5	2.1	<1.0	0.14	13	8	6	0.26	19.85	401.0	6.97	366.0	-66.0	4.53
MW-8	6/11/2015	21	1.5	1.7	2.4	<1.0	0.032	12	9	12	0.28	0.93	240.0	6.65 ¹	249.0	-88.0	2.35
MW-8	8/11/2015	29	1.7	3	<1.0	<1.0	0.25	1.2	10	19	0.28	18.82	313.0	8.18	477.0	-150.0	5.93
MW-8	11/10/2015	81	1.8	6.5	<1.0	<1.0	0.044	2.7	63	18	0.3	21.90	462.0	6.56	805.0	-96.0	7.06
MW-8	2/2/2016	39	1.6	3.5	<1.0	<1.0	<0.020	8.3	28	11	0.33	18.01	402.0	6.93	453.0	-117.0	5.99
MW-8	5/16/2016	21	1.3	1.4	<1.0	<1.0	<0.020	9.4	1.0	20	0.35	24.08	261.0	7.00	1000.0	-151.0	2.01
MW-8	8/16/2016	49	--	--	<1.0	<1.0	--	--	31.0	18	0.20	24.81	264.0	6.91	990.0	-98.0	0.00
MW-8	12/2/2016	22	--	--	<1.0	<1.0	--	--	12.0	10	<0.20	20.56	353.0	6.76	127.0	-33.0	9.06
MW-8	3/3/2017	15	--	--	2.6	<1.0	0.032	20	--	1.0 HF	<0.20	18.59	383.0	6.86	166.0	46	3.60
MW-8	5/18/2017	12	--	--	10.0	<1.0	--	--	11	0.92 HF	<0.20	20.64	393.0	7.04	52.3	59	3.70
MW-8	9/13/2017	14	--	--	3.6	<1.0	--	--	10	3.9 HF	<0.20	25.20	3 ²	6.82	9.6	290.2	8.00
MW-9	6/26/2014	44	10	4	0.5	<0.20	<0.10	28	44	<0.10	0.04	19.60	495.5	6.71	--	142.3	*
MW-9	12/5/2014	51	9.7	4.6	4.1	<1.0	0.075	38	51	<0.10	<0.20	19.91	456.0	6.94	--	43.0	*
MW-9	12/30/2014	5.20	0.95	1.1	3.2	<1.0	0.06	35	5.2	<0.10	<0.20	18.66	401.0	4.93	557.0	151.0	6.82
MW-9	1/22/2015	9.40	1.3	1	3	<1.0	0.057	42	9.4	<0.10	<0.20	18.40	478.0	4.67	441.0	132.0	5.55
MW-9	2/19/2015	66	5.3	5.7	4.1	<1.0	0.088	47	66	<0.10	<0.20	18.67	490.0	7.11	816.0	55.0	4.12
MW-9	6/11/2015	45.16	4.7	3.6	12	<1.0	<0.020	33	45	0.16	<0.20	25.29	162.0	6.92 ¹	814.0	84.0	5.54
MW-9	8/10/2015	38	4.1	3.2	3.4	<1.0	0.063	52	37	1.2	<0.20	22.15	365.0	7.23	611.0	111.0	3.89
MW-9	11/10/2015	23	4	1.8	<1.0	<1.0	0.064	87	22	0.93	<0.20	22.14	138.0	6.82	956.0	71.0	4.75
MW-9	2/2/2016	22	1.8	2.7	18	<1.0	0.038	63	22	<0.10	<0.20	18.23	364.0	7.08	899.0	135.0	7.37

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-9	5/16/2016	8.22	1.4	1.1	25	<1.0	<0.020	36	8.1	0.12	0.20	19.98	402.0	7.19	1000.0	75.0	2.05
MW-9	8/16/2016	66.00	--	--	16	<1.0	--	--	65.0	0.86	<0.20	21.89	387.0	7.15	788.0	57.0	0.00
MW-9	12/1/2016	25.00	--	--	180	<100	--	--	25.0	<0.10 HF	<0.20	20.06	468.0	6.65	157.0	134.0	4.00
MW-9	3/3/2017	2.6	--	--	71	1.6 H	0.033	40	--	<0.10 HF	<0.20	16.08	462.0	7.30	192.0	123.0	5.48
MW-9	5/17/2017	8.1	--	--	57	<1.0	--	--	8.1	<0.10 HF	<0.20	18.68	454.0	7.17	53.0	220.0	3.74
MW-9	9/13/2017	21	--	--	92	<1.0	--	--	21	0.10 HF	<0.20	21.80	3 ²	6.64	5.4	331.8	8.46
MW-10	6/26/2014	42	0.65	4.5	2.1	<0.20	0.4	11	42	<0.10	<0.03	20.30	306.7	6.24	--	131.3	*
MW-10	12/5/2014	<0.20	<0.020	<1.0	10	<1.0	0.021	14	<0.10	<0.10	<0.20	20.80	271.0	7.35	--	73.0	*
MW-10	12/30/2014	3.7	0.2	<1.0	12	<1.0	<0.020	13	3.7	<0.10	<0.20	18.90	292.0	4.73	147.0	127.0	8.73
MW-10	1/22/2015	5.3	0.18	<1.0	12	<1.0	0.032	13	5.3	<0.10	<0.20	18.88	306.0	4.74	414.0	192.0	5.11
MW-10	2/19/2015	35	0.47	3.5	12	<1.0	0.05	13	35	<0.10	<0.20	18.59	303.0	6.80	936.0	133.0	4.72
MW-10	6/11/2015	67.11	0.82	5.4	11	<1.0	<0.020	19	67	0.11	<0.20	21.99	0.0	6.60 ¹	34.1	115.0	6.23
MW-10	8/10/2015	40	0.59	4.3	7.6	<1.0	0.035	28	40	<0.10	<0.20	21.72	272.0	6.79	1000.0	129.0	3.92
MW-10	11/10/2015	43	0.67	4.5	25	<1.0	0.024	32	43	<0.10	<0.20	21.56	242.0	6.77	0.0	133.0	6.00
MW-10	2/2/2016	21	0.28	2.6	27	<1.0	<0.020	31	21	<0.10	<0.20	17.41	234.0	6.99	622.0	131.0	6.08
MW-10	5/16/2016	4.2	0.21	1.3	220	<1.0	0.049	27	4.2	<0.10	0.20	21.16	512.0	7.00	809.0	99.0	2.17
MW-10	8/16/2016	40.0	--	--	230	<1.0	--	--	40.0	0.11	<0.20	23.24	623.0	6.89	0.0	63.0	0.00
MW-10	12/1/2016	15.0	--	--	190	<1.0	--	--	15.0	<0.10 HF	<0.20	21.44	625.0	6.65	149.0	133.0	4.99
MW-10	3/2/2017	6.9	--	--	9.2	<1.0	<0.020	13	--	<0.10 HF	<0.020	17.76	184.0	6.68	163.0	163.0	8.53
MW-10	5/17/2017	6.4	--	--	4.5	<1.0	--	--	6.4	<0.10 HF	<0.20	19.35	624.0	6.77	54.4	277.0	4.28
MW-10	9/13/2017	17	--	--	5.6	<1.0	--	--	17	<0.10 HF	<0.20	23.0	4 ²	6.74	5.3	304.0	8.26
MW-11R	6/26/2014	120	2	10	0.66	<0.20	<0.10	<2.0	120	<0.10	0.03	18.70	153.3	7.01	--	-80.3	*
MW-11R	12/4/2014	0.91	0.78	<1.0	1.4	<1.0	0.14	4.2	<0.1	0.91	<0.20	19.78	185.0	7.14	--	-46.0	*
MW-11R	12/31/2014	13	1.6	1.3	2.4	<1.0	0.089	6.4	4.4	8.6	<0.20	17.90	288.0	5.27	1000.0	-32.0	9.39
MW-11R	1/23/2015	20	1.3	1.3	<1.0	<1.0	0.027	2.8	8	12	<0.20	16.10	223.0	5.78	0.0	162.0	10.15
MW-11R	2/20/2015	3.1	0.55	<1.0	<1.0	<1.0	0.11	2	2	1.1	<0.20	17.63	161.0	6.98	131.0	-35.0	3.18
MW-11R	6/12/2015	1.4	0.81	<1.0	<1.0	<1.0	0.15	1.2	<0.10	1.4	<0.20	20.51	186.0	6.94 ¹	2.46	-14.0	1.83
MW-11R	8/10/2015	2.2	1.5	<1.0	1.3	<1.0	0.12	1.1	<0.10	2.2	<0.20	20.17	332.0	5.94	7.25	-45.0	1.53
MW-11R	11/11/2015	2.9	1.8	<1.0	<1.0	<1.0	0.11	6.6	0.40	2.5	<0.20	20.28	341.0	6.69	45.3	-61.0	4.08
MW-11R	2/3/2016	4.1	1.6	<1.0	2.1	<1.0	<0.020	5.7	1.3	2.8	0.20	17.62	293.0	6.75	7.88	-58.0	3.67
MW-11R	5/17/2016	3.9	1.5	<1.0	2.1	<1.0	<0.020	6.6	<0.10	3.9	0.22	19.18	285.0	6.87	9.86	-85.0	1.65
MW-11R	8/17/2016	4.3	--	--	17	<1.0	--	--	0.40	3.9	<0.20	21.16	430.0	6.62	9.88	-42.0	0.0

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-11R	12/2/2016	9.5	--	--	14	<1.0	--	--	<0.10	11	<0.20	19.06	642.0	6.73	0	-86.0	2.68
MW-11R	3/3/2017	2.5	--	--	19	<1.0	<0.020	22	--	2.2 HF	<0.20	18.01	507.0	6.65	31.8	14.0	2.63
MW-11R	5/18/2017	8.5	--	--	8	1.5	--	--	<0.10	10 HF	<0.20	20.56	516.0	6.78	2.85	-90.0	2.20
MW-11R	9/14/2017	13	--	--	10	<1.0	--	--	<0.10	14 HF	<0.20	22.6	5 ²	6.64	1.9	272.7	8.01
MW-12	6/26/2014	15	1.7	2.2	2	<0.20	<0.10	2.2	15	<0.10	<0.03	19.20	544.4	6.39	--	5.4	*
MW-12	12/4/2014	0.69	1	<1.0	29	<1.0	<0.020	10	0.32	0.37	<0.20	20.13	393.0	7.05	--	26.0	*
MW-12	12/31/2014	6.21	1.5	<1.0	13	<1.0	0.028	8.6	5.7	0.51	<0.20	18.71	362.0	5.32	136.0	91.0	8.40
MW-12	1/23/2015	7.3	1.5	<1.0	12	<1.0	<0.020	9.3	6.2	1.1	<0.20	17.75	425.0	4.72	789.0	19.0	6.54
MW-12	2/19/2015	96.91	3.1	8.0	2.3	<1.0	0.034	7.6	96	0.91	<0.20	19.07	422.0	6.75	567.0	8.0	4.56
MW-12	6/12/2015	1.1	1.3	<1.0	2.2	<1.0	0.035	9.3	<0.10	1.1	2.20	19.94	522.0	6.75 ¹	271.0	27.0	3.93
MW-12	8/10/2015	0.85	1.1	<1.0	<1.0	<1.0	0.035	15	<0.10	0.78	<0.20	20.70	536.0	6.03	7.09	-8.0	3.41
MW-12	11/11/2015	1.0	1.4	<1.0	<1.0	<1.0	0.033	9.8	<0.10	0.91	<0.20	20.35	526.0	6.67	9.82	-7.0	0.43
MW-12	2/3/2016	1.2	1.4	<1.0	<1.0	<1.0	<0.020	7.4	0.28	0.92	<0.20	18.59	523.0	6.68	0.93	3.0	3.41
MW-12	5/17/2016	0.98	1.4	<1.0	<1.0	<1.0	<0.020	12.0	<0.10	0.98	<0.20	20.47	512.0	6.71	0.0	-20.0	0.0
MW-12	8/17/2016	0.87	--	--	<1.0	<1.0	--	--	<0.10	1.10	<0.20	20.64	564.0	6.54	0.0	5.0	0.32
MW-12	12/2/2016	1.20	--	--	<1.0	<1.0	--	--	0.10	1.10	<0.20	19.83	557.0	6.67	0.0	-27.0	2.34
MW-12	3/3/2017	2.1	--	--	<1.0	<1.0	<0.020	2.4	--	2.1 HF	<0.20	17.79	513.0	6.56	3.81	-12.0	2.57
MW-12	5/18/2017	79.0	--	--	<1.0	<1.0	--	--	76.00	3.2 HF	<0.20	20.40	518.0	6.76	0.52	-39.0	2.21
MW-12	9/14/2017	1.8	--	--	<1.0	<1.0	--	--	<0.10	2.1 HF	<0.20	23.3	4 ²	6.49	7.1	293.7	7.92
MW-13	6/26/2014	3.8	<0.5	1.2	1.2	<0.20	0.14	10	3.8	<0.10	0.04	18.50	242.2	6.62	--	124.4	*
MW-13	12/4/2014	170.19	2.7	11	17	<1.0	0.19	13	170	0.19	0.27	19.85	308.0	6.80	--	55.0	*
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	23	0.71	2.3	6.8	<1.0	0.081	12	23	<0.10	<0.20	17.66	291.0	6.75	808.0	149.0	9.02
MW-13	2/20/2015	29	1.2	3.1	4.4	<1.0	0.082	12	29	<0.10	<0.20	18.72	366.0	6.84	475.0	181.0	5.41
MW-13	6/12/2015	53.14	1.8	7.4	<1.0	5.6	<0.020	12	53	0.14	<0.20	21.73	5.0	--	17.5	86.0	6.04
MW-13	8/10/2015	29	0.95	3.7	38	1.2	0.086	16	29	<0.10	<0.20	20.25	643.0	6.51	0.0	171.0	7.91
MW-13	11/11/2015	2.7	1.2	21	130	6.0	0.086	24	2.7	<0.10	<0.20	16.61	859.0	6.76	890.0	114.0	9.93
MW-13	2/3/2016	3.3	0.66	6.1	170	4.8	0.040	26	2.0	1.3	<0.20	18.21	904.0	6.81	0.0	159.0	5.55
MW-13	5/17/2016	20	0.59	4.5	190	3.6	0.041	25	20.0	<0.10	<0.20	18.09	794.0	6.93	0.0	68.0	3.17
MW-13	8/17/2016	78	--	--	210	1.9	--	--	78.0	0.3	<0.20	23.74	505.0	6.92	325.0	68.0	0.00
MW-13	12/1/2016	6.0	--	--	240	<1.0	--	--	6.0	<0.10 HF	<0.20	18.83	911.0	6.74	--	97.0	3.92
MW-13	3/2/2017	11	--	--	200	<1.0	0.037	21	--	<0.10 HF	<0.20	18.57	871.0	6.82	146.0	118.0	3.68

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-13	5/17/2017	9	--	--	200	1.8	--	--	9.1	<0.10 HF	<0.20	18.94	752.0	6.54	59.0	236.0	4.80
MW-13	9/13/2017	6.4	--	--	190	<1.0	--	--	6.4	<0.10 HF	<0.20	23.10	3 ²	6.16	10.0	339.3	8.15
MW-14	6/26/2014	28	1.2	2.3	7.7	<0.20	<0.10	15	28	<0.10	0.06	17.70	251.6	6.69	--	142.2	*
MW-14	12/4/2014	26.19	1.1	1.8	49	<1.0	0.046	20	26	0.19	<0.20	19.54	187.0	6.70	--	44.5	*
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	29.14	1	2.2	6.2	<1.0	<0.020	13	29	0.14	<0.20	17.58	385.0	6.86	503.0	187.0	10.3
MW-14	2/20/2015	23.19	1.9	1.9	21	<1.0	<0.020	12	23	0.19	<0.20	17.78	617.0	6.82	246.0	191.0	5.99
MW-14	6/12/2015	34.1	1.8	2.7	<1.0	<1.0	<0.020	11	28	6.1	<0.20	25.76	0.00	--	9.53	8.0	6.18
MW-14	8/10/2015	27.3	1.7	2.5	<1.0	<1.0	0.031	11	21	6.3	<0.20	19.15	1.0	7.50	10.7	28.0	8.84
MW-14	11/11/2015	7.0	1.6	<1.0	<1.0	<1.0	0.035	9.7	3.6	3.4	<0.20	16.33	0.0	7.83	23.3	-32.0	9.70
MW-14	2/3/2016	28.4	1.3	2.1	8.1	<1.0	<0.020	9.3	26	2.4	<0.20	16.59	17.0	7.82	766.0	92.0	8.79
MW-14	5/17/2016	11.0	1.5	1.3	4.5	<1.0	<0.020	5.6	4.8	6.2	<0.20	17.50	0.0	7.62	12.5	-93.0	5.42
MW-14	8/17/2016	28.0	--	--	<1.0	<1.0	--	--	19.0	8.9	<0.20	21.45	749.0	7.27	513	-90.0	0.00
MW-14	12/1/2016	7.9	--	--	3.3	<1.0	--	--	6.0	1.9 HF	<0.20	17.72	747.0	6.99	--	-109.0	7.13
MW-14	3/3/2017	12	--	--	15	<1.0	<0.020	14	--	0.32 HF	<0.20	17.66	316.0	7.02	368	62.0	3.86
MW-14	5/17/2017	15	--	--	46	1.7	--	--	13.0	2.0 HF	<0.20	18.21	714.0	7.28	133	-65.0	2.78
MW-14	9/13/2017	8.4	--	--	<1.0	<1.0	--	--	4.7	3.7 HF	<0.20	21.60	5 ²	6.69	66.4	276.1	8.43
MW-15	6/26/2014	54	0.77	5.2	<0.20	<0.20	<0.10	3.9	54	<0.10	<0.03	19.00	260.1	6.87	--	-76.1	*
MW-15	12/5/2014	1.3	0.36	<1.0	<1.0	<1.0	0.095	5.5	<0.10	1.3	<0.20	19.95	250.0	7.32	--	-59.0	*
MW-15	12/31/2014	0.78	0.22	<1.0	<1.0	<1.0	0.082	5.3	<0.10	0.78	<0.20	19.93	208.0	5.38	24.2	-41.0	7.82
MW-15	1/23/2015	29.8	0.58	3.3	<1.0	<1.0	0.035	16	26	3.8	<0.20	19.89	329.0	7.09	932.0	-3.0	7.65
MW-15	2/20/2015	28.6	0.6	3.3	<1.0	<1.0	0.029	23	25	3.6	<0.20	19.81	425.0	6.99	551.0	8.0	5.02
MW-15	6/12/2015	55.4	0.8	5	4.3	4.3	<0.020	42	54	1.4	<0.20	20.88	299.0	--	575.0	119.0	3.12
MW-15	8/10/2015	46	0.72	5.3	13	1.6	0.036	50	45	0.77	<0.20	21.39	600.0	6.69	0.0	100.0	5.62
MW-15	11/11/2015	10	0.40	1.3	25	1.5	0.059	57	9.5	0.48	<0.20	20.47	638.0	6.97	1000.0	72.0	5.91
MW-15	2/3/2016	42.26	0.74	4.6	20	<1.0	<0.020	60	42.0	0.26	<0.20	18.42	665.0	7.18	721.0	142.0	8.84
MW-15	5/17/2016	31	0.98	3.5	23	<1.0	<0.020	62	31.0	<0.10	<0.20	20.00	634.0	7.21	490.0	47.0	4.44
MW-15	8/17/2016	40	--	--	32	<1.0	--	--	40.0	0.41	<0.20	19.09	715.0	7.15	808.0	68.0	1.50
MW-15	12/1/2016	24	--	--	38	<1.0	--	--	24.0	<0.10 HF	<0.20	19.67	636.0	7.27	114.0	134.0	4.38
MW-15	3/2/2017	160	--	--	3.9	<1.0	0.030	94	--	0.40 HF	<0.20	18.73	454.0	7.02	767.0	172.0	3.82
MW-15	5/17/2017	8.6	--	--	3.8	<1.0	--	--	8.6	<0.10 HF	<0.20	19.33	434.0	7.82	24.6	185.0	7.05
MW-15	9/13/2017	54	--	--	31	<1.0	--	--	54	0.35 HF	<0.20	21.90	3 ²	6.73	27.1	316.1	8.45

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-16	6/26/2014	<0.5	<0.5	<0.5	<0.20	<0.20	<0.10	3.1	<0.5	<0.10	<0.03	18.30	401.5	6.68	--	-70.7	*
MW-16	12/5/2014	2.64	0.3	<1.0	<1.0	<1.0	0.037	6.5	2.5	0.14	<0.20	19.01	330.0	7.30	--	9.0	*
MW-16	12/31/2014	2.15	0.29	<1.0	<1.0	<1.0	0.038	8.1	1.6	0.55	<0.20	16.51	272.0	5.06	309	58.0	8.25
MW-16	1/23/2015	5.49	0.27	<1.0	<1.0	<1.0	<0.020	9.5	5.3	0.19	<0.20	18.11	300.0	6.77	202	133.0	10.10
MW-16	2/20/2015	4.86	0.31	<1.0	<1.0	<1.0	<0.020	10	4.7	0.16	<0.20	17.77	337.0	6.82	88.9	102.0	3.66
MW-16	6/12/2015	3.44	0.29	<1.0	<1.0	<1.0	0.040	10	3.3	0.14	<0.20	19.37	312.0	6.84 ¹	90.6	130.0	2.95
MW-16	8/10/2015	2.5	0.21	<1.0	1.40	<1.0	0.040	9.7	2.5	<0.10	<0.20	19.72	287.0	5.98	68.8	149.0	5.02
MW-16	11/11/2015	0.74	0.22	<1.0	2.0	<1.0	0.039	8.0	0.74	<0.10	<0.20	18.10	276.0	6.77	142	91.0	6.11
MW-16	2/3/2016	4.9	0.33	<1.0	7.3	<1.0	0.028	6.9	4.9	<0.10	<0.20	17.86	312.0	6.79	81.5	159.0	8.67
MW-16	5/17/2016	6.0	0.56	1.1	65.0	<1.0	0.026	5.7	6.0	<0.10	<0.20	19.06	448.0	6.72	84.4	82.0	4.41
MW-16	8/17/2016	7.2	--	--	88.0	1.80	--	--	7.0	0.16	<0.20	18.68	534.0	6.58	61.5	96.0	1.57
MW-16	12/1/2016	<1.0	--	--	130.0	<100	--	--	<0.10	<0.10 HF	<0.20	18.61	644.0	6.65	14.2	147.0	3.52
MW-16	3/2/2017	<1.0	--	--	80	<10	0.023	9.5	--	<0.10 HF	<0.20	17.83	574.0	6.55	10.1	186.0	3.33
MW-16	5/17/2017	<1.0	--	--	77	1.6	--	--	<0.10	<0.10 HF	<0.20	18.52	541.0	6.87	6.32	-12.0	5.70
MW-16	9/13/2017	<1.0	--	--	100	1.9	--	--	<0.10	<0.10 HF	<0.20	21.20	3 ²	6.66	88.5	281.1	8.65
EW-14	6/25/2014	6.2	1.0	3.2	<0.20	.	<0.10	4.0	6.2	<0.10	0.54	19.3	1,258.0	6.98	--	-122.8	*
EW-14	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/25/2014	21	2.9	1.6	<0.20	<0.20	<0.10	<2.0	21	<0.10	<0.15	19.3	870.0	6.81	--	-96.1	*
EW-15	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
EW-15	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/26/2014	3.5	1.4	0.77	<.020	<.020	15	19	3.5	<.010	<.015	20.1	916.0	6.80	--	-89.3	*
EW-16	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	31	1.6	0.75	<.020	<.020	<.010	3.4	31	<.010	0.34	19.5	1,494.0	7.09	--	-119.0	*
EW-17	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/25/2014	73	2.9	9.5	<.020	<.020	<.010	<.2.0	73	<.010	0.3	21.2	870.0	6.82	--	-101.4	*
EW-18	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
EW-18	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/25/2014	43	3.3	7.1	<0.20	<0.20	0.17	<2.0	43	<0.10	0.5	20.5	926.0	6.66	--	-91.1	*
EW-19	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/25/2014	110	2.6	9.1	0.22	<0.20	0.14	7	110	<0.10	0.36	21.0	750.0	6.85	--	-107.2	*
EW-20	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

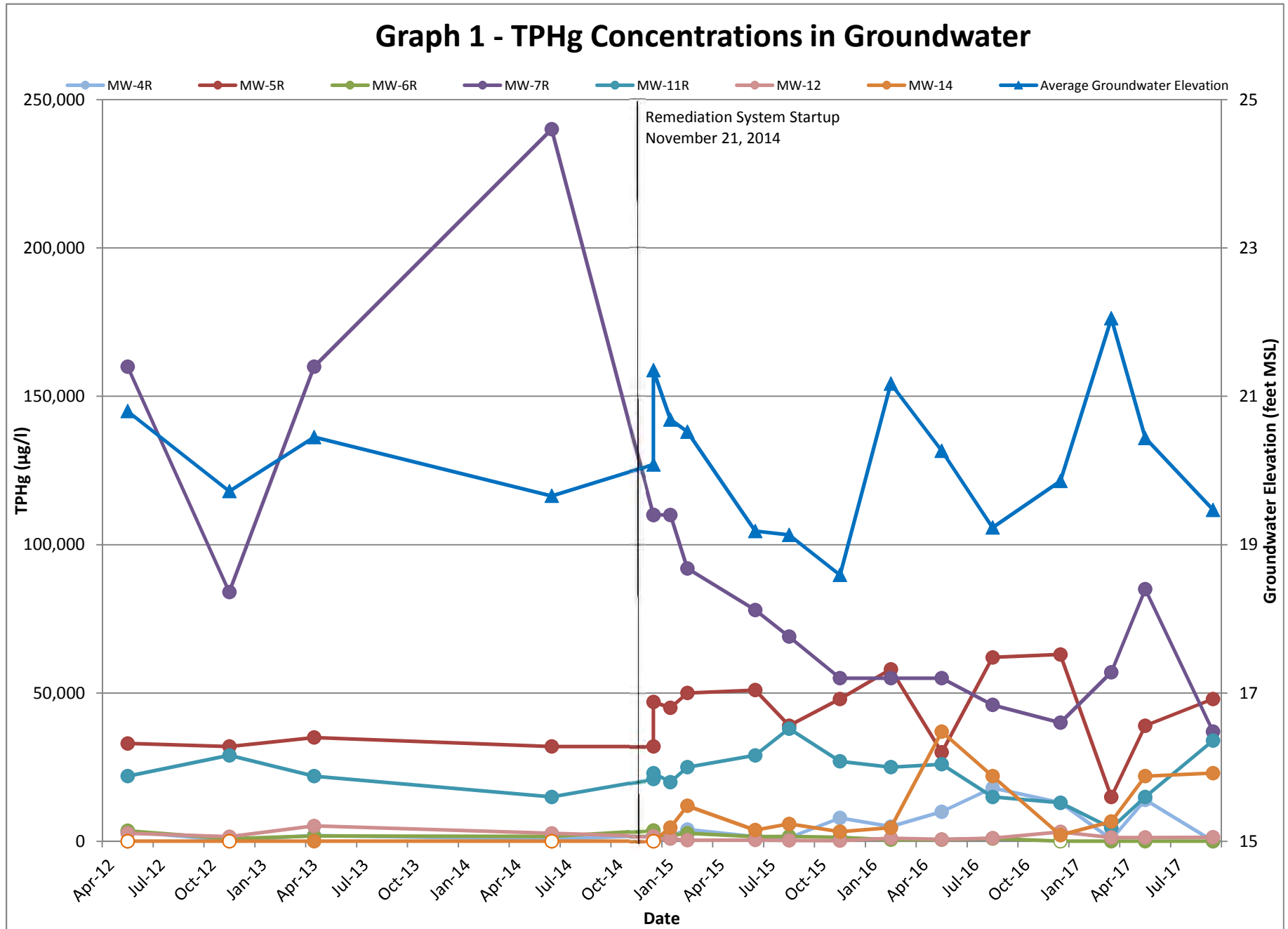
TABLE 5 – BIOATTENUATION MONITORING

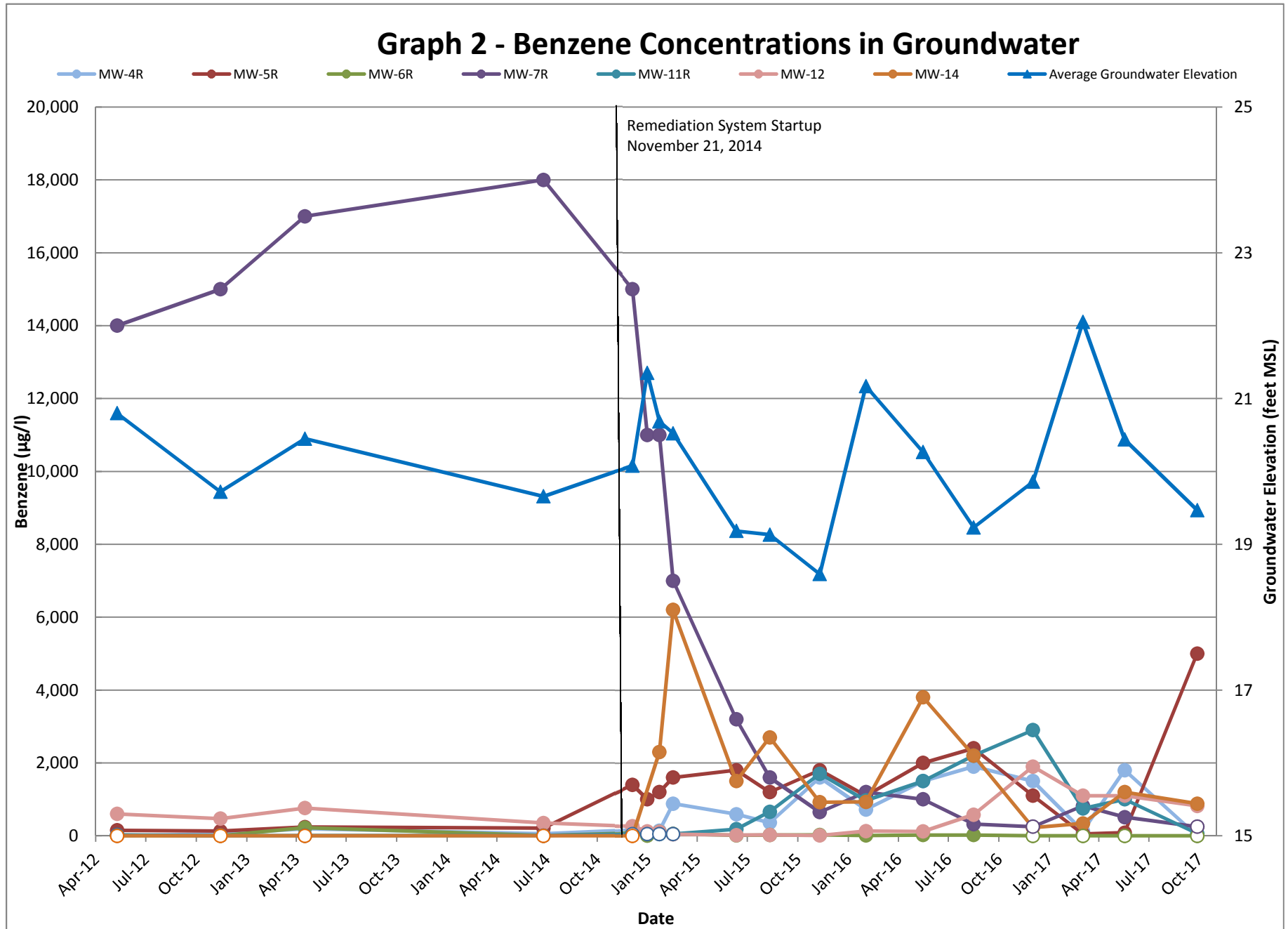
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		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
EW-21	6/26/2014	1.6	<0.5	6.1	6.1	<0.20	<0.10	15	1.60	<0.10	<0.03	20.0	422.2	6.90	--	10.0	*
EW-21	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/26/2014	23	<0.5	3.6	0.47	<0.20	<0.10	8.6	23	<0.10	0.03	18.8	173.7	6.63	--	141.3	*
EW-22	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	#####	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument				
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)
EW-22	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

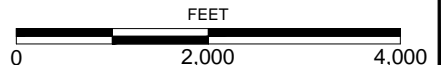
Notes:
 ID – identification
 EPA – United States Environmental Protection Agency
 HF - field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
 mg/l – milligrams per liter
 SM – Standard Method
 °C - degrees centigrade
 µs/cm – microsiemens
 NTU - nephelometric turbidity units
 ORP – oxidation-reduction potential
 mV – millivolts
 % - percent
 <X - not detected at or above the laboratory reporting limit of X
 1 - pH readings taken on 6/22/15 and not on sample date.
 -- – Not analyzed or not applicable
 *- Dissolved oxygen content was measured mistakenly measured in percent (%) during the 6/25/14 and 6/26/14 sampling event as well as the 12/4/14 and 12/5/14 sampling event. These results are hidden to avoid confusion. Samples taken on and after 12/30/2014 are measured in mg/L
 2 - Conductivity parameters are outside the historical ranges







- 1 FERDINELL WK
- 2 YORKSHIRE PL
- 3 WHITEHALL PL



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. | REFERENCE: THOMAS GUIDE, 2008

FIGURE 1

SITE LOCATION

2301 SANTA CLARA AVENUE
 ALAMEDA, CALIFORNIA
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LEGEND

 SITE BOUNDARY

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. | REFERENCE: GOOGLE EARTH, 2017

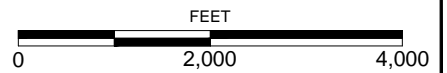
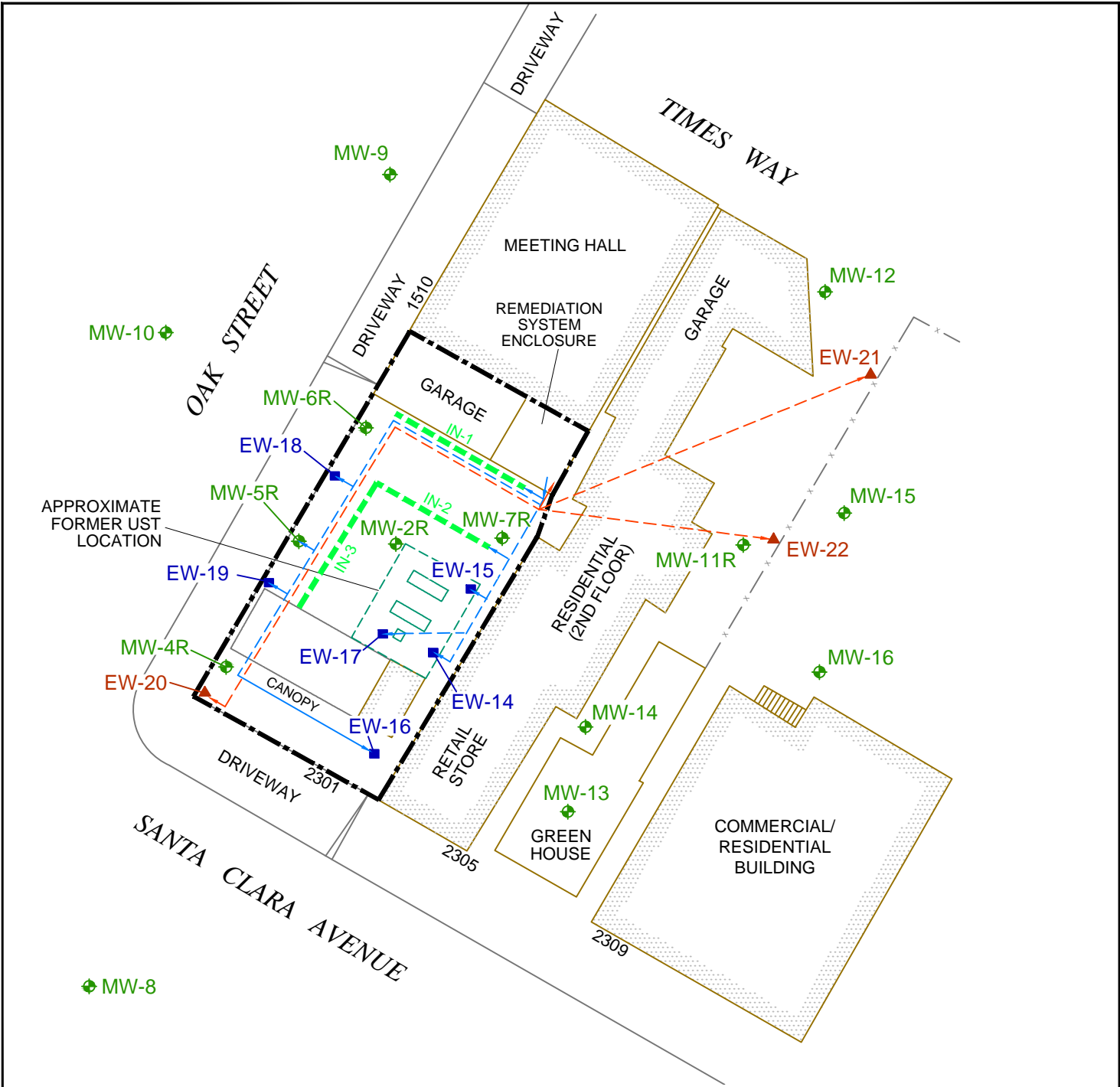


FIGURE 2

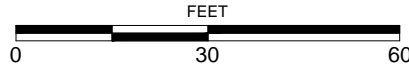
SITE VICINITY

2301 SANTA CLARA AVENUE
 ALAMEDA, CALIFORNIA
 401896004 | 12/17



LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012

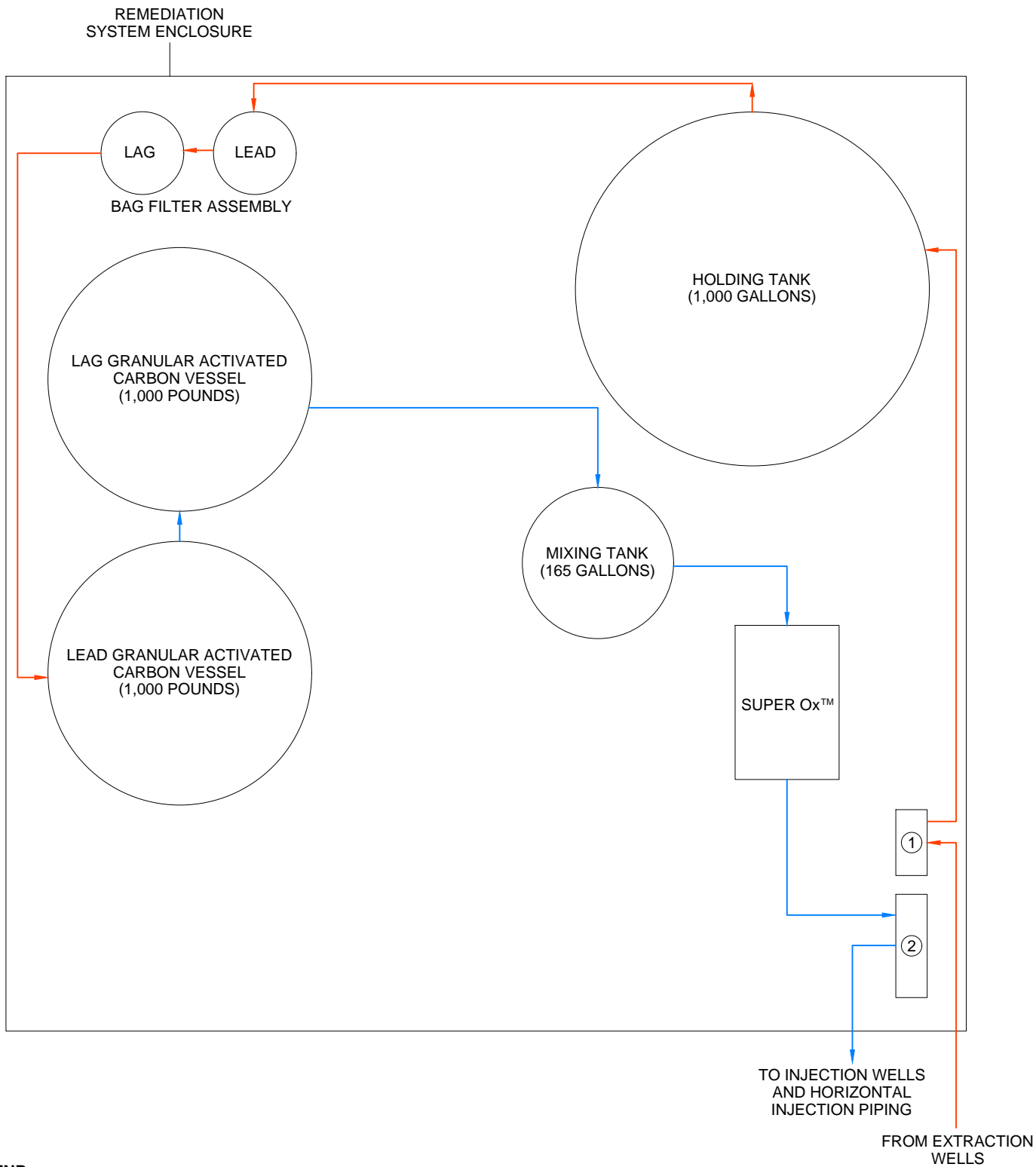
401896004_SP.dwg 12/13/2017 AEK

FIGURE 3

SITE PLAN



2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA
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LEGEND

- ① EXTRACTION WELL MANIFOLD
- ② INJECTION WELL AND HORIZONTAL INJECTION PIPING MANIFOLD

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE



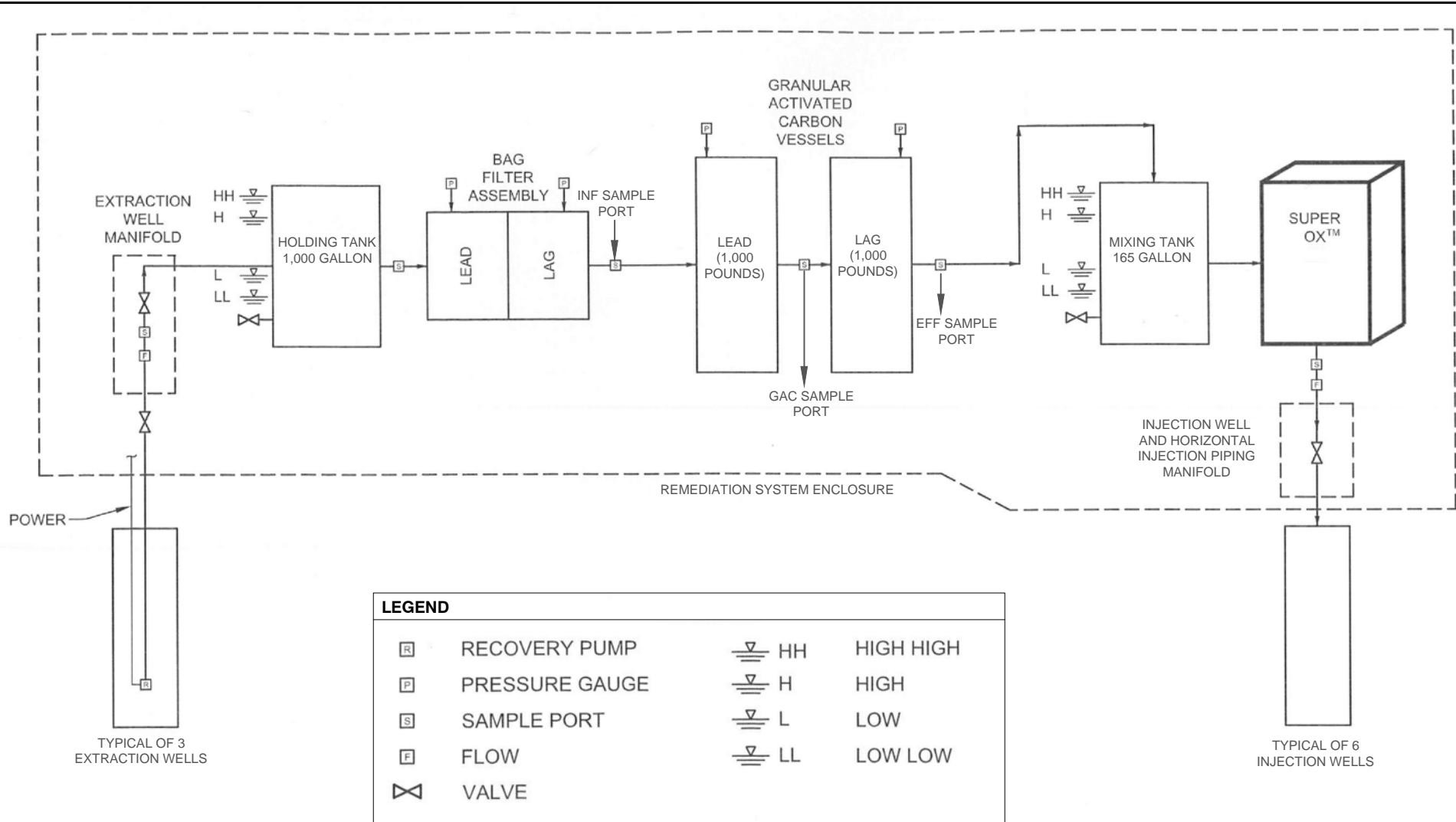
NOT TO SCALE

401896004_RSP.dwg 12/13/2017 AEK

FIGURE 4

REMEDIATION SYSTEM PLAN

401896004_RSB.dwg 12/13/2017 AEK

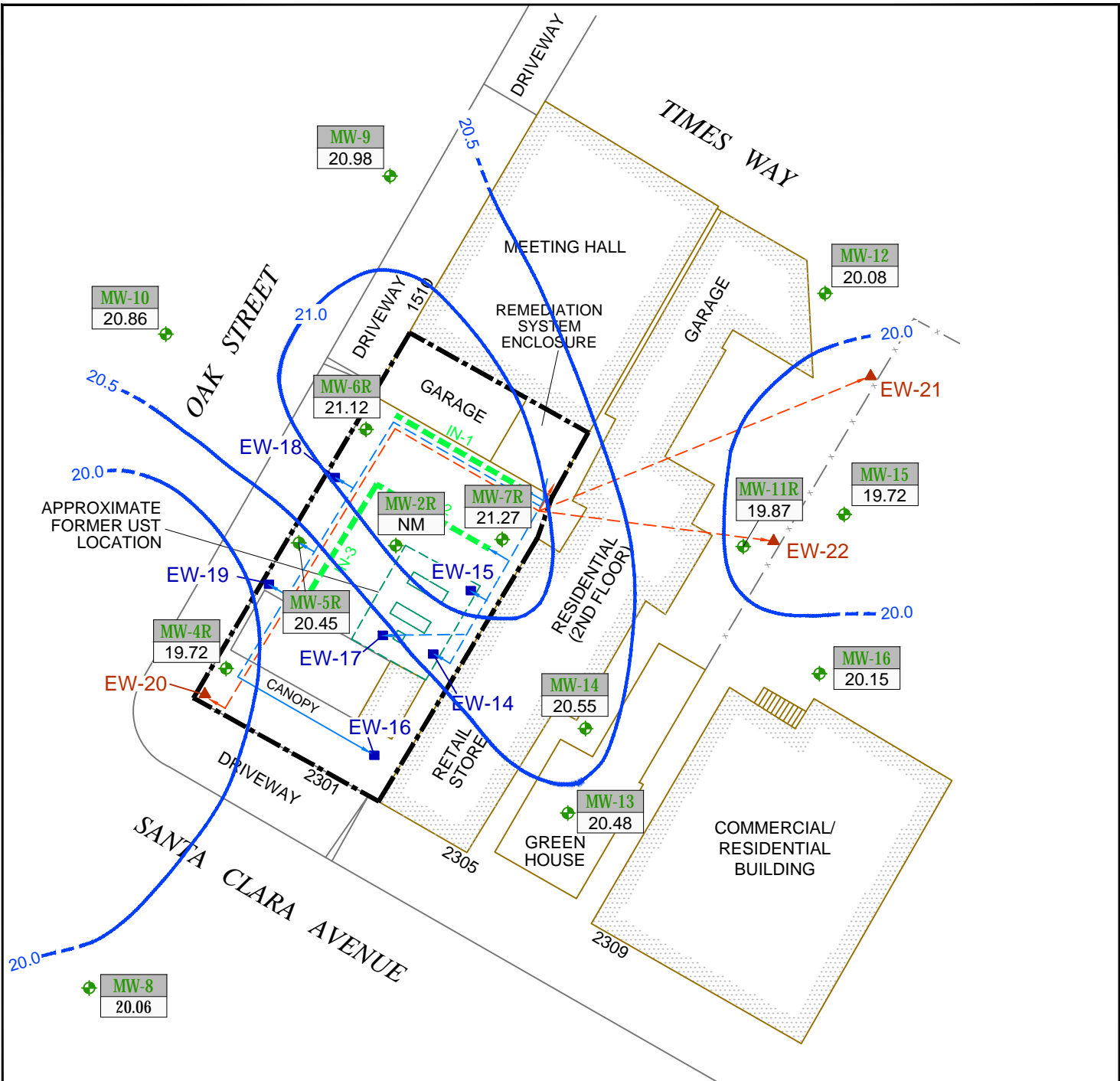


LEGEND			
	RECOVERY PUMP		HIGH HIGH
	PRESSURE GAUGE		HIGH
	SAMPLE PORT		LOW
	FLOW		LOW LOW
	VALVE		

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE

FIGURE 5

REMEDIATION SYSTEM SCHEMATIC

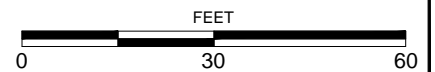


LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- GROUNDWATER INJECTION WELL

- WELL ID
- GROUNDWATER ELEVATION, MAY 17-18, 2017 (FEET MEAN SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR (FEET MEAN SEA LEVEL, DASHED WHERE INFERRED)
- NOT MEASURED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012



401896004_GW_2017.dwg 12/13/2017 AEK

FIGURE 6

GROUNDWATER ELEVATION CONTOUR

MAY 17-18, 2017

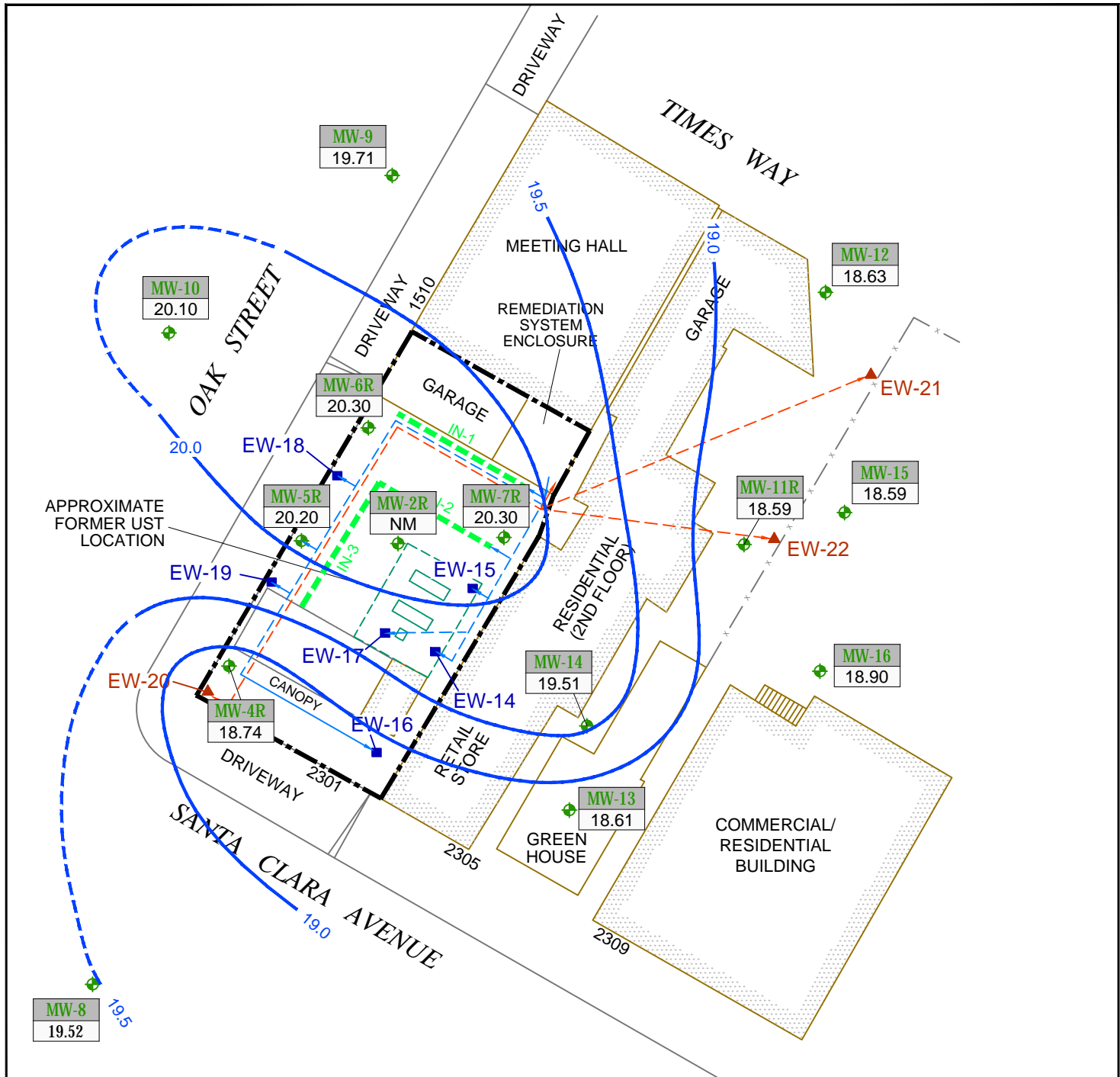
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004 | 12/17



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LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 ◆ GROUNDWATER MONITORING WELL
- EW-22 ▲ GROUNDWATER EXTRACTION WELL
- EW-19 ■ GROUNDWATER INJECTION WELL

- WELL — WELL ID
- ELEV — GROUNDWATER ELEVATION, SEPTEMBER 13-14, 2017 (FEET MEAN SEA LEVEL)
- - - 20.0 GROUNDWATER ELEVATION CONTOUR (FEET MEAN SEA LEVEL, DASHED WHERE INFERRED)
- NM NOT MEASURED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012

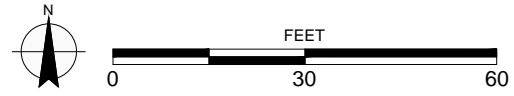
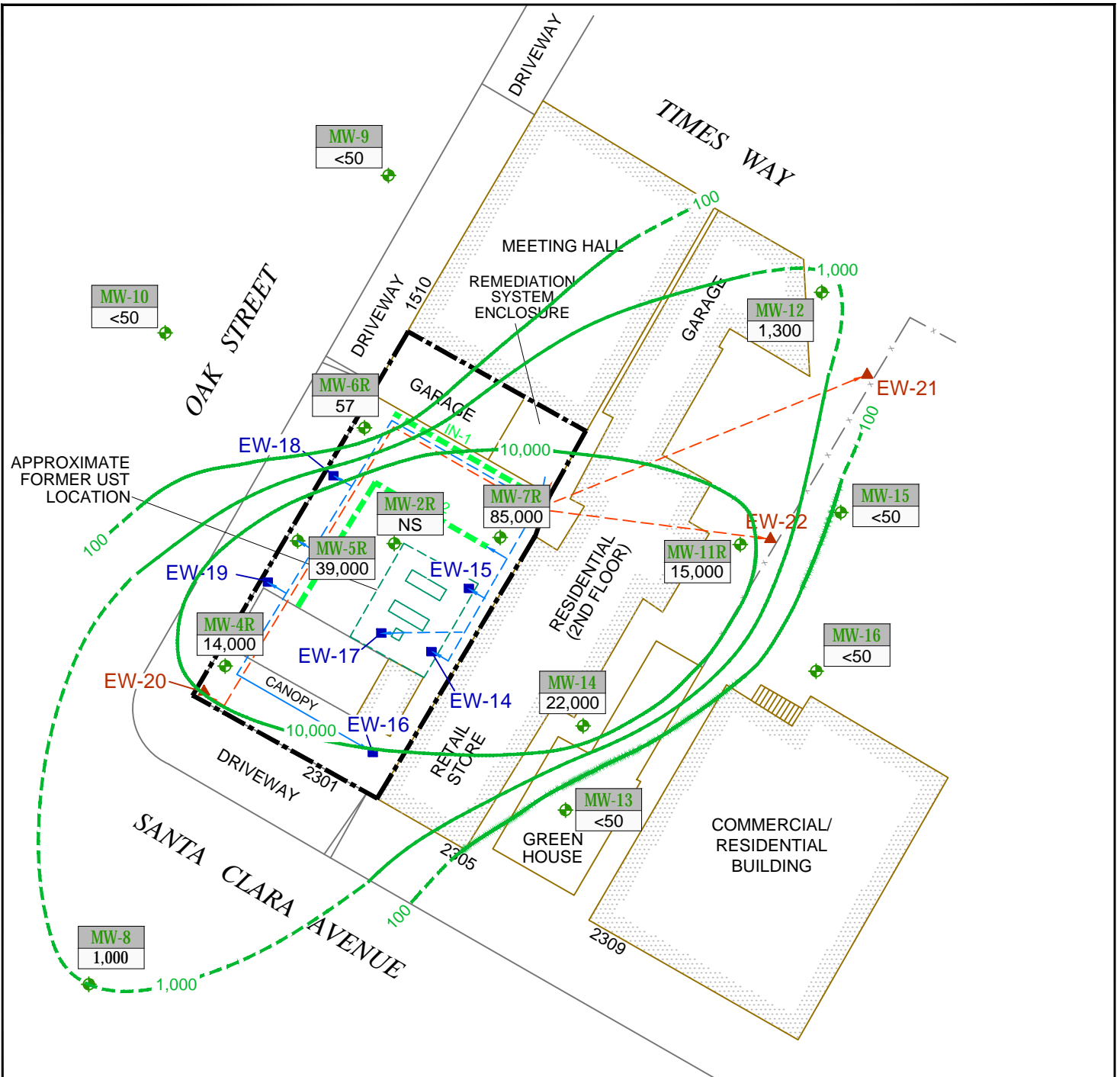


FIGURE 7

GROUNDWATER ELEVATION CONTOUR
SEPTEMBER 13-14, 2017
 2301 SANTA CLARA AVENUE
 ALAMEDA, CALIFORNIA
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401896004_TPHG_2017.dwg 12/13/2017 AEK



LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- GROUNDWATER INJECTION WELL
- WELL ID
- TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg), IN MICROGRAMS PER LITER (µg/L), MAY 17-18, 2017
- 100 TPHg CONCENTRATIONS CONTOUR, IN µg/L (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012

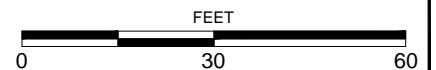
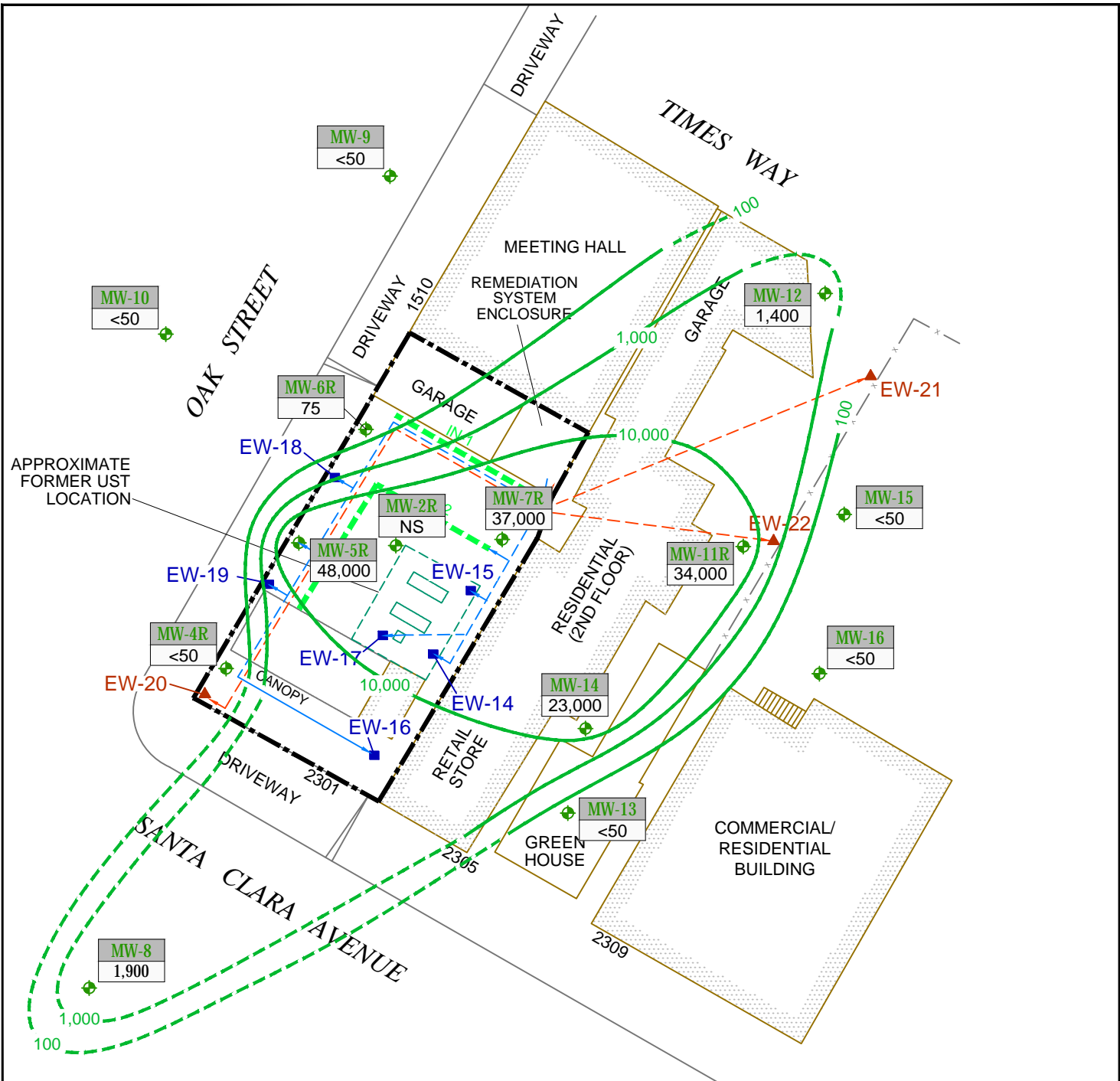


FIGURE 8

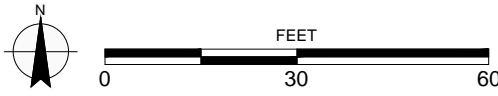


LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL

- WELL ID
- TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg), IN MICROGRAMS PER LITER ($\mu\text{g/L}$), SEPTEMBER 13-14, 2017
- 100 TPHg CONCENTRATIONS CONTOUR, IN $\mu\text{g/L}$ (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012



401896004_TPHG_2017.dwg 12/14/2017 AEK

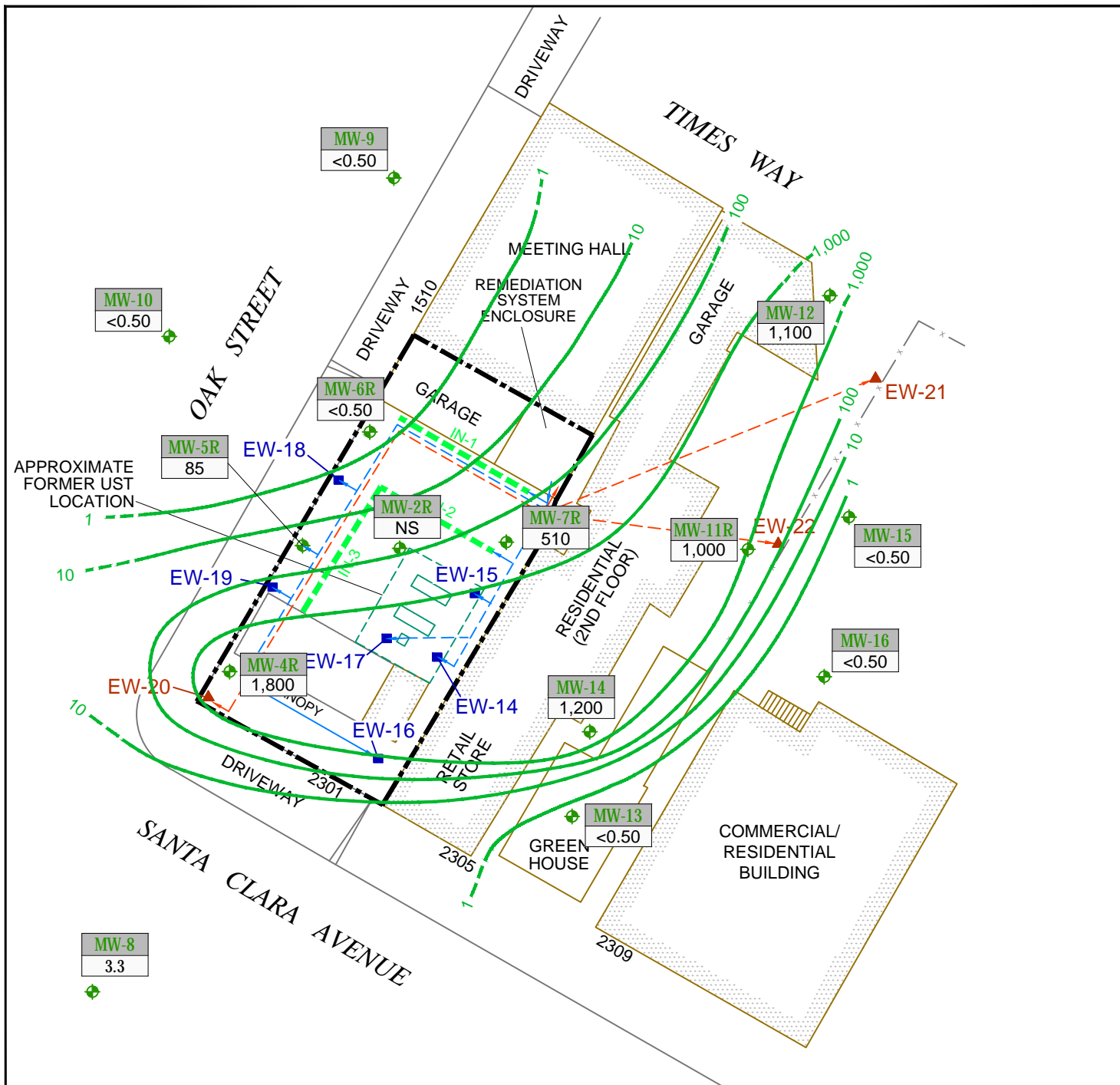
FIGURE 9

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER SEPTEMBER 13-14, 2017

2301 SANTA CLARA AVENUE, ALAMEDA, CALIFORNIA
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401896004_BENZ_2017.dwg 12/13/2017 AEK



LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL
- WELL ID
- BENZENE CONCENTRATIONS, IN MICROGRAMS PER LITER (µg/L), MAY 17-18, 2017
- BENZENE CONCENTRATIONS CONTOUR, IN µg/L (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012

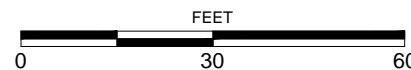
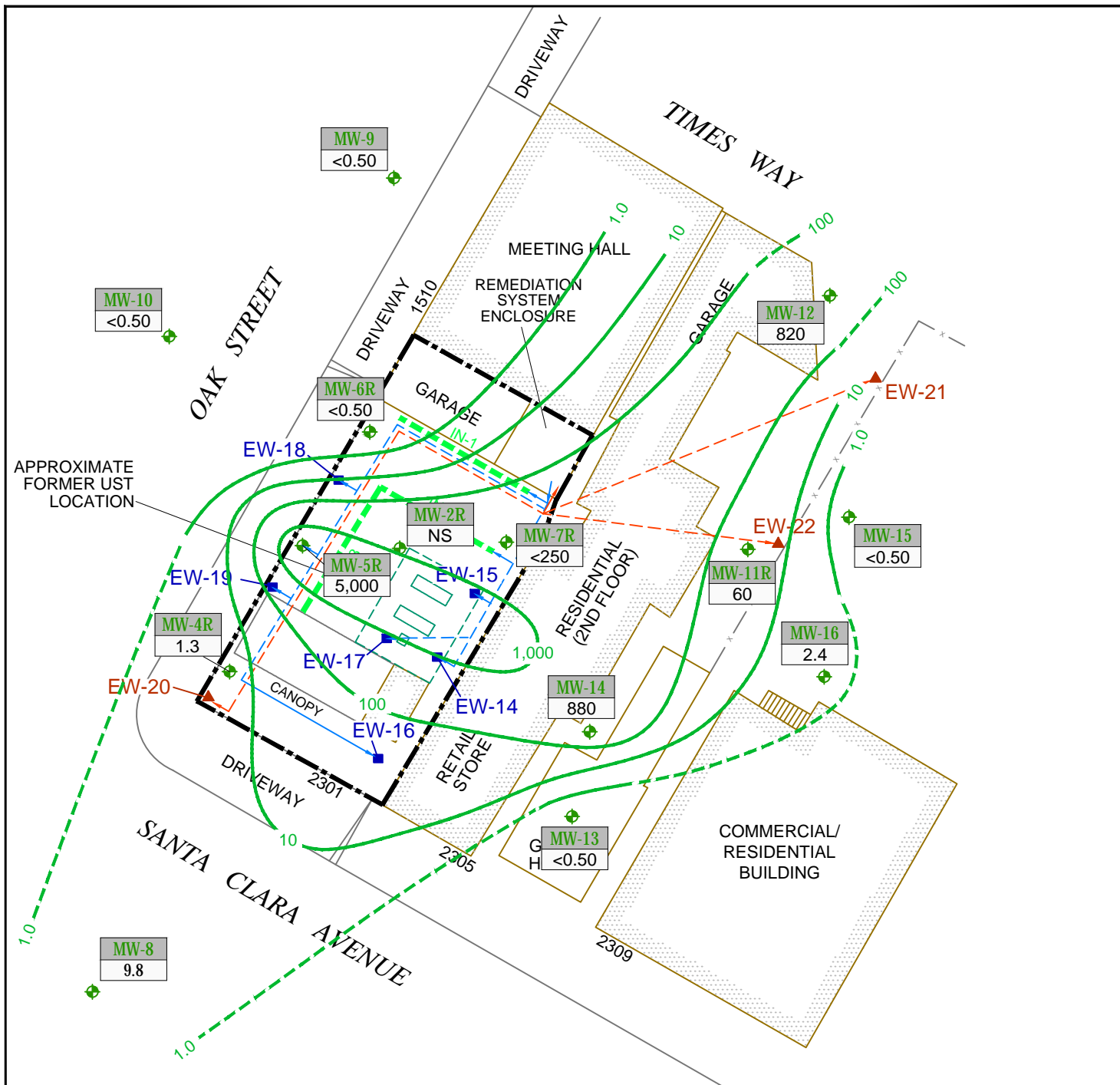


FIGURE 10

401896004_BENZ_3017.dwg 12/14/2017 AEK



LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL
- WELL ID
- BENZENE CONCENTRATIONS, IN MICROGRAMS PER LITER (µg/L), SEPTEMBER 13-14, 2017
- BENZENE CONCENTRATIONS CONTOUR, IN µg/L (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012

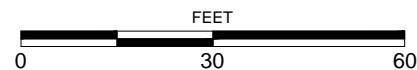


FIGURE 11

**BENZENE CONCENTRATIONS IN GROUNDWATER
SEPTEMBER 13-14, 2017**

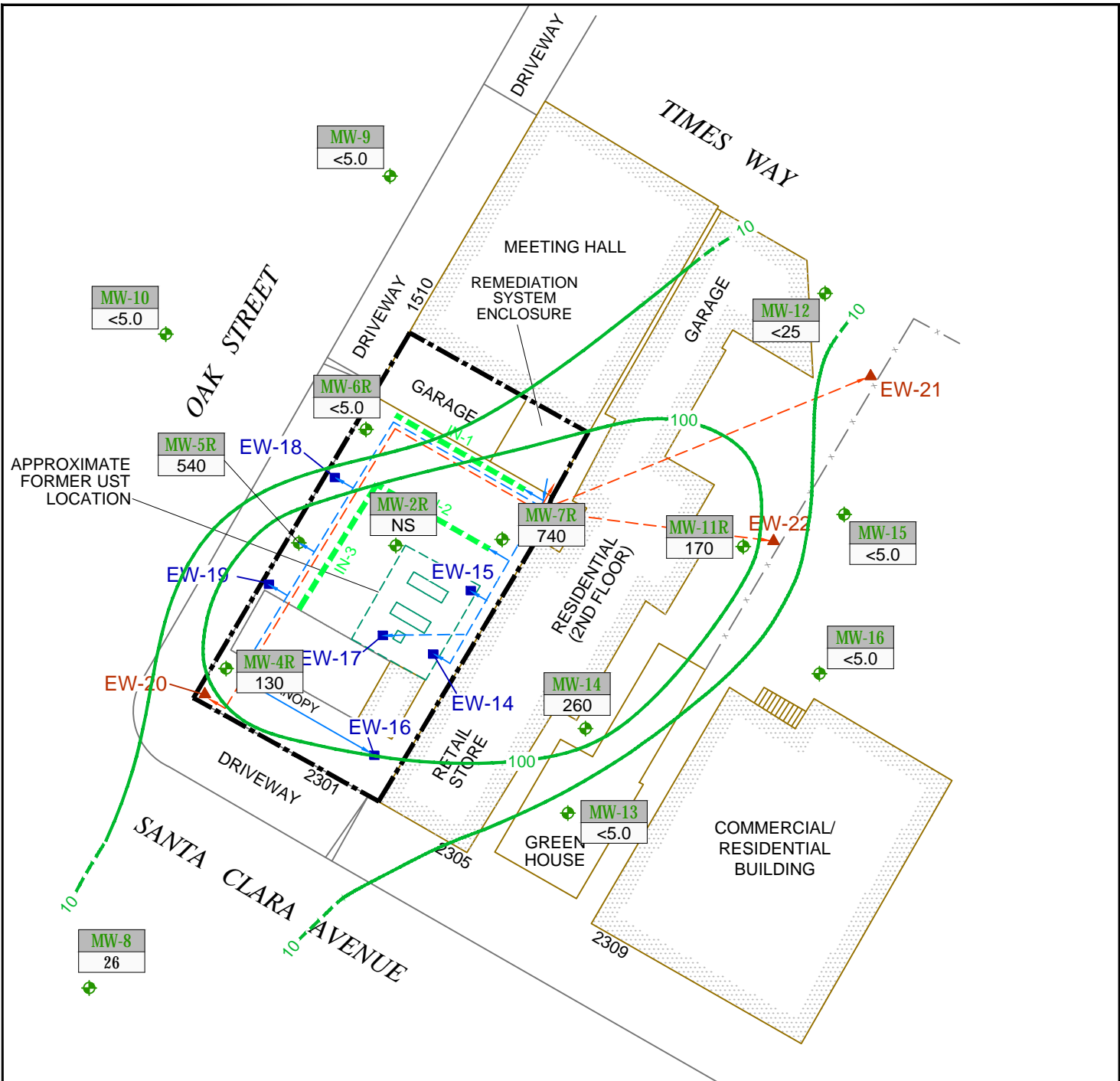
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LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL
- WELL ID
- NAPHTHALENE CONCENTRATIONS, IN MICROGRAMS PER LITER (µg/L), MAY 17-18, 2017
- NAPHTHALENE CONCENTRATIONS CONTOUR, IN µg/L (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012



FIGURE 12

NAPHTHALENE CONCENTRATIONS IN GROUNDWATER

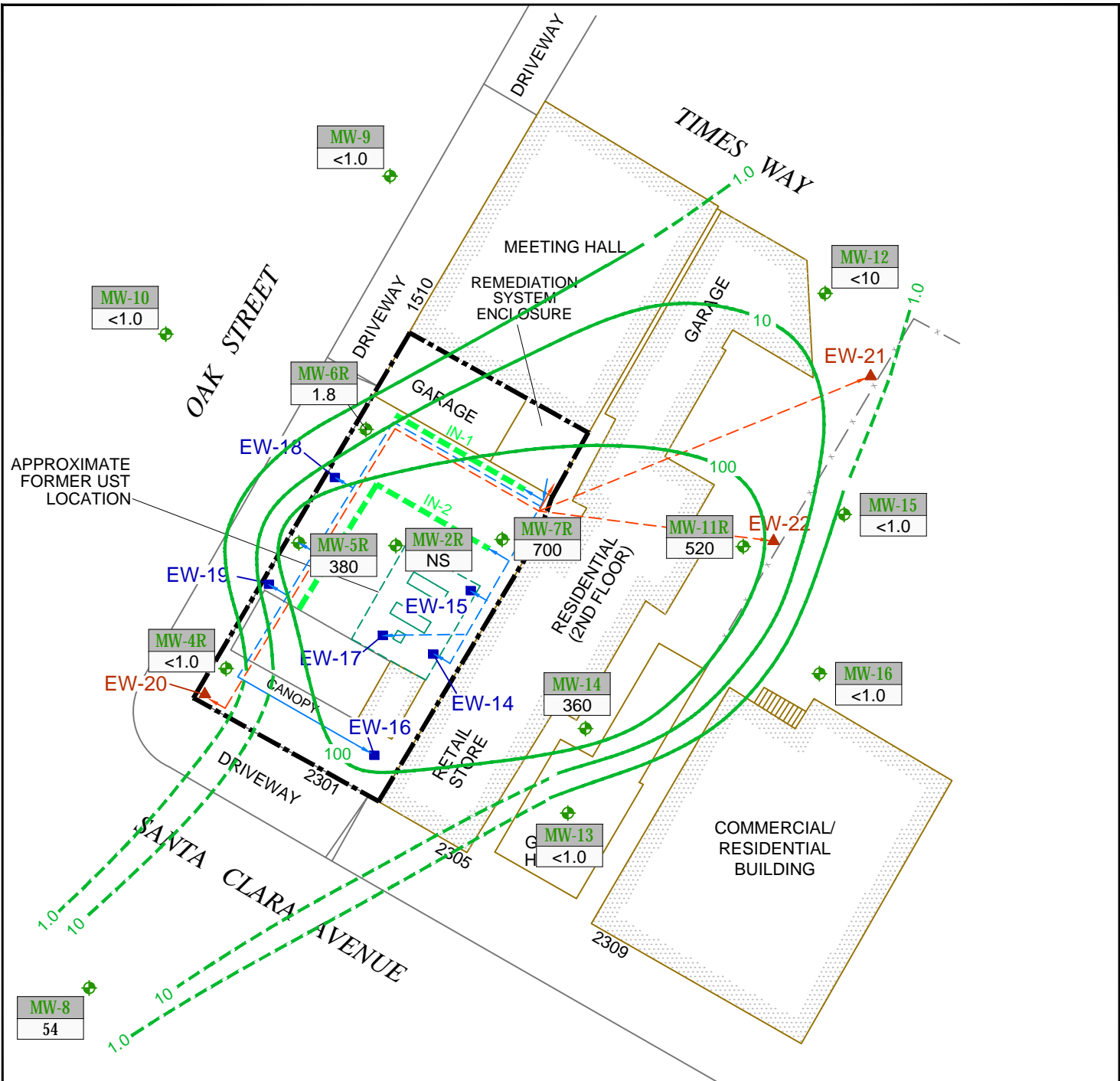
MAY 17-18, 2017

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ALAMEDA, CALIFORNIA

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401896004_NAPH_3Q17.dwg 12/15/2017 AEK



LEGEND

- SITE BOUNDARY
- FENCE
- EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
- INJECTION WATER SUPPLY LINE
- SLOTTED HORIZONTAL INJECTION PIPING
- MW-16 GROUNDWATER MONITORING WELL
- EW-22 GROUNDWATER EXTRACTION WELL
- EW-19 GROUNDWATER INJECTION WELL
- WELL ID
- NAPHTHALENE CONCENTRATIONS, IN MICROGRAMS PER LITER (µg/L), SEPTEMBER 13-14, 2017
- 100 NAPHTHALENE CONCENTRATIONS CONTOUR, IN µg/L (DASHED WHERE INFERRED)
- NS NOT SAMPLED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE | REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012



FIGURE 13

**NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
SEPTEMBER 13-14, 2017**

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004 | 12/17

APPENDIX A

HISTORICAL CONSTITUENTS OF CONCERN CONCENTRATIONS

**HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-1
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS**

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EiBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
9/17/2000	65,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	43,000	7,200													
9/20/2003	19,000	4,900													
12/25/2003	12,000	3,400													
4/24/2004	33,000	8,000													
8/8/2004	29,000	9,700													
8/20/2005	35,000	14,000	6,500	1,600	5,000	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	72,000	17,000	16,000	3,000	10,400	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	65,000	21,000	16,000	2,900	9,900	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	62,000	17,000	12,000	2,300	8,600	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	46,000	6,500	4,200	980	4,890	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	57,000	11,000	11,000	2,200	9,600	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	22,000	4,700	4,100	950	4,100	ND	ND	ND	ND	ND	ND	2.7	390	140	640
9/6/2008	8,300	2,300	740	160	700	ND	ND	ND	ND	ND	ND	ND	200	34	130
9/26/2009	4,100	1,600	310	150	610	ND	ND	ND	ND	ND	ND	ND	75	32	120
2/27/2010	1,600	1,200	110	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	3,100	1,300	54	ND	640	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	12,000	5,200	1,700	270	1,790	ND	ND	ND	ND	ND	ND	ND	230	68	230

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-2
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	140,000	21,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	41,000	5,600													
9/21/2003	27,000	2,400													
12/25/2003	46,000	6,100													
4/24/2004	44,000	8,400													
8/8/2004	21,000	6,800													
8/20/2005	31,000	10,000	5,100	1,400	7,100	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	50,000	15,000	5,200	970	4,400	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	37,000	12,000	8,500	1,700	6,200	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	24,000	8,100	1,400	840	3,090	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	17,000	4,300	2,400	590	2,100	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	ND	5,400	170	320	750	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	2,500	6,700	540	300	940	ND	ND	ND	3.3	ND	ND	6.6	310	97	260
9/6/2008	6,300	3,000	440	10	290	ND	ND	ND	ND	ND	ND	ND	120	22	12
9/26/2009	5,500	1,800	610	140	680	ND	ND	ND	ND	ND	ND	ND	90	52	180
2/27/2010	3,600	2,500	430	42	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	4,700	1,500	550	ND	860	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	11,000	6,300	790	ND	1,230	ND	ND	ND	ND	ND	ND	ND	210	69	170

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-2R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-3
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	9,300	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	10,000	2,300													
9/21/2003	2,700	320													
12/25/2003	3,300	290													
4/24/2004	3,100	1,000													
8/8/2004	2,500	400													
8/20/2005	5,500	3,000	27	140	740	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	6,400	2,100	19	150	530	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	7,000	2,000	52	380	940	ND	ND	ND	31	ND	ND	ND			
9/5/2006	6,000	1,500	31	180	720	ND	ND	ND	27	ND	ND	ND			
1/4/2007	5,500	1,400	ND	77	297	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	5,600	1,500	87	180	740	ND	ND	ND	38	ND	ND	ND			
9/22/2007	5,600	1,300	35	57	189	ND	ND	ND	28	ND	ND	ND	120	8.6	30
9/6/2008	2,600	500	13	19	125	ND	ND	ND	20	ND	ND	ND	33	4.1	11
9/26/2009	2,200	240	12	14	104	ND	ND	ND	4.6	ND	ND	ND	69	3.0	11
2/27/2010	7,270	120	5.4	7.9	44	ND	ND	ND	4.6	ND	ND	ND	38	1.3	2.1
8/21/2010	100	ND	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	1,100	120	2.4	2.4	88	ND	ND	ND	ND	ND	ND	ND	54	7.2	7.2

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-4
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	3,000	1.0													
8/8/2004	ND	ND													
8/20/2005	1,100	1.5	ND	ND	63	ND	ND	ND	ND	ND	ND	ND			
3/13/2006	320	ND	ND	1.4	17	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	1,500	0.9	3.8	78	236	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	760	ND	ND	1.6	60	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	13	ND	ND
9/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	2.6
2/27/2010	130	ND	0.6	3.6	27	ND	ND	ND	ND	ND	ND	ND	ND	1.8	3.2
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-4R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-5
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	44,000	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	16,000	89													
9/21/2003	8,700	ND													
12/25/2003	2,300	140													
4/24/2004	13,000	97													
8/8/2004	13,000	82													
8/20/2005	19,000	130	750	1,000	4,400	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	21,000	61	350	700	3,330	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	14,000	91	620	1,000	4,340	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	15,000	56	550	890	3,910	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	20,000	110	680	1,200	4,250	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	23,000	72	1,200	ND	5,300	ND	ND	ND	ND	ND	ND	ND			
9/24/2007	6,100	490	770	950	4,140	ND	ND	ND	ND	ND	ND	ND	360	250	1,300
9/5/2008	740	ND	1.1	0.8	22	ND	ND	ND	ND	ND	ND	ND	27	22	1.2
9/27/2009	4,000	7.9	47	120	670	ND	ND	ND	ND	ND	ND	ND	86	86	370
2/27/2010	2,100	5.8	34	86	400	ND	ND	ND	ND	ND	ND	ND	92	26	130
8/20/2010	840	0.7	0.5	ND	162	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	2,500	6.8	32	13	431	ND	ND	ND	ND	ND	ND	ND	93	45	69

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-5R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-6
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	
	Analytical Results (µg/L)															
9/17/2000	10,000	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/4/2002	3,900	29														
9/20/2003	500	15														
12/25/2003	1,200	18														
4/24/2004	110	3.6														
8/8/2004	320	2.7														
8/20/2005	810	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/12/2006	9,140	3.3	13	46	173	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2006	1,100	4.4	10	50	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1/4/2007	390	2.0	14	23	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7/8/2007	720	2.8	3.2	33	42	ND	ND	ND	ND	ND	ND	ND	ND	19	3.0	17
9/23/2007	1,200	2.8	7.3	56	142	ND	ND	ND	ND	ND	ND	ND	ND	17	13	60
9/5/2008	730	2.0	4.0	16	116	ND	ND	ND	ND	ND	ND	ND	ND	24	9.4	41
9/26/2009	170	0.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	6.4	ND	0.8
2/27/2010	230	1.3	1.0	5.8	18	ND	ND	ND	ND	ND	ND	ND	ND	23	1.9	6.7
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	360	1.2	1.6	ND	9.4	ND	ND	ND	ND	ND	ND	ND	ND	29	3.6	16

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-6R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-7
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	220,000	32,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	140,000	15,000													
9/21/2003	110,000	4,200													
12/25/2003	110,000	12,000													
4/24/2004	100,000	10,000													
8/8/2004	92,000	9,300													

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-7R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-8
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	1.1													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/8/2004	NA	NA													
8/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/6/2006	ND	1.4	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/6/2007	390	4.4	4.7	0.9	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/21/2007	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-9
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/22/2005	ND	ND													
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1/6/2007	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
9/21/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-10
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/22/2004	ND	ND													
8/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1/6/2007	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/21/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-11
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/24/2002	59,000	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/22/2003	46,000	1,700													
12/25/2003	14,000	1,400													
4/24/2004	38,000	5,000													
8/8/2004	29,000	3,100													
8/20/2005	31,000	5,100	1,500	3,400	17,800	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	47,000	5,600	2,400	1,900	10,100	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
6/12/2006	44,000	5,900	2,200	3,600	15,700	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	36,000	5,900	2,100	3,000	16,000	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	50,000	2,200	450.0	2,100	13,300	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	54,000	2,800	1,200.0	3,100	16,400	ND	ND	ND	ND	ND	ND	ND			
9/22/2007	21,000	2,000	1,000	3,100	9,700	ND	ND	ND	ND	ND	ND	ND	490	310	2,700
9/5/2008	11,000	770	160	940	3,100	ND	ND	ND	ND	ND	ND	ND	440	160	1,300
9/26/2009	14,000	280	2,900	560	4,800	ND	ND	ND	ND	ND	ND	ND	150	170	690
2/27/2010	13,000	53	860	700	4,900	ND	ND	ND	ND	ND	ND	ND	180	150	670
8/20/2010	57,000	ND	97	190	2,120	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	19,000	ND	29	30	6,500	ND	ND	ND	ND	ND	ND	ND	410	380	1,500

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-11R in May 2012.

**HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-12 (formerly BL)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS**

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	400	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	11			
6/12/2006	ND	6.8	ND	ND	ND	ND	ND	ND	2.2	ND	ND	2.9			
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	0.92	ND	ND	ND	ND	ND	ND
9/22/2007	ND	8.6	ND	ND	ND	ND	ND	ND	2.8	ND	ND	3.5	ND	ND	ND
9/4/2008	ND	ND	ND	ND	ND	ND	21	ND	3.6	ND	ND	5.0	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

**HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-13 (formerly BG)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS**

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	100	5.9	ND	ND	ND	ND	ND	ND	13	ND	ND	39	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7			
6/12/2006	110	7.6	ND	ND	ND	ND	31	ND	16	ND	ND	48			
9/7/2006	ND	3.3	ND	ND	ND	ND	ND	ND	20	ND	ND	40			
1/5/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	30	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	37	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	31	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	6.2	ND	ND	ND
2/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	6.8	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-14 (formerly BF)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	3,800	89	4.7	150	3.4	ND	80	ND	19	ND	ND	42	NA	NA	NA
3/14/2006	ND	5,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	14,000	11,000	ND	600	ND	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	ND	6,500	ND	170	ND	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	13,000	5,200	5.7	190	71	ND	ND	ND	ND	ND	ND	ND	97	48	73
7/7/2007	6,900	3,700	54	550	582	ND	ND	ND	ND	ND	ND	ND	49	22	14
9/22/2007	3,200	2,600	19	310	160	ND	ND	ND	ND	ND	ND	3.9	11	ND	3.2
9/5/2008	690	280	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-15 (formerly BH)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38			
6/12/2006	ND	0.93	ND	ND	ND	ND	130	ND	6.0	ND	ND	55			
9/6/2006	ND	ND	ND	ND	ND	ND	31	ND	3.8	ND	ND	38			
1/5/2007	140	12	44	3.6	19.9	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	90	ND	4.8	ND	ND	60	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	29	ND	2.5	ND	ND	27	ND	ND	ND
9/4/2008	ND	1.1	ND	ND	ND	ND	ND	ND	3.0	ND	ND	20	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	3.6	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-16 (formerly BM)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10			
6/12/2006	ND	ND	ND	ND	ND	ND	29	ND	5.0	ND	ND	14			
9/6/2006	ND	ND	ND	ND	ND	ND	12	ND	5.8	ND	ND	4.7			
1/6/2007	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	11			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	4.5	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	4.2	ND	ND	6.8	ND	ND	ND
9/4/2008	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	9.1	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-12
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/31/2002	5,840	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/21/2003	19,000	590													
12/25/2003	9,900	790													
4/24/2004	12,000	920													

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-13
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/31/2002	109,200	9,120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/21/2003	71,000	10,000													
12/25/2003	110,000	17,000													
4/24/2004	100,000	19,000													
8/8/2004	NA	NA													
8/22/2005	130,000	27,000	5,500	4,200	21,700	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	140,000	16,000	46,000	3,300	19,300	ND	ND	ND	ND	ND	ND	1,400			
6/11/2006	130,000	23,000	48,000	3,000	18,800	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	120,000	12,000	40,000	3,200	17,800	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	410,000	57,000	43,000	17,000	75,000	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	140,000	10,000	45,000	4,400	22,800	ND	ND	ND	ND	ND	ND	ND	ND	600	2,200
9/24/2007	27,000	5,400	35,000	3,600	18,600	ND	ND	ND	ND	ND	ND	ND	410	280	1,700
9/6/2008	73,000	7,900	21,000	730	11,300	ND	ND	ND	ND	ND	ND	ND	ND	210	860
9/27/2009	12,000	1,200	3,900	440	2,630	ND	ND	ND	ND	ND	ND	ND	74	71	300
2/27/2010	11,000	3,500	4,300	380	730	ND	ND	ND	ND	ND	ND	ND	57	ND	ND
8/22/2010	14,000	2,600	2,400	30	2,180	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	44,000	7,900	13,000	350	9,500	ND	ND	ND	ND	ND	ND	ND	240	210	890

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-14
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/22/2003	68,000	4,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/25/2003	26,000	5,300													
4/24/2004	9,400	4,100													
8/8/2004	14,000	6,300													
8/22/2005	26,000	7,100													
3/13/2006	1,300	360	110	35	119	13	ND	ND	ND	ND	ND	ND	NA	NA	NA
6/11/2006	2,300	1,100	260	45	198	ND	ND	ND	3.3	ND	ND	ND			
9/6/2006	20,000	4,700	4,200	980	3,800	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	30,000	7,000	4,500	1,100	5,000	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	54,000	14,000	8,800	2,400	10,000	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	19,000	9,900	7,700	2,100	9,300	ND	ND	ND	ND	ND	ND	12	290	220	1,100
9/6/2008	12,000	4,000	900	66	1,980	ND	ND	ND	ND	ND	ND	ND	110	53	220
9/27/2009	1,700	520	49	41	373	ND	ND	ND	ND	ND	ND	ND	19	15	64
2/27/2010	ND	ND	ND	2.2	373	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-15
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	72,000	8,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	36,000	3,300													
8/22/2005	670,000	11,000													
3/13/2006	12,000	1,900													
6/11/2006	25,000	2,900	11,000	2,300	11,200	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
9/6/2006	51,000	8,200													
1/5/2007	30,000	9,700													
7/9/2007	46,000	5,200	3,800	2,500	11,500	ND	ND	ND	ND	ND	ND	ND	500	630	2,300
9/23/2007	59,000	14,000	5,800	3,600	16,000	ND	ND	ND	4.1	ND	ND	2.5	660	440	2,400
9/6/2008	19,000	7,100	1,000	57	2,730	ND	ND	ND	3.1	ND	ND	4.4	180	130	280
9/26/2009	8,800	1,400	530	280	2,650	ND	ND	ND	ND	ND	ND	ND	96	140	480
2/27/2010	720	250	57	50	113	ND	ND	ND	ND	ND	ND	ND	6.3	1.6	1.5
8/22/2010	1,600	200	4.1	ND	357	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	3,600	680	870	27	780	ND	ND	ND	ND	ND	ND	ND	25	21	31

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-16
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	1,500	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	2,500	590													
8/20/2005	1,600	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
3/13/2006	900	400	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	1,400	680	4.1	13	23	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	2,100	210	ND	2.6	ND	ND	ND	ND	14	ND	ND	ND			
1/4/2007	370	2.9	ND	ND	ND	ND	ND	ND	6.6	ND	ND	ND			
7/9/2007	2,300	53	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	59	ND	ND
9/22/2007	680	4.2	ND	1.1	1.5	ND	ND	ND	ND	ND	ND	ND	29	ND	ND
9/5/2008	310	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	7.3	ND	ND
9/26/2009	390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4	ND	ND
2/27/2010	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	190	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-17
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	18,000	2,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	30,000	6,800													
8/22/2005	42,000	13,000	9,300	1,700	8,100	ND	ND	ND	ND	ND	ND	ND			
3/13/2006	29,000	6,500	6,500	1,100	5,500	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	38,000	9,700	9,500	1,600	7,300	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	26,000	8,900	6,900	1,300	6,200	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	27,000	8,100	3,200	890	3,410	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	40,000	7,600	6,400	1,400	7,000	ND	ND	ND	ND	ND	ND	ND	430	220	940
9/23/2007	6,800	5,300	5,300	1,300	5,700	ND	ND	ND	4.2	ND	ND	2.0	210	180	920
9/6/2008	7,500	3,200	530	18	680	ND	ND	ND	ND	ND	ND	ND	87	26	85
9/27/2009	4,200	1,400	580	110	730	ND	ND	ND	ND	ND	ND	ND	64	26	130
2/27/2010	2,600	1,500	400	56	614	ND	ND	ND	ND	ND	ND	ND	50	ND	ND
8/21/2010	2,900	1,200	110	ND	570	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	6,500	3,000	110	ND	1,300	ND	ND	ND	ND	ND	ND	ND	100	51	150

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - Monitoring Well BJ
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	1500	14	100	38	224	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	790	ND	6.6	6.5	57	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	ND	ND	0.9	0.6	4.5	ND	ND	ND	ND	ND	ND	ND			
9/7/2006	ND	1.4	3.8	1.5	9.1	ND	ND	ND	ND	ND	ND	ND			
1/6/2007	ND	ND	2.4	1.4	16	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/22/2007	150	4.0	2.2	0.5	8.9	ND	ND	ND	ND	ND	ND	ND	ND	1.3	4.2
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	1.1	3.4	ND	ND	ND	ND	ND	ND	ND	3.3	ND	0.9
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - Monitoring Well BK
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	3,600	22	61	64	330	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	1,800	ND	14	41	276	ND	ND	ND	ND	ND	ND	28			
6/11/2006	700	ND	0.91	9.8	59	ND	ND	ND	ND	ND	ND	ND			
9/7/2006	1100	0.54	4.9	8.5	70	ND	ND	ND	ND	ND	ND	ND			
1/6/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/22/2007	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	ND	ND	ND	1.8	1.5
9/5/2008	450	18	45	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012.

APPENDIX B

OPERATIONS AND MAINTENANCE FIELD FORMS

Field Form for Treatment System Operations and Maintenance
 Enhanced Biodegradation and Groundwater Recirculation Project
 Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 4 / 11 / 17

Field Tech: ACU

Time: 17 : 11

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	641,900	--	--	
EX-22	488,160	--	--	
EX-21	064,210	--	--	
Injection				
IN-18 + 19	44,350	40	6.0	
IN-16	105,120	34	10	
Trenches 2+3	404,330	46	10	
Trench 1 + IN 17	422,770	24	10	
IN 14 +15	328,790	30	10	

Treatment System

Totalizer: 1,344,110 gal

GAC Lead Pressure: 6 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 38 psi

Bag Filter 2 Pressure: 24 psi

Mixing Tank pH —

Holding Tank pH —

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
- 0 cups soda ash pH buffer

- Add Amendment to Mixing Tank
- 50 lbs CBN nutrient mix
- gal EZT-EA biosurfactant
- cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 4/14/17

Field Tech: Peter Sims

Time: 12:30

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	642910	--	--	
EX-22	489490	--	--	
EX-21	655460	--	--	
Injection				
IN-18 + 19	44480			
IN-16	106050			
Trenches 2+3	405220			
Trench 1 + IN 17	423810			
IN 14 +15	329180			

Treatment System

Totalizer: _____ gal

GAC Lead Pressure: _____ psi

GAC Polish Pressure: _____ psi

Bag Filter 1 Pressure : _____ psi

Bag Filter 2 Pressure : _____ psi

Mixing Tank pH _____

Holding Tank pH _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
_____ lbs CBN nutrient mix
_____ gal EZT-EA biosurfactant
_____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 4/19/17

Field Tech: Peter Sims

Time: 15:20

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>642930</u>	--	--	
EX-22	<u>489520</u>	--	--	
EX-21	<u>655490</u>	--	--	
Injection				
IN-18 + 19	<u>44480</u>	<u>38</u>	<u>5.4</u>	<u>Hasn't changed in 2 weeks</u>
IN-16	<u>106050</u>	<u>38</u>	<u>5.6</u>	<u>"</u>
Trenches 2+3	<u>405230</u>	<u>36</u>	<u>6.8</u>	<u>"</u>
Trench 1 + IN 17	<u>423820</u>	<u>34/36</u>	<u>8.2/7.2-6.8</u>	
IN 14 +15	<u>329180</u>	<u>38</u>	<u>5.2</u>	
<u>Low-pressure alarm on when first arrived at site</u>				

Treatment System

Totalizer: 1367190 gal

GAC Lead Pressure: # 6 psi

GAC Polish Pressure: # 2 psi

Bag Filter 1 Pressure: 11 psi

Bag Filter 2 Pressure: 10 psi

Mixing Tank pH _____

Holding Tank pH _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
- cups soda ash pH buffer

- Add Amendment to Mixing Tank
- lbs CBN nutrient mix
- gal EZT-EA biosurfactant
- cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 4/21/17

Field Tech: Peter Sims

Time: 12:15

Wells

13:15

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	643290	--	--	643300
EX-22	490050	--	--	490060
EX-21	655970	--	--	655980
Injection				
IN-18 + 19	44530	37	6.6	44540
IN-16	106100	37	6.8	106110
Trenches 2+3	405600	36	8.0	405620
Trench 1 + IN 17	424170	36	8.0	424190
IN 14 +15	329400	40/36	5/8.0	329410

Treatment System

Totalizer: 1,369,430 gal

GAC Lead Pressure: _____ psi
 GAC Polish Pressure: _____ psi
 Bag Filter 1 Pressure: 12 psi
 Bag Filter 2 Pressure: 17 psi
 Mixing Tank pH: _____
 Holding Tank pH: _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
 _____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
 _____ lbs CBN nutrient mix
 _____ gal EZT-EA biosurfactant
 _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 4/28/17

Field Tech: Peter Sims

Time: 12:15

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>6454830</u>	--	--	
EX-22	<u>493026</u>	--	--	
EX-21	<u>658200</u>	--	--	
Injection				
IN-18 + 19	<u>44830</u>	<u>40</u>	<u>7.0</u>	
IN-16	<u>106410</u>	<u>38</u>	<u>8.2</u>	
Trenches 2+3	<u>407610</u>	<u>36</u>	<u>9.0</u>	<u>38/7.4</u>
Trench 1 + IN 17	<u>426210</u>	<u>36</u>	<u>9.0</u>	
IN 14 +15	<u>330630</u>	<u>40/38</u>	<u>6.0/9.0</u>	
<p><i>Flow in T2/3 and T1/17 at same time during T2/3 station, most water going to T1/17. Clean solenoids. Fixed during next injection cycle, though initially some leakage was observed in T1/17 during the T2/3 cycle stage. Solenoids should be replaced.</i></p>				

Treatment System

Totalizer: 1375110 gal

GAC Lead Pressure: 11 psi

GAC Polish Pressure: 10 psi

Bag Filter 1 Pressure: 5 psi

Bag Filter 2 Pressure: 0 psi

Mixing Tank pH: —

Holding Tank pH: —

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
- cups soda ash pH buffer

- Add Amendment to Mixing Tank
- 50 lbs CBN nutrient mix
- gal EZT-EA biosurfactant
- cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 5 / 13 / 17

Field Tech: Peter Sims

Time: 06:45

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	645776	--	--	
EX-22	493490	--	--	
EX-21	659140	--	--	
Injection				
IN-18 + 19	44886			
IN-16	106450			
Trenches 2+3	407950			
Trench 1 + IN 17	426520			
IN 14 +15	330830			

Treatment System

Totalizer: _____ gal

GAC Lead Pressure: _____ psi

GAC Polish Pressure: _____ psi

Bag Filter 1 Pressure : _____ psi

Bag Filter 2 Pressure : _____ psi

Mixing Tank pH _____

Holding Tank pH _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
 - Check All Flow Meters and Pressure Gauges
 - Check Dissolved Oxygen Pump Circuit Breaker
 - Add Amendment to Holding Tank
- _____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
- _____ lbs CBN nutrient mix
- _____ gal EZT-EA biosurfactant
- _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer

- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 5/10/17

Field Tech: Peter Sims

Time: 9:00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>646980</u>	--	--	
EX-22	<u>495070</u>	--	--	
EX-21	<u>660610</u>	--	--	
Injection				
IN-18 + 19	<u>45030</u>	<u>38</u>	<u>7.2</u>	
IN-16	<u>106610</u>	<u>38</u>	<u>7.2</u>	
Trenches 2+3	<u>409100</u>	<u>37</u>	<u>8.4</u>	
Trench 1 + IN 17	<u>427570</u>	<u>36</u>	<u>8.9</u>	
IN 14 + 15	<u>331460</u>	<u>38</u>	<u>9.0</u>	

Treatment System

Totalizer: 1379920 gal

GAC Lead Pressure: 9 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 15 psi

Bag Filter 2 Pressure: 13 psi

Mixing Tank pH: _____

Holding Tank pH: _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
_____ gal EZT-EA biosurfactant
_____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 6/18/17

Field Tech: Peter Sims

Time: 13:15

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>660060</u>	--	--	
EX-22	<u>510700</u>	--	--	
EX-21	<u>676090</u>	--	--	
Injection				
IN-18 + 19	<u>46650</u>			
IN-16	<u>108220</u>			
Trenches 2+3	<u>421590</u>			
Trench 1 + IN 17	<u>438410</u>			
IN 14 +15	<u>338430</u>			

Treatment System

Totalizer: 1418080 gal

GAC Lead Pressure: _____ psi

GAC Polish Pressure: _____ psi

Bag Filter 1 Pressure : _____ psi

Bag Filter 2 Pressure : _____ psi

Mixing Tank pH _____

Holding Tank pH _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
 - Check All Flow Meters and Pressure Gauges
 - Check Dissolved Oxygen Pump Circuit Breaker
 - Add Amendment to Holding Tank
- _____ cups soda ash pH buffer

Add Amendment to Mixing Tank

50 lbs CBN nutrient mix

_____ gal EZT-EA biosurfactant

_____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 6/21/2017

Field Tech: ALT

Time: 8:15

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
<i>Extraction</i>				
EX-20	668,480	--	--	
EX-22	519,190	--	--	
EX-21	684,410	--	--	
<i>Injection</i>				
IN-18 + 19	47,660	10	38	
IN-16	109,190	10	38	
Trenches 2+3	428,650	10	36	
Trench 1 + IN 17	445,000	10	38	
IN 14 +15	341,800	10	38	

Treatment System

Totalizer (digital): 1,440,300 gal

GAC Lead Pressure: -- psi
 GAC Polish Pressure: -- psi
 Bag Filter 1 Pressure : -- psi
 Bag Filter 2 Pressure : -- psi
 Mixing Tank pH
 Holding Tank pH

Weekly Maintenance Checklist

- X Check O2 Flow
- X Check All Flow Meters and Pressure Gauges
- X Add Amendment to Holding Tank
 _____ cups soda ash pH buffer

- X Add Amendment to Mixing Tank
 50 lbs CBN nutrient mix
 _____ gal EZT-EA biosurfactant
 _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 7 / 5 / 17

Field Tech: ALT

Time: 11 : 15

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	679,130	--	--	
EX-22	528,750	--	--	
EX-21	473,770	--	--	
Injection				
IN-18 + 19	48,820	38	6.4	
IN-16	110,330	38	6.4	
Trenches 2+3	437,180	38	6.5	Fluctuates between 6.0 - 7.0
Trench 1 + IN 17	452,920	38	7.0	
IN 14 + 15	245,730	28	7.2	Fluctuates between 6.4 - 8.0

Treatment System

Totalizer (digital): 1,466,330 gal

GAC Lead Pressure: 8 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 50 psi

Bag Filter 2 Pressure: 32 psi

Mixing Tank pH: —

Holding Tank pH: —

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges

Add Amendment to Holding Tank
 _____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
 - 50 lbs CBN nutrient mix
 - 0 gal EZT-EA biosurfactant
 - 0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 7/19/2017

Field Tech: ALT

Time: 11 : 15

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	690030	--	--	} 1124
EX-22	538140	--	--	
EX-21	703,050	--	--	
Injection				
IN-18 + 19	42,960	38	6.0	
IN-16	111,440	38	7.0	Faint turn
Trenches 2+3	44,820	38	7.2	
Trench 1 + IN 17	461,000	38	8-7	fluctuates
IN 14 +15	349,680	38	8-6.8	fluctuates

Treatment System

Totalizer (digital): 1,492,020 gal 1120

GAC Lead Pressure: 0 psi
 GAC Polish Pressure: 58 psi
 Bag Filter 1 Pressure: 58 psi
 Bag Filter 2 Pressure: 30 psi
 Mixing Tank pH: —
 Holding Tank pH: —

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 8 / 2 / 2017

Field Tech: ALT

Time: 9 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	700,550	--	--	713
EX-22	547,460	--	--	922
EX-21	712,000	--	--	921
Injection				
IN-18 + 19	50,790	38	6.4 - 7.2	923
IN-16	112,690	38	6.4 - 7.2	920
Trenches 2+3	453,430	38	7.2 - 7.6	715
Trench 1 + IN 17	469,190	38	7.0 - 7.8	905
IN 14 + 15	353,640	38	7.2 - 8.4	901

Treatment System

Totalizer (digital): 918,290
1,158 gal

GAC Lead Pressure: 0 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 56 psi
 Bag Filter 2 Pressure: 32 psi
 Mixing Tank pH:
 Holding Tank pH:

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
0 cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 8/16/17

Field Tech: ALT

Time: 6:00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	711,150	--	--	
EX-22	556,000	--	--	
EX-21	721,100	--	--	
Injection				
IN-18 + 19	51,430	38	6.8	
IN-16	114,140	34	6.8	
Trenches 2+3	461,720	36	7.0	
Trench 1 + IN 17	480,000	38	7.2	
IN 14 + 15	358,500	36	8.0	

Treatment System

Totalizer (digital): 1,537,480 gal

GAC Lead Pressure: 0 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 54 psi
 Bag Filter 2 Pressure: 30 psi
 Mixing Tank pH: —
 Holding Tank pH: —

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
0 cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 8 / 30 / 17

Field Tech: Peter Sims ; Helen Hild

Time: 08 : 09:15

HH

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	721950	--	--	
EX-22	567230	--	--	
EX-21	731160	--	--	
Injection				
IN-18 + 19	52010 9	HH 7.37	7.0	
IN-16	115750	38	7.4	
Trenches 2+3	467390	36	8.8	
Trench 1 + IN 17	485790	36	6.4	
IN 14 + 15	361960	38	8.2	

Treatment System

Totalizer: 1568170 gal

GAC Lead Pressure: 12 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 37 psi
 Bag Filter 2 Pressure: 26 psi
 Mixing Tank pH _____
 Holding Tank pH _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Check Dissolved Oxygen Pump Circuit Breaker
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
_____ gal EZT-EA biosurfactant
_____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 7/13/17

Field Tech: ALT

Time: 13:30

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	732,720	--	--	
EX-22	577,390	--	--	
EX-21	741,580	--	--	
Injection				
IN-18 + 19	52,658	38	7.6	
IN-16	117,400	38	8.2	
Trenches 2+3	474,740	38	8.0	
Trench 1 + IN 17	493,750	38	8.8	
IN 14 + 15	366,200	39	9.4	

Treatment System

Totalizer (digital): 1,593,810 gal

GAC Lead Pressure: 0 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 52 psi
 Bag Filter 2 Pressure: 36 psi
 Mixing Tank pH: 0
 Holding Tank pH: 0

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
0 cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 9/27/2017

Field Tech: ALT

Time: 10:45

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	742,580	--	--	
EX-22	586,630	--	--	
EX-21	751,160	--	--	
Injection				
IN-18 + 19	53,220	38	8.0	
IN-16	118,890	40	7.4	
Trenches 2+3	481,340	40	7.8	
Trench 1 + IN 17	501,310	38	8.0	
IN 14 + 15	370,130	38	8.0	

Treatment System

Totalizer (digital): 1,617,680 gal

GAC Lead Pressure: 0 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 32 psi
 Bag Filter 2 Pressure: 36 psi
 Mixing Tank pH: —
 Holding Tank pH: —

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
0 cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

APPENDIX C

LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-79384-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
5/15/2017 11:27:02 AM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	25

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Job ID: 720-79384-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-79384-1**

Comments

No additional comments.

Receipt

The samples were received on 5/9/2017 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: INF

Lab Sample ID: 720-79384-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	9.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	63		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	210		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: EFF

Lab Sample ID: 720-79384-2

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-79384-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: INF
Date Collected: 04/28/17 12:18
Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/12/17 19:09	1
Acetone	ND		50		ug/L			05/12/17 19:09	1
Benzene	4.8		0.50		ug/L			05/12/17 19:09	1
Dichlorobromomethane	ND		0.50		ug/L			05/12/17 19:09	1
Bromobenzene	ND		1.0		ug/L			05/12/17 19:09	1
Chlorobromomethane	ND		1.0		ug/L			05/12/17 19:09	1
Bromoform	ND		1.0		ug/L			05/12/17 19:09	1
Bromomethane	ND		1.0		ug/L			05/12/17 19:09	1
2-Butanone (MEK)	ND		50		ug/L			05/12/17 19:09	1
n-Butylbenzene	ND		1.0		ug/L			05/12/17 19:09	1
sec-Butylbenzene	ND		1.0		ug/L			05/12/17 19:09	1
tert-Butylbenzene	ND		1.0		ug/L			05/12/17 19:09	1
Carbon disulfide	ND		5.0		ug/L			05/12/17 19:09	1
Carbon tetrachloride	ND		0.50		ug/L			05/12/17 19:09	1
Chlorobenzene	ND		0.50		ug/L			05/12/17 19:09	1
Chloroethane	ND		1.0		ug/L			05/12/17 19:09	1
Chloroform	ND		1.0		ug/L			05/12/17 19:09	1
Chloromethane	ND		1.0		ug/L			05/12/17 19:09	1
2-Chlorotoluene	ND		0.50		ug/L			05/12/17 19:09	1
4-Chlorotoluene	ND		0.50		ug/L			05/12/17 19:09	1
Chlorodibromomethane	ND		0.50		ug/L			05/12/17 19:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:09	1
1,3-Dichloropropane	ND		1.0		ug/L			05/12/17 19:09	1
1,1-Dichloropropene	ND		0.50		ug/L			05/12/17 19:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/12/17 19:09	1
Ethylene Dibromide	ND		0.50		ug/L			05/12/17 19:09	1
Dibromomethane	ND		0.50		ug/L			05/12/17 19:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/12/17 19:09	1
1,1-Dichloroethane	ND		0.50		ug/L			05/12/17 19:09	1
1,2-Dichloroethane	ND		0.50		ug/L			05/12/17 19:09	1
1,1-Dichloroethene	ND		0.50		ug/L			05/12/17 19:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 19:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 19:09	1
1,2-Dichloropropane	ND		0.50		ug/L			05/12/17 19:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 19:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 19:09	1
Ethylbenzene	ND		0.50		ug/L			05/12/17 19:09	1
Hexachlorobutadiene	ND		1.0		ug/L			05/12/17 19:09	1
2-Hexanone	ND		50		ug/L			05/12/17 19:09	1
Isopropylbenzene	ND		0.50		ug/L			05/12/17 19:09	1
4-Isopropyltoluene	ND		1.0		ug/L			05/12/17 19:09	1
Methylene Chloride	ND		5.0		ug/L			05/12/17 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/12/17 19:09	1
Naphthalene	1.4		1.0		ug/L			05/12/17 19:09	1
N-Propylbenzene	ND		1.0		ug/L			05/12/17 19:09	1
Styrene	ND		0.50		ug/L			05/12/17 19:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 19:09	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: INF

Lab Sample ID: 720-79384-1

Date Collected: 04/28/17 12:18

Matrix: Water

Date Received: 05/09/17 14:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 19:09	1
Tetrachloroethene	ND		0.50		ug/L			05/12/17 19:09	1
Toluene	1.9		0.50		ug/L			05/12/17 19:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/12/17 19:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/12/17 19:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/12/17 19:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/12/17 19:09	1
Trichloroethene	ND		0.50		ug/L			05/12/17 19:09	1
Trichlorofluoromethane	ND		1.0		ug/L			05/12/17 19:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/12/17 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/12/17 19:09	1
1,2,4-Trimethylbenzene	2.0		0.50		ug/L			05/12/17 19:09	1
1,3,5-Trimethylbenzene	9.0		0.50		ug/L			05/12/17 19:09	1
Vinyl acetate	ND		10		ug/L			05/12/17 19:09	1
Vinyl chloride	ND		0.50		ug/L			05/12/17 19:09	1
Xylenes, Total	63		1.0		ug/L			05/12/17 19:09	1
2,2-Dichloropropane	ND		0.50		ug/L			05/12/17 19:09	1
Gasoline Range Organics (GRO)	210		50		ug/L			05/12/17 19:09	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		05/12/17 19:09	1
1,2-Dichloroethane-d4 (Surr)	91		72 - 130		05/12/17 19:09	1
Toluene-d8 (Surr)	94		70 - 130		05/12/17 19:09	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: EFF
Date Collected: 04/28/17 12:22
Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/12/17 16:14	1
Acetone	ND		50		ug/L			05/12/17 16:14	1
Benzene	ND		0.50		ug/L			05/12/17 16:14	1
Dichlorobromomethane	ND		0.50		ug/L			05/12/17 16:14	1
Bromobenzene	ND		1.0		ug/L			05/12/17 16:14	1
Chlorobromomethane	ND		1.0		ug/L			05/12/17 16:14	1
Bromoform	ND		1.0		ug/L			05/12/17 16:14	1
Bromomethane	ND		1.0		ug/L			05/12/17 16:14	1
2-Butanone (MEK)	ND		50		ug/L			05/12/17 16:14	1
n-Butylbenzene	ND		1.0		ug/L			05/12/17 16:14	1
sec-Butylbenzene	ND		1.0		ug/L			05/12/17 16:14	1
tert-Butylbenzene	ND		1.0		ug/L			05/12/17 16:14	1
Carbon disulfide	ND		5.0		ug/L			05/12/17 16:14	1
Carbon tetrachloride	ND		0.50		ug/L			05/12/17 16:14	1
Chlorobenzene	ND		0.50		ug/L			05/12/17 16:14	1
Chloroethane	ND		1.0		ug/L			05/12/17 16:14	1
Chloroform	ND		1.0		ug/L			05/12/17 16:14	1
Chloromethane	ND		1.0		ug/L			05/12/17 16:14	1
2-Chlorotoluene	ND		0.50		ug/L			05/12/17 16:14	1
4-Chlorotoluene	ND		0.50		ug/L			05/12/17 16:14	1
Chlorodibromomethane	ND		0.50		ug/L			05/12/17 16:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/12/17 16:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/12/17 16:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/12/17 16:14	1
1,3-Dichloropropane	ND		1.0		ug/L			05/12/17 16:14	1
1,1-Dichloropropane	ND		0.50		ug/L			05/12/17 16:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/12/17 16:14	1
Ethylene Dibromide	ND		0.50		ug/L			05/12/17 16:14	1
Dibromomethane	ND		0.50		ug/L			05/12/17 16:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/12/17 16:14	1
1,1-Dichloroethane	ND		0.50		ug/L			05/12/17 16:14	1
1,2-Dichloroethane	ND		0.50		ug/L			05/12/17 16:14	1
1,1-Dichloroethene	ND		0.50		ug/L			05/12/17 16:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 16:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 16:14	1
1,2-Dichloropropane	ND		0.50		ug/L			05/12/17 16:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 16:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 16:14	1
Ethylbenzene	ND		0.50		ug/L			05/12/17 16:14	1
Hexachlorobutadiene	ND		1.0		ug/L			05/12/17 16:14	1
2-Hexanone	ND		50		ug/L			05/12/17 16:14	1
Isopropylbenzene	ND		0.50		ug/L			05/12/17 16:14	1
4-Isopropyltoluene	ND		1.0		ug/L			05/12/17 16:14	1
Methylene Chloride	ND		5.0		ug/L			05/12/17 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/12/17 16:14	1
Naphthalene	ND		1.0		ug/L			05/12/17 16:14	1
N-Propylbenzene	ND		1.0		ug/L			05/12/17 16:14	1
Styrene	ND		0.50		ug/L			05/12/17 16:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 16:14	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: EFF
Date Collected: 04/28/17 12:22
Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 16:14	1
Tetrachloroethene	ND		0.50		ug/L			05/12/17 16:14	1
Toluene	ND		0.50		ug/L			05/12/17 16:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/12/17 16:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/12/17 16:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/12/17 16:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/12/17 16:14	1
Trichloroethene	ND		0.50		ug/L			05/12/17 16:14	1
Trichlorofluoromethane	ND		1.0		ug/L			05/12/17 16:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/12/17 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/12/17 16:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/12/17 16:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/12/17 16:14	1
Vinyl acetate	ND		10		ug/L			05/12/17 16:14	1
Vinyl chloride	ND		0.50		ug/L			05/12/17 16:14	1
Xylenes, Total	ND		1.0		ug/L			05/12/17 16:14	1
2,2-Dichloropropane	ND		0.50		ug/L			05/12/17 16:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/12/17 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		05/12/17 16:14	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		05/12/17 16:14	1
Toluene-d8 (Surr)	94		70 - 130		05/12/17 16:14	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: GAC
Date Collected: 04/28/17 12:20
Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/12/17 19:39	1
Acetone	ND		50		ug/L			05/12/17 19:39	1
Benzene	ND		0.50		ug/L			05/12/17 19:39	1
Dichlorobromomethane	ND		0.50		ug/L			05/12/17 19:39	1
Bromobenzene	ND		1.0		ug/L			05/12/17 19:39	1
Chlorobromomethane	ND		1.0		ug/L			05/12/17 19:39	1
Bromoform	ND		1.0		ug/L			05/12/17 19:39	1
Bromomethane	ND		1.0		ug/L			05/12/17 19:39	1
2-Butanone (MEK)	ND		50		ug/L			05/12/17 19:39	1
n-Butylbenzene	ND		1.0		ug/L			05/12/17 19:39	1
sec-Butylbenzene	ND		1.0		ug/L			05/12/17 19:39	1
tert-Butylbenzene	ND		1.0		ug/L			05/12/17 19:39	1
Carbon disulfide	ND		5.0		ug/L			05/12/17 19:39	1
Carbon tetrachloride	ND		0.50		ug/L			05/12/17 19:39	1
Chlorobenzene	ND		0.50		ug/L			05/12/17 19:39	1
Chloroethane	ND		1.0		ug/L			05/12/17 19:39	1
Chloroform	ND		1.0		ug/L			05/12/17 19:39	1
Chloromethane	ND		1.0		ug/L			05/12/17 19:39	1
2-Chlorotoluene	ND		0.50		ug/L			05/12/17 19:39	1
4-Chlorotoluene	ND		0.50		ug/L			05/12/17 19:39	1
Chlorodibromomethane	ND		0.50		ug/L			05/12/17 19:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/12/17 19:39	1
1,3-Dichloropropane	ND		1.0		ug/L			05/12/17 19:39	1
1,1-Dichloropropene	ND		0.50		ug/L			05/12/17 19:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/12/17 19:39	1
Ethylene Dibromide	ND		0.50		ug/L			05/12/17 19:39	1
Dibromomethane	ND		0.50		ug/L			05/12/17 19:39	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/12/17 19:39	1
1,1-Dichloroethane	ND		0.50		ug/L			05/12/17 19:39	1
1,2-Dichloroethane	ND		0.50		ug/L			05/12/17 19:39	1
1,1-Dichloroethene	ND		0.50		ug/L			05/12/17 19:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 19:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 19:39	1
1,2-Dichloropropane	ND		0.50		ug/L			05/12/17 19:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 19:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 19:39	1
Ethylbenzene	ND		0.50		ug/L			05/12/17 19:39	1
Hexachlorobutadiene	ND		1.0		ug/L			05/12/17 19:39	1
2-Hexanone	ND		50		ug/L			05/12/17 19:39	1
Isopropylbenzene	ND		0.50		ug/L			05/12/17 19:39	1
4-Isopropyltoluene	ND		1.0		ug/L			05/12/17 19:39	1
Methylene Chloride	ND		5.0		ug/L			05/12/17 19:39	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/12/17 19:39	1
Naphthalene	ND		1.0		ug/L			05/12/17 19:39	1
N-Propylbenzene	ND		1.0		ug/L			05/12/17 19:39	1
Styrene	ND		0.50		ug/L			05/12/17 19:39	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 19:39	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: GAC

Lab Sample ID: 720-79384-3

Date Collected: 04/28/17 12:20

Matrix: Water

Date Received: 05/09/17 14:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 19:39	1
Tetrachloroethene	ND		0.50		ug/L			05/12/17 19:39	1
Toluene	ND		0.50		ug/L			05/12/17 19:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/12/17 19:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/12/17 19:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/12/17 19:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/12/17 19:39	1
Trichloroethene	ND		0.50		ug/L			05/12/17 19:39	1
Trichlorofluoromethane	ND		1.0		ug/L			05/12/17 19:39	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/12/17 19:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/12/17 19:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/12/17 19:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/12/17 19:39	1
Vinyl acetate	ND		10		ug/L			05/12/17 19:39	1
Vinyl chloride	ND		0.50		ug/L			05/12/17 19:39	1
Xylenes, Total	ND		1.0		ug/L			05/12/17 19:39	1
2,2-Dichloropropane	ND		0.50		ug/L			05/12/17 19:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/12/17 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		67 - 130		05/12/17 19:39	1
1,2-Dichloroethane-d4 (Surr)	90		72 - 130		05/12/17 19:39	1
Toluene-d8 (Surr)	92		70 - 130		05/12/17 19:39	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-222875/4
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/12/17 12:20	1
Acetone	ND		50		ug/L			05/12/17 12:20	1
Benzene	ND		0.50		ug/L			05/12/17 12:20	1
Dichlorobromomethane	ND		0.50		ug/L			05/12/17 12:20	1
Bromobenzene	ND		1.0		ug/L			05/12/17 12:20	1
Chlorobromomethane	ND		1.0		ug/L			05/12/17 12:20	1
Bromoform	ND		1.0		ug/L			05/12/17 12:20	1
Bromomethane	ND		1.0		ug/L			05/12/17 12:20	1
2-Butanone (MEK)	ND		50		ug/L			05/12/17 12:20	1
n-Butylbenzene	ND		1.0		ug/L			05/12/17 12:20	1
sec-Butylbenzene	ND		1.0		ug/L			05/12/17 12:20	1
tert-Butylbenzene	ND		1.0		ug/L			05/12/17 12:20	1
Carbon disulfide	ND		5.0		ug/L			05/12/17 12:20	1
Carbon tetrachloride	ND		0.50		ug/L			05/12/17 12:20	1
Chlorobenzene	ND		0.50		ug/L			05/12/17 12:20	1
Chloroethane	ND		1.0		ug/L			05/12/17 12:20	1
Chloroform	ND		1.0		ug/L			05/12/17 12:20	1
Chloromethane	ND		1.0		ug/L			05/12/17 12:20	1
2-Chlorotoluene	ND		0.50		ug/L			05/12/17 12:20	1
4-Chlorotoluene	ND		0.50		ug/L			05/12/17 12:20	1
Chlorodibromomethane	ND		0.50		ug/L			05/12/17 12:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/12/17 12:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/12/17 12:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/12/17 12:20	1
1,3-Dichloropropane	ND		1.0		ug/L			05/12/17 12:20	1
1,1-Dichloropropene	ND		0.50		ug/L			05/12/17 12:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/12/17 12:20	1
Ethylene Dibromide	ND		0.50		ug/L			05/12/17 12:20	1
Dibromomethane	ND		0.50		ug/L			05/12/17 12:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/12/17 12:20	1
1,1-Dichloroethane	ND		0.50		ug/L			05/12/17 12:20	1
1,2-Dichloroethane	ND		0.50		ug/L			05/12/17 12:20	1
1,1-Dichloroethene	ND		0.50		ug/L			05/12/17 12:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 12:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/12/17 12:20	1
1,2-Dichloropropane	ND		0.50		ug/L			05/12/17 12:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 12:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/12/17 12:20	1
Ethylbenzene	ND		0.50		ug/L			05/12/17 12:20	1
Hexachlorobutadiene	ND		1.0		ug/L			05/12/17 12:20	1
2-Hexanone	ND		50		ug/L			05/12/17 12:20	1
Isopropylbenzene	ND		0.50		ug/L			05/12/17 12:20	1
4-Isopropyltoluene	ND		1.0		ug/L			05/12/17 12:20	1
Methylene Chloride	ND		5.0		ug/L			05/12/17 12:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/12/17 12:20	1
Naphthalene	ND		1.0		ug/L			05/12/17 12:20	1
N-Propylbenzene	ND		1.0		ug/L			05/12/17 12:20	1
Styrene	ND		0.50		ug/L			05/12/17 12:20	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-222875/4
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 12:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/12/17 12:20	1
Tetrachloroethene	ND		0.50		ug/L			05/12/17 12:20	1
Toluene	ND		0.50		ug/L			05/12/17 12:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/12/17 12:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/12/17 12:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/12/17 12:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/12/17 12:20	1
Trichloroethene	ND		0.50		ug/L			05/12/17 12:20	1
Trichlorofluoromethane	ND		1.0		ug/L			05/12/17 12:20	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/12/17 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/12/17 12:20	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/12/17 12:20	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/12/17 12:20	1
Vinyl acetate	ND		10		ug/L			05/12/17 12:20	1
Vinyl chloride	ND		0.50		ug/L			05/12/17 12:20	1
Xylenes, Total	ND		1.0		ug/L			05/12/17 12:20	1
2,2-Dichloropropane	ND		0.50		ug/L			05/12/17 12:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/12/17 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		05/12/17 12:20	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		05/12/17 12:20	1
Toluene-d8 (Surr)	93		70 - 130		05/12/17 12:20	1

Lab Sample ID: LCS 720-222875/5
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.1		ug/L		100	62 - 130
Acetone	125	136		ug/L		109	26 - 180
Benzene	25.0	25.0		ug/L		100	79 - 130
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	22.2		ug/L		89	68 - 136
Bromomethane	25.0	25.0		ug/L		100	43 - 151
2-Butanone (MEK)	125	126		ug/L		101	54 - 153
n-Butylbenzene	25.0	25.1		ug/L		100	70 - 142
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 134
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135
Carbon disulfide	25.0	24.1		ug/L		96	68 - 146
Carbon tetrachloride	25.0	23.9		ug/L		96	70 - 146
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	25.8		ug/L		103	62 - 138
Chloroform	25.0	23.3		ug/L		93	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-222875/5

Matrix: Water

Analysis Batch: 222875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	26.0		ug/L		104	52 - 175
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
Chlorodibromomethane	25.0	22.5		ug/L		90	70 - 145
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 136
Ethylene Dibromide	25.0	23.1		ug/L		92	70 - 130
Dibromomethane	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	24.6		ug/L		98	32 - 158
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	23.5		ug/L		94	61 - 132
1,1-Dichloroethene	25.0	23.5		ug/L		94	64 - 128
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	68 - 130
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	24.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	22.3		ug/L		89	70 - 140
Ethylbenzene	25.0	24.7		ug/L		99	80 - 120
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130
2-Hexanone	125	119		ug/L		95	60 - 164
Isopropylbenzene	25.0	25.1		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 147
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	50 - 155
Naphthalene	25.0	24.7		ug/L		99	50 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
Styrene	25.0	25.5		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		103	70 - 130
Tetrachloroethene	25.0	23.6		ug/L		94	70 - 130
Toluene	25.0	25.1		ug/L		101	78 - 120
1,2,3-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	66 - 132
1,2,3-Trichloropropane	25.0	25.4		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.2		ug/L		97	42 - 162
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 132
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
Vinyl acetate	25.0	24.9		ug/L		99	43 - 163
Vinyl chloride	25.0	26.3		ug/L		105	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-222875/5
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	70 - 142
o-Xylene	25.0	24.3		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCS 720-222875/7
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	446		ug/L		89	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-222875/6
Matrix: Water
Analysis Batch: 222875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.3		ug/L		97	62 - 130	3	20
Acetone	125	139		ug/L		111	26 - 180	2	30
Benzene	25.0	24.9		ug/L		100	79 - 130	0	20
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130	1	20
Bromobenzene	25.0	24.9		ug/L		99	70 - 130	0	20
Chlorobromomethane	25.0	23.5		ug/L		94	70 - 130	0	20
Bromoform	25.0	22.2		ug/L		89	68 - 136	0	20
Bromomethane	25.0	25.0		ug/L		100	43 - 151	0	20
2-Butanone (MEK)	125	128		ug/L		102	54 - 153	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 142	1	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 134	2	20
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 135	2	20
Carbon disulfide	25.0	24.4		ug/L		97	68 - 146	1	20
Carbon tetrachloride	25.0	24.4		ug/L		97	70 - 146	2	20
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	1	20
Chloroethane	25.0	26.1		ug/L		104	62 - 138	1	20
Chloroform	25.0	23.4		ug/L		94	70 - 130	0	20
Chloromethane	25.0	26.0		ug/L		104	52 - 175	0	20
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	24.9		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	22.2		ug/L		89	70 - 145	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-222875/6

Matrix: Water

Analysis Batch: 222875

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	0	20
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 136	1	20
Ethylene Dibromide	25.0	22.8		ug/L		91	70 - 130	1	20
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	3	20
Dichlorodifluoromethane	25.0	24.8		ug/L		99	32 - 158	1	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
1,2-Dichloroethane	25.0	22.9		ug/L		92	61 - 132	2	20
1,1-Dichloroethene	25.0	23.6		ug/L		95	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	68 - 130	1	20
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 140	1	20
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120	1	20
Hexachlorobutadiene	25.0	25.6		ug/L		103	70 - 130	3	20
2-Hexanone	125	117		ug/L		93	60 - 164	2	20
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130	2	20
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130	1	20
Methylene Chloride	25.0	23.5		ug/L		94	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	50 - 155	3	20
Naphthalene	25.0	25.1		ug/L		100	50 - 130	1	20
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Styrene	25.0	25.6		ug/L		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	0	20
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	3	20
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130	1	20
Toluene	25.0	25.2		ug/L		101	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130	1	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	66 - 132	5	20
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		101	70 - 130	1	20
Vinyl acetate	25.0	24.2		ug/L		97	43 - 163	3	20
Vinyl chloride	25.0	26.8		ug/L		107	54 - 135	2	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		99	70 - 142	1	20
o-Xylene	25.0	24.6		ug/L		99	70 - 130	1	20
2,2-Dichloropropane	25.0	24.5		ug/L		98	70 - 140	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-222875/6

Matrix: Water

Analysis Batch: 222875

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-222875/8

Matrix: Water

Analysis Batch: 222875

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Gasoline Range Organics (GRO) -C5-C12	500	438		ug/L		88	71 - 125	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	96		70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

GC/MS VOA

Analysis Batch: 222875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79384-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-79384-2	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-79384-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-222875/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-222875/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-222875/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-222875/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-222875/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Client Sample ID: INF

Date Collected: 04/28/17 12:18

Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	222875	05/12/17 19:09	JRM	TAL PLS

Client Sample ID: EFF

Date Collected: 04/28/17 12:22

Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	222875	05/12/17 16:14	JRM	TAL PLS

Client Sample ID: GAC

Date Collected: 04/28/17 12:20

Date Received: 05/09/17 14:40

Lab Sample ID: 720-79384-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	222875	05/12/17 19:39	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-79384-1	INF	Water	04/28/17 12:18	05/09/17 14:40
720-79384-2	EFF	Water	04/28/17 12:22	05/09/17 14:40
720-79384-3	GAC	Water	04/28/17 12:20	05/09/17 14:40

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
phone 925.484.1919 fax

720-79384

Chain of Custody Record

175789

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact

Ninyo & Moore

1956 Webster Street, Ste. 400

Oakland, CA 946501

510-343-3000 Phone

510-343-3001 FAX

Project Name: Chun

Site:

P O # 401896004

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Peter Sims

Tel/Fax: Analysis Turnaround Time

CALENDAR DAYS WORKING DAYS

TAT if different from Below 3 days

2 weeks

1 week

2 days

1 day

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

of Cont.

Filtered Sample (Y/N)

Perform MS / MSD (Y/N)

Title 22 Metals by EPA 6010/7471

TPHd and TPHmo by EPA 8015B

VOCs and TPHg by EPA 8260B

OCPs by EPA 8081

Carrier:

COC No: 1 of 1 COCs

Sampler: 1

For Lab Use Only:

Walk-in Client Lab Sampling:

Job / SDG No

Sample Specific Notes:

INF

4/28/17

1218

GW

3

X

X

X

X

X

X

X

X

X

EFF

1222

GW

3

X

X

X

X

X

X

X

X

X

GAC

1220

GW

3

X

X

X

X

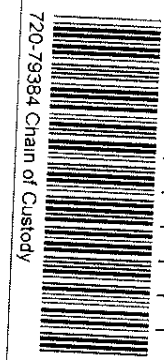
X

X

X

X

X



Preservation Used: 1= Ice, 2= HCI, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

3.1°C

Custody Seals Intact Yes No

Custody Seal No.:

Company

5/9/17

1335

Received by:

Company

TA

5/9/17

1335

Therm ID No.:

5/9/17 1335

Relinquished by:

Company

TA

5/9/17

1440

Received in Laboratory by:

Company

TA

5/9/17

1440

Received in Laboratory by:

Company

TA

5/9/17

1440

Date/Time:

5/9/17 1440

Relinquished by:

Company

TA

5/9/17

1440

Received in Laboratory by:

Company

TA

5/9/17

1440

Received in Laboratory by:

Company

TA

5/9/17

1440

Date/Time:

5/9/17 1440

TestAmerica Pleasanton
 1220 Quarry Lane
 Pleasanton, CA 94566
 phone 925.484.1919 fax

720-79384

Chain of Custody Record

175789

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc

Client Contact

Ninyo & Moore
 1956 Webster Street, Ste. 400
 Oakland, CA 946501

Phone 510-343-3000
 FAX 510-343-3001

Project Name **Chun**
 Site: _____

P.O.# **401896004**

Project Manager: **Peter Sims**
 Tel/Fax: _____

Regulatory Program: DW NPDES RCRA Other: _____

Site Contact: **Peter Sims**
 Lab Contact: _____

Date: **5/9/17**
 Carrier: _____

Analysis Turnaround Time

CALENDAR DAYS WORKING DAYS
 TAT if different from Below: **3 days**

Sample Identification

Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix # of Cont.

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
4/28/17	1218	G	GW	3
EFF	1222	G	GW	3
GAC	1220	G	GW	3

Filtered Sample (Y/N)
 Perform MS / MSD (Y/N)
 Title 22 Metals by EPA 6010/7471
 TPHd and TPHmo by EPA 8015B
 VOCs and TPHg by EPA 8260B
 OCPs by EPA 8081

Sample Specific Notes
720-79384 Chain of Custody



Preservation Used: 1= Ice, 2= HCI, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact Yes No

Custody Seal No. _____

Cooler Temp (°C) Obs'd: _____

Therm ID No.: _____

Relinquished by: _____

Company: **N/M**

Date/Time: **5/9/17 1335**

Received by: _____

Company: **TA** Date/Time: **5/9/17 1335**

Relinquished by: _____

Company: **TA**

Date/Time: **5/9/17 1440**

Received in Laboratory by: _____

Company: **TA** Date/Time: **5/9/17 1440**

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79384-1

Login Number: 79384
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-79697-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
5/31/2017 12:46:44 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	26
Lab Chronicle	27
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Job ID: 720-79697-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-79697-1

Comments

No additional comments.

Receipt

The samples were received on 5/24/2017 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-433332 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 433332 recovered outside control limits for the following analytes: Carbon disulfide, Benzene, Methylene Chloride and trans-1,2-Dichloroethene.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 433517 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: INF

Lab Sample ID: 720-79697-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	440		50		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	13		0.50		ug/L	1		8260B	Total/NA
Benzene	10		0.50		ug/L	1		8260B	Total/NA
Toluene	5.0		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	40		1.5		ug/L	1		8260B	Total/NA

Client Sample ID: GAC

Lab Sample ID: 720-79697-2

No Detections.

Client Sample ID: EFF

Lab Sample ID: 720-79697-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: INF

Date Collected: 05/23/17 12:20

Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 17:04	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 17:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 17:04	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 17:04	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 17:04	1
GRO (C4-C12)	440		50		ug/L			05/30/17 17:04	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 17:04	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 17:04	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 17:04	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 17:04	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 17:04	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 17:04	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 17:04	1
1,3,5-Trimethylbenzene	13		0.50		ug/L			05/30/17 17:04	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 17:04	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 17:04	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 17:04	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 17:04	1
2-Hexanone	ND		5.0		ug/L			05/30/17 17:04	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 17:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 17:04	1
Acetone	ND		5.0		ug/L			05/30/17 17:04	1
Benzene	10		0.50		ug/L			05/30/17 17:04	1
Bromobenzene	ND		0.50		ug/L			05/30/17 17:04	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 17:04	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 17:04	1
Bromoform	ND		0.50		ug/L			05/30/17 17:04	1
Bromomethane	ND		0.50		ug/L			05/30/17 17:04	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 17:04	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 17:04	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 17:04	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 17:04	1
Chloroethane	ND		0.50		ug/L			05/30/17 17:04	1
Chloroform	ND		0.50		ug/L			05/30/17 17:04	1
Chloromethane	ND		0.50		ug/L			05/30/17 17:04	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 17:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 17:04	1
Dibromomethane	ND		0.50		ug/L			05/30/17 17:04	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 17:04	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 17:04	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 17:04	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 17:04	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: INF

Lab Sample ID: 720-79697-1

Date Collected: 05/23/17 12:20

Matrix: Water

Date Received: 05/24/17 16:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 17:04	1
Naphthalene	ND		5.0		ug/L			05/30/17 17:04	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 17:04	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
Styrene	ND		0.50		ug/L			05/30/17 17:04	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 17:04	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 17:04	1
Toluene	5.0		0.50		ug/L			05/30/17 17:04	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 17:04	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 17:04	1
Trichloroethene	ND		0.50		ug/L			05/30/17 17:04	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 17:04	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 17:04	1
Xylenes, Total	40		1.5		ug/L			05/30/17 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		05/30/17 17:04	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 17:04	1
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 17:04	1
Toluene-d8 (Surr)	98		70 - 130		05/30/17 17:04	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		05/30/17 17:04	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 17:04	1
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 17:04	1
Toluene-d8 (Surr)	98		70 - 130		05/30/17 17:04	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: GAC

Date Collected: 05/23/17 12:22

Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 01:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/28/17 01:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 01:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/28/17 01:02	1
1,1-Dichloroethane	ND		0.50		ug/L			05/28/17 01:02	1
GRO (C4-C12)	ND		50		ug/L			05/28/17 01:02	1
1,1-Dichloroethene	ND		0.50		ug/L			05/28/17 01:02	1
1,1-Dichloropropene	ND		0.50		ug/L			05/28/17 01:02	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/28/17 01:02	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/28/17 01:02	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/28/17 01:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,2-Dichloroethane	ND		0.50		ug/L			05/28/17 01:02	1
1,2-Dichloropropane	ND		0.50		ug/L			05/28/17 01:02	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
1,3-Dichloropropane	ND		0.50		ug/L			05/28/17 01:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
2,2-Dichloropropane	ND		0.50		ug/L			05/28/17 01:02	1
2-Butanone (MEK)	ND		50		ug/L			05/28/17 01:02	1
2-Chlorotoluene	ND		0.50		ug/L			05/28/17 01:02	1
2-Hexanone	ND		5.0		ug/L			05/28/17 01:02	1
4-Chlorotoluene	ND		0.50		ug/L			05/28/17 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/28/17 01:02	1
Acetone	ND		5.0		ug/L			05/28/17 01:02	1
Benzene	ND *		0.50		ug/L			05/28/17 01:02	1
Bromobenzene	ND		0.50		ug/L			05/28/17 01:02	1
Chlorobromomethane	ND		0.50		ug/L			05/28/17 01:02	1
Dichlorobromomethane	ND		0.50		ug/L			05/28/17 01:02	1
Bromoform	ND		0.50		ug/L			05/28/17 01:02	1
Bromomethane	ND		0.50		ug/L			05/28/17 01:02	1
Carbon disulfide	ND *		0.50		ug/L			05/28/17 01:02	1
Carbon tetrachloride	ND		0.50		ug/L			05/28/17 01:02	1
Chlorobenzene	ND		0.50		ug/L			05/28/17 01:02	1
Chlorodibromomethane	ND		0.50		ug/L			05/28/17 01:02	1
Chloroethane	ND		0.50		ug/L			05/28/17 01:02	1
Chloroform	ND		0.50		ug/L			05/28/17 01:02	1
Chloromethane	ND		0.50		ug/L			05/28/17 01:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/28/17 01:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 01:02	1
Dibromomethane	ND		0.50		ug/L			05/28/17 01:02	1
Dichlorodifluoromethane	ND *		0.50		ug/L			05/28/17 01:02	1
Ethylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
Hexachlorobutadiene	ND		1.0		ug/L			05/28/17 01:02	1
Isopropylbenzene	ND		1.0		ug/L			05/28/17 01:02	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/28/17 01:02	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: GAC

Lab Sample ID: 720-79697-2

Date Collected: 05/23/17 12:22

Matrix: Water

Date Received: 05/24/17 16:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	*	5.0		ug/L			05/28/17 01:02	1
Naphthalene	ND		5.0		ug/L			05/28/17 01:02	1
n-Butylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
N-Propylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
4-Isopropyltoluene	ND		0.50		ug/L			05/28/17 01:02	1
sec-Butylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
Styrene	ND		0.50		ug/L			05/28/17 01:02	1
tert-Butylbenzene	ND		0.50		ug/L			05/28/17 01:02	1
Tetrachloroethene	ND		0.50		ug/L			05/28/17 01:02	1
Toluene	ND		0.50		ug/L			05/28/17 01:02	1
trans-1,2-Dichloroethene	ND	*	0.50		ug/L			05/28/17 01:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 01:02	1
Trichloroethene	ND		0.50		ug/L			05/28/17 01:02	1
Trichlorofluoromethane	ND		0.50		ug/L			05/28/17 01:02	1
Vinyl chloride	ND		0.50		ug/L			05/28/17 01:02	1
Xylenes, Total	ND		1.5		ug/L			05/28/17 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		05/28/17 01:02	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/28/17 01:02	1
Dibromofluoromethane (Surr)	97		70 - 130		05/28/17 01:02	1
Toluene-d8 (Surr)	100		70 - 130		05/28/17 01:02	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		05/28/17 01:02	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/28/17 01:02	1
Dibromofluoromethane (Surr)	97		70 - 130		05/28/17 01:02	1
Toluene-d8 (Surr)	100		70 - 130		05/28/17 01:02	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: EFF
Date Collected: 05/23/17 12:24
Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 21:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 21:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 21:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 21:16	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 21:16	1
GRO (C4-C12)	ND		50		ug/L			05/27/17 21:16	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 21:16	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 21:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 21:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 21:16	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 21:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 21:16	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 21:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 21:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
2,2-Dichloropropane	ND	F1	0.50		ug/L			05/27/17 21:16	1
2-Butanone (MEK)	ND		50		ug/L			05/27/17 21:16	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 21:16	1
2-Hexanone	ND		5.0		ug/L			05/27/17 21:16	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 21:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 21:16	1
Acetone	ND		5.0		ug/L			05/27/17 21:16	1
Benzene	ND	*	0.50		ug/L			05/27/17 21:16	1
Bromobenzene	ND		0.50		ug/L			05/27/17 21:16	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 21:16	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 21:16	1
Bromoform	ND		0.50		ug/L			05/27/17 21:16	1
Bromomethane	ND		0.50		ug/L			05/27/17 21:16	1
Carbon disulfide	ND	*	0.50		ug/L			05/27/17 21:16	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 21:16	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 21:16	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 21:16	1
Chloroethane	ND		0.50		ug/L			05/27/17 21:16	1
Chloroform	ND		0.50		ug/L			05/27/17 21:16	1
Chloromethane	ND		0.50		ug/L			05/27/17 21:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 21:16	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 21:16	1
Dibromomethane	ND		0.50		ug/L			05/27/17 21:16	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			05/27/17 21:16	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 21:16	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 21:16	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 21:16	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: EFF
Date Collected: 05/23/17 12:24
Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	* F1	5.0		ug/L			05/27/17 21:16	1
Naphthalene	ND		5.0		ug/L			05/27/17 21:16	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 21:16	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
Styrene	ND	F1	0.50		ug/L			05/27/17 21:16	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 21:16	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 21:16	1
Toluene	ND		0.50		ug/L			05/27/17 21:16	1
trans-1,2-Dichloroethene	ND	*	0.50		ug/L			05/27/17 21:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 21:16	1
Trichloroethene	ND		0.50		ug/L			05/27/17 21:16	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 21:16	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 21:16	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/27/17 21:16	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 21:16	1
Dibromofluoromethane (Surr)	96		70 - 130		05/27/17 21:16	1
Toluene-d8 (Surr)	101		70 - 130		05/27/17 21:16	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/27/17 21:16	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 21:16	1
Dibromofluoromethane (Surr)	96		70 - 130		05/27/17 21:16	1
Toluene-d8 (Surr)	101		70 - 130		05/27/17 21:16	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-433331/9
Matrix: Water
Analysis Batch: 433331

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/27/17 20:48	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433331/7
Matrix: Water
Analysis Batch: 433331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	997		ug/L		100	66 - 134

Surrogate	%Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 490-433331/4
Matrix: Water
Analysis Batch: 433331

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	%Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433332/9
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433332/9
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 20:48	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
2-Butanone (MEK)	ND		50		ug/L			05/27/17 20:48	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
2-Hexanone	ND		5.0		ug/L			05/27/17 20:48	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 20:48	1
Acetone	ND		5.0		ug/L			05/27/17 20:48	1
Benzene	ND		0.50		ug/L			05/27/17 20:48	1
Bromobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Bromoform	ND		0.50		ug/L			05/27/17 20:48	1
Bromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 20:48	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Chloroethane	ND		0.50		ug/L			05/27/17 20:48	1
Chloroform	ND		0.50		ug/L			05/27/17 20:48	1
Chloromethane	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Dibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 20:48	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 20:48	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 20:48	1
Methylene Chloride	ND		5.0		ug/L			05/27/17 20:48	1
Naphthalene	ND		5.0		ug/L			05/27/17 20:48	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 20:48	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Styrene	ND		0.50		ug/L			05/27/17 20:48	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Toluene	ND		0.50		ug/L			05/27/17 20:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433332/9

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Trichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 20:48	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433332/3

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	70 - 135
1,1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	69 - 131
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethane	20.0	23.0		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	24.3		ug/L		122	70 - 132
1,1-Dichloropropene	20.0	24.0		ug/L		120	70 - 130
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		91	46 - 150
1,2,3-Trichloropropane	20.0	16.8		ug/L		84	70 - 131
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	58 - 147
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		87	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.8		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,2-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	18.7		ug/L		94	70 - 130
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 130
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 143
2-Butanone (MEK)	100	102		ug/L		102	55 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	70 - 130
2-Hexanone	100	87.4		ug/L		87	54 - 142
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	88.0		ug/L		88	60 - 137
Acetone	100	104		ug/L		104	39 - 150
Benzene	20.0	24.8		ug/L		124	70 - 130
Bromobenzene	20.0	20.1		ug/L		100	70 - 130
Chlorobromomethane	20.0	21.9		ug/L		109	70 - 130
Dichlorobromomethane	20.0	20.0		ug/L		100	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433332/3

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	20.0	18.8		ug/L		94	70 - 137
Bromomethane	20.0	20.6		ug/L		103	53 - 150
Carbon disulfide	20.0	23.6		ug/L		118	64 - 135
Carbon tetrachloride	20.0	23.2		ug/L		116	70 - 147
Chlorobenzene	20.0	19.9		ug/L		100	70 - 130
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 133
Chloroethane	20.0	23.0		ug/L		115	60 - 138
Chloroform	20.0	23.4		ug/L		117	70 - 130
Chloromethane	20.0	25.5		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	24.1		ug/L		121	70 - 130
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133
Dibromomethane	20.0	19.1		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	30.5	*	ug/L		153	48 - 150
Ethylbenzene	20.0	20.3		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138
Isopropylbenzene	20.0	20.3		ug/L		102	70 - 131
Methyl tert-butyl ether	20.0	20.5		ug/L		103	70 - 130
Methylene Chloride	20.0	23.7		ug/L		119	70 - 130
Naphthalene	20.0	17.5		ug/L		87	54 - 150
n-Butylbenzene	20.0	19.7		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.3		ug/L		102	70 - 135
Styrene	20.0	19.6		ug/L		98	70 - 130
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130
Toluene	20.0	20.9		ug/L		105	70 - 130
trans-1,2-Dichloroethene	20.0	23.1		ug/L		115	70 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142
Trichloroethene	20.0	20.4		ug/L		102	70 - 130
Trichlorofluoromethane	20.0	25.9		ug/L		129	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	116		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433332/4

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	0	13
1,1,1-Trichloroethane	20.0	22.4		ug/L		112	70 - 135	2	15
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	69 - 131	2	15

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433332/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	70 - 130	1	13
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	17	17
1,1-Dichloroethene	20.0	23.4		ug/L		117	70 - 132	4	20
1,1-Dichloropropene	20.0	23.4		ug/L		117	70 - 130	2	16
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		92	46 - 150	1	16
1,2,3-Trichloropropane	20.0	17.7		ug/L		88	70 - 131	5	14
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/L		89	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.3		ug/L		96	70 - 130	3	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	0	12
1,2-Dichloroethane	20.0	18.7		ug/L		93	70 - 130	8	13
1,2-Dichloropropane	20.0	20.0		ug/L		100	70 - 130	3	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	70 - 130	2	14
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 130	1	13
1,3-Dichloropropane	20.0	18.8		ug/L		94	70 - 130	0	12
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	2	12
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 143	2	20
2-Butanone (MEK)	100	98.3		ug/L		98	55 - 143	4	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	2	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	2	17
4-Chlorotoluene	20.0	20.4		ug/L		102	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	90.5		ug/L		90	60 - 137	3	21
Acetone	100	103		ug/L		103	39 - 150	1	23
Benzene	20.0	20.6	*	ug/L		103	70 - 130	19	12
Bromobenzene	20.0	20.3		ug/L		102	70 - 130	1	16
Chlorobromomethane	20.0	20.8		ug/L		104	70 - 130	5	16
Dichlorobromomethane	20.0	19.8		ug/L		99	70 - 130	1	14
Bromoform	20.0	19.1		ug/L		96	70 - 137	2	14
Bromomethane	20.0	20.9		ug/L		104	53 - 150	1	19
Carbon disulfide	20.0	19.2	*	ug/L		96	64 - 135	21	16
Carbon tetrachloride	20.0	22.6		ug/L		113	70 - 147	3	16
Chlorobenzene	20.0	19.9		ug/L		99	70 - 130	0	12
Chlorodibromomethane	20.0	20.1		ug/L		100	70 - 133	1	13
Chloroethane	20.0	20.7		ug/L		104	60 - 138	11	15
Chloroform	20.0	22.2		ug/L		111	70 - 130	5	14
Chloromethane	20.0	25.9		ug/L		129	33 - 150	1	20
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	70 - 130	4	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	0	15
Dibromomethane	20.0	19.9		ug/L		100	70 - 130	4	14
Dichlorodifluoromethane	20.0	31.1	*	ug/L		156	48 - 150	2	16
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130	1	12
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138	0	16
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.6		ug/L		88	70 - 130	15	16
Methylene Chloride	20.0	19.3	*	ug/L		96	70 - 130	21	15
Naphthalene	20.0	18.1		ug/L		90	54 - 150	3	15
n-Butylbenzene	20.0	19.8		ug/L		99	68 - 137	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433332/4
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134	0	14
4-Isopropyltoluene	20.0	19.7		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	19.9		ug/L		99	70 - 135	2	14
Styrene	20.0	19.7		ug/L		98	70 - 130	0	12
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.5		ug/L		103	70 - 130	0	17
Toluene	20.0	20.7		ug/L		103	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	18.9	*	ug/L		94	70 - 130	20	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	63 - 142	0	13
Trichloroethene	20.0	20.3		ug/L		101	70 - 130	1	14
Trichlorofluoromethane	20.0	24.9		ug/L		124	59 - 150	4	22
Vinyl chloride	20.0	23.0		ug/L		115	57 - 137	1	15
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433516/9
Matrix: Water
Analysis Batch: 433516

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/30/17 13:47	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

Lab Sample ID: LCS 490-433516/7
Matrix: Water
Analysis Batch: 433516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	976		ug/L		98	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433517/9

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 13:47	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 13:47	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1
2-Hexanone	ND		5.0		ug/L			05/30/17 13:47	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 13:47	1
Acetone	ND		5.0		ug/L			05/30/17 13:47	1
Benzene	ND		0.50		ug/L			05/30/17 13:47	1
Bromobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Bromoform	ND		0.50		ug/L			05/30/17 13:47	1
Bromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 13:47	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 13:47	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroform	ND		0.50		ug/L			05/30/17 13:47	1
Chloromethane	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Dibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 13:47	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 13:47	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433517/9
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 13:47	1
Naphthalene	ND		5.0		ug/L			05/30/17 13:47	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 13:47	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Styrene	ND		0.50		ug/L			05/30/17 13:47	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Toluene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Trichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 13:47	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

Lab Sample ID: LCS 490-433517/3
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	69 - 131
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	21.9		ug/L		110	70 - 130
1,1-Dichloroethene	20.0	23.5		ug/L		117	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	18.3		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130
1,2-Dichloroethane	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloropropane	20.0	19.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	20.6		ug/L		103	60 - 143
2-Butanone (MEK)	100	97.8		ug/L		98	55 - 143
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130
2-Hexanone	100	98.4		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.9		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	100	99.3		ug/L		99	60 - 137
Acetone	100	125		ug/L		125	39 - 150
Benzene	20.0	20.4		ug/L		102	70 - 130
Bromobenzene	20.0	19.9		ug/L		99	70 - 130
Chlorobromomethane	20.0	19.6		ug/L		98	70 - 130
Dichlorobromomethane	20.0	20.6		ug/L		103	70 - 130
Bromoform	20.0	20.7		ug/L		104	70 - 137
Bromomethane	20.0	22.0		ug/L		110	53 - 150
Carbon disulfide	20.0	22.7		ug/L		114	64 - 135
Carbon tetrachloride	20.0	20.4		ug/L		102	70 - 147
Chlorobenzene	20.0	19.8		ug/L		99	70 - 130
Chlorodibromomethane	20.0	21.2		ug/L		106	70 - 133
Chloroethane	20.0	22.5		ug/L		112	60 - 138
Chloroform	20.0	19.7		ug/L		99	70 - 130
Chloromethane	20.0	25.7		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	70 - 133
Dibromomethane	20.0	20.2		ug/L		101	70 - 130
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150
Ethylbenzene	20.0	20.2		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		97	70 - 138
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131
Methyl tert-butyl ether	20.0	22.7		ug/L		113	70 - 130
Methylene Chloride	20.0	22.8		ug/L		114	70 - 130
Naphthalene	20.0	18.9		ug/L		95	54 - 150
n-Butylbenzene	20.0	19.6		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.2		ug/L		101	70 - 134
4-Isopropyltoluene	20.0	19.5		ug/L		98	66 - 130
sec-Butylbenzene	20.0	19.6		ug/L		98	70 - 135
Styrene	20.0	19.7		ug/L		98	70 - 130
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130
Toluene	20.0	20.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	22.6		ug/L		113	70 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	63 - 142
Trichloroethene	20.0	19.9		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	22.2		ug/L		111	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.7		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433517/4

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	2	13
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	70 - 135	7	15
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	69 - 131	2	15
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	70 - 130	4	13
1,1-Dichloroethane	20.0	22.9		ug/L		115	70 - 130	5	17
1,1-Dichloroethene	20.0	23.7		ug/L		118	70 - 132	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		101	70 - 130	1	16
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	18.1		ug/L		90	70 - 131	1	14
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	18.9		ug/L		94	70 - 130	5	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	1	12
1,2-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	1	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	5	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130	1	14
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	0	13
1,3-Dichloropropane	20.0	18.9		ug/L		95	70 - 130	2	12
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	12
2,2-Dichloropropane	20.0	22.9		ug/L		115	60 - 143	11	20
2-Butanone (MEK)	100	109		ug/L		109	55 - 143	11	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	3	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	10	17
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130	0	15
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/L		95	60 - 137	5	21
Acetone	100	107		ug/L		107	39 - 150	15	23
Benzene	20.0	20.3		ug/L		101	70 - 130	0	12
Bromobenzene	20.0	20.1		ug/L		100	70 - 130	1	16
Chlorobromomethane	20.0	21.5		ug/L		107	70 - 130	9	16
Dichlorobromomethane	20.0	21.0		ug/L		105	70 - 130	2	14
Bromoform	20.0	19.6		ug/L		98	70 - 137	6	14
Bromomethane	20.0	21.5		ug/L		108	53 - 150	2	19
Carbon disulfide	20.0	23.4		ug/L		117	64 - 135	3	16
Carbon tetrachloride	20.0	20.5		ug/L		102	70 - 147	0	16
Chlorobenzene	20.0	19.5		ug/L		98	70 - 130	2	12
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 133	3	13
Chloroethane	20.0	20.8		ug/L		104	60 - 138	8	15
Chloroform	20.0	22.6		ug/L		113	70 - 130	14	14
Chloromethane	20.0	25.6		ug/L		128	33 - 150	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433517/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	24.0	*	ug/L		120	70 - 130	18	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	2	15
Dibromomethane	20.0	20.5		ug/L		103	70 - 130	2	14
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150	0	16
Ethylbenzene	20.0	19.8		ug/L		99	70 - 130	2	12
Hexachlorobutadiene	20.0	19.6		ug/L		98	70 - 138	1	16
Isopropylbenzene	20.0	19.9		ug/L		100	70 - 131	1	13
Methyl tert-butyl ether	20.0	21.5		ug/L		108	70 - 130	5	16
Methylene Chloride	20.0	23.7		ug/L		118	70 - 130	4	15
Naphthalene	20.0	18.4		ug/L		92	54 - 150	3	15
n-Butylbenzene	20.0	19.7		ug/L		99	68 - 137	1	14
N-Propylbenzene	20.0	20.5		ug/L		102	70 - 134	2	14
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	20.0		ug/L		100	70 - 135	2	14
Styrene	20.0	19.3		ug/L		96	70 - 130	2	12
tert-Butylbenzene	20.0	19.7		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130	0	17
Toluene	20.0	20.1		ug/L		101	70 - 130	0	13
trans-1,2-Dichloroethene	20.0	22.9		ug/L		115	70 - 130	1	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142	4	13
Trichloroethene	20.0	21.0		ug/L		105	70 - 130	5	14
Trichlorofluoromethane	20.0	22.3		ug/L		111	59 - 150	0	22
Vinyl chloride	20.0	22.5		ug/L		113	57 - 137	1	15
Xylenes, Total	40.0	39.0		ug/L		98	70 - 132	2	11

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 720-79697-3 MS

Client Sample ID: EFF

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	20.9		ug/L		105	70 - 131
1,1,1-Trichloroethane	ND		20.0	20.7		ug/L		104	68 - 144
1,1,2,2-Tetrachloroethane	ND		20.0	20.0		ug/L		100	56 - 145
1,1,2-Trichloroethane	ND		20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethane	ND		20.0	19.5		ug/L		97	61 - 139
1,1-Dichloroethene	ND		20.0	24.1		ug/L		121	54 - 150
1,1-Dichloropropene	ND		20.0	19.8		ug/L		99	54 - 150
1,2,3-Trichlorobenzene	ND		20.0	17.5		ug/L		88	36 - 150
1,2,3-Trichloropropane	ND		20.0	17.9		ug/L		89	65 - 131
1,2,4-Trichlorobenzene	ND		20.0	17.2		ug/L		86	47 - 147
1,2,4-Trimethylbenzene	ND		20.0	19.3		ug/L		97	64 - 136
1,2-Dibromo-3-Chloropropane	ND		20.0	17.8		ug/L		89	38 - 138

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79697-3 MS

Matrix: Water

Analysis Batch: 433517

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		20.0	18.8		ug/L		94	65 - 137
1,2-Dichlorobenzene	ND		20.0	19.7		ug/L		99	70 - 130
1,2-Dichloroethane	ND		20.0	19.2		ug/L		96	64 - 136
1,2-Dichloropropane	ND		20.0	20.5		ug/L		103	67 - 130
1,3,5-Trimethylbenzene	ND		20.0	19.3		ug/L		96	69 - 139
1,3-Dichlorobenzene	ND		20.0	19.3		ug/L		96	68 - 131
1,3-Dichloropropane	ND		20.0	19.0		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		20.0	19.3		ug/L		96	70 - 130
2,2-Dichloropropane	ND	F1	20.0	7.22	F1	ug/L		36	50 - 146
2-Butanone (MEK)	ND		100	86.0		ug/L		86	50 - 143
2-Chlorotoluene	ND		20.0	20.0		ug/L		100	67 - 138
2-Hexanone	ND		100	89.2		ug/L		89	44 - 150
4-Chlorotoluene	ND		20.0	19.7		ug/L		98	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		100	92.1		ug/L		92	50 - 140
Acetone	ND		100	120		ug/L		120	39 - 150
Benzene	ND	*	20.0	20.4		ug/L		102	55 - 147
Bromobenzene	ND		20.0	19.5		ug/L		97	60 - 133
Chlorobromomethane	ND		20.0	18.8		ug/L		94	59 - 132
Dichlorobromomethane	ND		20.0	21.0		ug/L		105	70 - 140
Bromoform	ND		20.0	19.7		ug/L		99	53 - 150
Bromomethane	ND		20.0	17.1		ug/L		86	30 - 150
Carbon disulfide	ND	*	20.0	21.4		ug/L		107	35 - 150
Carbon tetrachloride	ND		20.0	21.5		ug/L		108	56 - 150
Chlorobenzene	ND		20.0	19.9		ug/L		99	70 - 130
Chlorodibromomethane	ND		20.0	20.6		ug/L		103	66 - 140
Chloroethane	ND		20.0	20.9		ug/L		105	58 - 141
Chloroform	ND		20.0	20.1		ug/L		100	66 - 138
Chloromethane	ND		20.0	27.4		ug/L		137	10 - 150
cis-1,2-Dichloroethene	ND		20.0	20.0		ug/L		100	68 - 131
cis-1,3-Dichloropropene	ND		20.0	15.9		ug/L		80	70 - 133
Dibromomethane	ND		20.0	20.2		ug/L		101	70 - 130
Dichlorodifluoromethane	ND	*	20.0	28.9		ug/L		145	10 - 150
Ethylbenzene	ND		20.0	20.4		ug/L		102	65 - 139
Hexachlorobutadiene	ND		20.0	17.2		ug/L		86	61 - 141
Isopropylbenzene	ND		20.0	20.2		ug/L		101	70 - 137
Methyl tert-butyl ether	ND		20.0	21.1		ug/L		105	55 - 141
Methylene Chloride	ND	* F1	20.0	24.1		ug/L		121	64 - 130
Naphthalene	ND		20.0	17.5		ug/L		88	32 - 150
n-Butylbenzene	ND		20.0	18.0		ug/L		90	61 - 141
N-Propylbenzene	ND		20.0	20.0		ug/L		100	53 - 150
4-Isopropyltoluene	ND		20.0	18.9		ug/L		94	66 - 137
sec-Butylbenzene	ND		20.0	19.6		ug/L		98	55 - 136
Styrene	ND	F1	20.0	10.3	F1	ug/L		52	70 - 130
tert-Butylbenzene	ND		20.0	19.8		ug/L		99	70 - 138
Tetrachloroethene	ND		20.0	19.8		ug/L		99	57 - 138
Toluene	ND		20.0	20.6		ug/L		103	64 - 136
trans-1,2-Dichloroethene	ND	*	20.0	22.2		ug/L		111	59 - 143
trans-1,3-Dichloropropene	ND		20.0	15.7		ug/L		78	63 - 142

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79697-3 MS

Matrix: Water

Analysis Batch: 433517

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	ND		20.0	21.0		ug/L		105	63 - 135
Trichlorofluoromethane	ND		20.0	23.6		ug/L		118	44 - 150
Vinyl chloride	ND		20.0	22.4		ug/L		112	57 - 150
Xylenes, Total	ND		40.0	39.8		ug/L		100	69 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-79697-3 MSD

Matrix: Water

Analysis Batch: 433517

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	21.3		ug/L		106	70 - 131	2	16
1,1,1-Trichloroethane	ND		20.0	20.7		ug/L		103	68 - 144	0	17
1,1,1,2,2-Tetrachloroethane	ND		20.0	20.2		ug/L		101	56 - 145	1	19
1,1,2-Trichloroethane	ND		20.0	20.1		ug/L		100	70 - 130	0	18
1,1-Dichloroethane	ND		20.0	20.5		ug/L		102	61 - 139	5	23
1,1-Dichloroethene	ND		20.0	24.6		ug/L		123	54 - 150	2	24
1,1-Dichloropropene	ND		20.0	19.5		ug/L		97	54 - 150	2	24
1,2,3-Trichlorobenzene	ND		20.0	18.1		ug/L		91	36 - 150	3	43
1,2,3-Trichloropropane	ND		20.0	18.1		ug/L		90	65 - 131	1	19
1,2,4-Trichlorobenzene	ND		20.0	17.9		ug/L		90	47 - 147	4	24
1,2,4-Trimethylbenzene	ND		20.0	20.1		ug/L		100	64 - 136	4	18
1,2-Dibromo-3-Chloropropane	ND		20.0	17.9		ug/L		90	38 - 138	1	26
1,2-Dibromoethane (EDB)	ND		20.0	19.4		ug/L		97	65 - 137	3	21
1,2-Dichlorobenzene	ND		20.0	20.5		ug/L		103	70 - 130	4	15
1,2-Dichloroethane	ND		20.0	18.7		ug/L		94	64 - 136	3	22
1,2-Dichloropropane	ND		20.0	20.7		ug/L		104	67 - 130	1	19
1,3,5-Trimethylbenzene	ND		20.0	20.0		ug/L		100	69 - 139	4	17
1,3-Dichlorobenzene	ND		20.0	19.9		ug/L		100	68 - 131	3	14
1,3-Dichloropropane	ND		20.0	19.3		ug/L		97	70 - 130	2	17
1,4-Dichlorobenzene	ND		20.0	19.8		ug/L		99	70 - 130	3	14
2,2-Dichloropropane	ND	F1	20.0	7.37	F1	ug/L		37	50 - 146	2	20
2-Butanone (MEK)	ND		100	84.9		ug/L		85	50 - 143	1	28
2-Chlorotoluene	ND		20.0	20.5		ug/L		103	67 - 138	2	17
2-Hexanone	ND		100	90.0		ug/L		90	44 - 150	1	21
4-Chlorotoluene	ND		20.0	20.4		ug/L		102	69 - 138	4	15
4-Methyl-2-pentanone (MIBK)	ND		100	93.0		ug/L		93	50 - 140	1	24
Acetone	ND		100	118		ug/L		118	39 - 150	2	28
Benzene	ND	*	20.0	20.4		ug/L		102	55 - 147	0	22
Bromobenzene	ND		20.0	20.4		ug/L		102	60 - 133	4	18
Chlorobromomethane	ND		20.0	19.0		ug/L		95	59 - 132	1	21
Dichlorobromomethane	ND		20.0	21.2		ug/L		106	70 - 140	1	196
Bromoform	ND		20.0	20.0		ug/L		100	53 - 150	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79697-3 MSD

Matrix: Water

Analysis Batch: 433517

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		20.0	16.1		ug/L		80	30 - 150	7	44
Carbon disulfide	ND	*	20.0	21.3		ug/L		106	35 - 150	1	34
Carbon tetrachloride	ND		20.0	21.4		ug/L		107	56 - 150	0	18
Chlorobenzene	ND		20.0	20.4		ug/L		102	70 - 130	3	15
Chlorodibromomethane	ND		20.0	21.1		ug/L		105	66 - 140	2	19
Chloroethane	ND		20.0	22.5		ug/L		113	58 - 141	7	31
Chloroform	ND		20.0	20.1		ug/L		101	66 - 138	0	21
Chloromethane	ND		20.0	28.0		ug/L		140	10 - 150	2	43
cis-1,2-Dichloroethene	ND		20.0	19.9		ug/L		100	68 - 131	1	21
cis-1,3-Dichloropropene	ND		20.0	16.1		ug/L		81	70 - 133	1	19
Dibromomethane	ND		20.0	20.4		ug/L		102	70 - 130	1	19
Dichlorodifluoromethane	ND	*	20.0	28.9		ug/L		144	10 - 150	0	50
Ethylbenzene	ND		20.0	20.8		ug/L		104	65 - 139	2	18
Hexachlorobutadiene	ND		20.0	18.0		ug/L		90	61 - 141	4	26
Isopropylbenzene	ND		20.0	20.8		ug/L		104	70 - 137	3	17
Methyl tert-butyl ether	ND		20.0	21.7		ug/L		109	55 - 141	3	24
Methylene Chloride	ND	* F1	20.0	26.5	F1	ug/L		132	64 - 130	9	22
Naphthalene	ND		20.0	18.2		ug/L		91	32 - 150	4	40
n-Butylbenzene	ND		20.0	18.6		ug/L		93	61 - 141	3	17
N-Propylbenzene	ND		20.0	20.6		ug/L		103	53 - 150	3	18
4-Isopropyltoluene	ND		20.0	19.3		ug/L		96	66 - 137	2	16
sec-Butylbenzene	ND		20.0	20.2		ug/L		101	55 - 136	3	50
Styrene	ND	F1	20.0	10.8	F1	ug/L		54	70 - 130	5	16
tert-Butylbenzene	ND		20.0	20.4		ug/L		102	70 - 138	3	17
Tetrachloroethene	ND		20.0	19.9		ug/L		99	57 - 138	1	17
Toluene	ND		20.0	21.2		ug/L		106	64 - 136	3	18
trans-1,2-Dichloroethene	ND	*	20.0	23.4		ug/L		117	59 - 143	5	25
trans-1,3-Dichloropropene	ND		20.0	16.2		ug/L		81	63 - 142	3	18
Trichloroethene	ND		20.0	21.0		ug/L		105	63 - 135	0	17
Trichlorofluoromethane	ND		20.0	26.5		ug/L		133	44 - 150	12	32
Vinyl chloride	ND		20.0	23.0		ug/L		115	57 - 150	3	37
Xylenes, Total	ND		40.0	40.7		ug/L		102	69 - 132	2	17

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

GC/MS VOA

Analysis Batch: 433331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79697-2	GAC	Total/NA	Water	8260B	
720-79697-3	EFF	Total/NA	Water	8260B	
MB 490-433331/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433331/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433331/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79697-2	GAC	Total/NA	Water	8260B	
720-79697-3	EFF	Total/NA	Water	8260B	
MB 490-433332/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433332/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433332/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79697-1	INF	Total/NA	Water	8260B	
MB 490-433516/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433516/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 433517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79697-1	INF	Total/NA	Water	8260B	
MB 490-433517/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433517/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433517/4	Lab Control Sample Dup	Total/NA	Water	8260B	
720-79697-3 MS	EFF	Total/NA	Water	8260B	
720-79697-3 MSD	EFF	Total/NA	Water	8260B	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Client Sample ID: INF

Date Collected: 05/23/17 12:20

Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433516	05/30/17 17:04	JRV	TAL NSH
Total/NA	Analysis	8260B		1	433517	05/30/17 17:04	JRV	TAL NSH

Client Sample ID: GAC

Date Collected: 05/23/17 12:22

Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433331	05/28/17 01:02	AK1	TAL NSH
Total/NA	Analysis	8260B		1	433332	05/28/17 01:02	AK1	TAL NSH

Client Sample ID: EFF

Date Collected: 05/23/17 12:24

Date Received: 05/24/17 16:10

Lab Sample ID: 720-79697-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433331	05/27/17 21:16	AK1	TAL NSH
Total/NA	Analysis	8260B		1	433332	05/27/17 21:16	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	09-01-17
Arizona	State Program	9	AZ0473	05-05-17 *
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79697-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-79697-1	INF	Water	05/23/17 12:20	05/24/17 16:10
720-79697-2	GAC	Water	05/23/17 12:22	05/24/17 16:10
720-79697-3	EFF	Water	05/23/17 12:24	05/24/17 16:10

- 1
- 2
- 3
- 4
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record

well 176119

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
phone 925.484.1919 fax

720-79697

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc. C-31

Client Contact

Project Manager: **Peter Sims**

Site Contact: **Peter Sims**

Date: **5/23/17**

COC No. 1

1956 Webster Street, Ste 400
Oakland, CA 946501

Tel/Fax: **510-327-9335**

Carrier:

Sampler: _____
of COCs

510-343-3000 Phone

Analysis Turnaround Time

For Lab Use Only:
Walk-in Client: _____
Lab Sampling: _____

Job / SDG No.:

510-343-3001 FAX

CALENDAR DAYS
 WORKING DAYS

Filtered Sample (Y / N)

Sample Specific Notes:

Project Name **Churn**

TAT if different from Below

Title 22 Metals by EPA 6010/7471

Sample Type (C=Comp, G=Grab)

Site

1 week
 2 weeks
 2 days
 1 day

TPHd and TPHmo by EPA 8015B

Matrix

P O # **401876004**

1 day

VOCs and TPHg by EPA 8260B

of Cont.

Sample Identification

Sample Date

Perform MS / MSD (Y / N)

OCs by EPA 8081

INF

5/3/17

X

W

GAC

1222

X

W

EFF

1224

X

W



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Non-Hazard Flammable Skin Irritant

Return to Client

Disposal by Lab

Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2, 1st

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obs'd:

Corr'd:

Therm ID No.:

Relinquished by: **Pat Sims**

Company: **W+M**

Date/Time: **5/24/17 14:31**

Received by: **Pat Sims**

Company: **W+M**

Date/Time: **5/24/17 14:31**

Relinquished by: **Pat Sims**

Company: **TA**

Date/Time: **5/24/17 16:00**

Received in Laboratory by: **Pat Sims**

Company: **TA**

Date/Time: **5/24/17 16:00**

Relinquished by:

Company:

Date/Time:

Received in Laboratory by:

Company:

Date/Time:

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79697-1

Login Number: 79697
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79697-1

Login Number: 79697
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 05/26/17 05:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-80266-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
6/28/2017 2:16:17 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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results through
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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Job ID: 720-80266-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-80266-1

Comments

No additional comments.

Receipt

The samples were received on 6/22/2017 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: EFF

Lab Sample ID: 720-80266-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-80266-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-80266-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.57		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Benzene	2.7		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	1.1		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	1.8		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	6.6		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	17		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	130		50		ug/L	1			8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: EFF
Date Collected: 06/21/17 08:30
Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/26/17 14:29	1
Acetone	ND		50		ug/L			06/26/17 14:29	1
Benzene	ND		0.50		ug/L			06/26/17 14:29	1
Dichlorobromomethane	ND		0.50		ug/L			06/26/17 14:29	1
Bromobenzene	ND		1.0		ug/L			06/26/17 14:29	1
Chlorobromomethane	ND		1.0		ug/L			06/26/17 14:29	1
Bromoform	ND		1.0		ug/L			06/26/17 14:29	1
Bromomethane	ND		1.0		ug/L			06/26/17 14:29	1
2-Butanone (MEK)	ND		50		ug/L			06/26/17 14:29	1
n-Butylbenzene	ND		1.0		ug/L			06/26/17 14:29	1
sec-Butylbenzene	ND		1.0		ug/L			06/26/17 14:29	1
tert-Butylbenzene	ND		1.0		ug/L			06/26/17 14:29	1
Carbon disulfide	ND		5.0		ug/L			06/26/17 14:29	1
Carbon tetrachloride	ND		0.50		ug/L			06/26/17 14:29	1
Chlorobenzene	ND		0.50		ug/L			06/26/17 14:29	1
Chloroethane	ND		1.0		ug/L			06/26/17 14:29	1
Chloroform	ND		1.0		ug/L			06/26/17 14:29	1
Chloromethane	ND		1.0		ug/L			06/26/17 14:29	1
2-Chlorotoluene	ND		0.50		ug/L			06/26/17 14:29	1
4-Chlorotoluene	ND		0.50		ug/L			06/26/17 14:29	1
Chlorodibromomethane	ND		0.50		ug/L			06/26/17 14:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:29	1
1,3-Dichloropropane	ND		1.0		ug/L			06/26/17 14:29	1
1,1-Dichloropropene	ND		0.50		ug/L			06/26/17 14:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/26/17 14:29	1
Ethylene Dibromide	ND		0.50		ug/L			06/26/17 14:29	1
Dibromomethane	ND		0.50		ug/L			06/26/17 14:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/26/17 14:29	1
1,1-Dichloroethane	ND		0.50		ug/L			06/26/17 14:29	1
1,2-Dichloroethane	ND		0.50		ug/L			06/26/17 14:29	1
1,1-Dichloroethene	ND		0.50		ug/L			06/26/17 14:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 14:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 14:29	1
1,2-Dichloropropane	ND		0.50		ug/L			06/26/17 14:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 14:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 14:29	1
Ethylbenzene	ND		0.50		ug/L			06/26/17 14:29	1
Hexachlorobutadiene	ND		1.0		ug/L			06/26/17 14:29	1
2-Hexanone	ND		50		ug/L			06/26/17 14:29	1
Isopropylbenzene	ND		0.50		ug/L			06/26/17 14:29	1
4-Isopropyltoluene	ND		1.0		ug/L			06/26/17 14:29	1
Methylene Chloride	ND		5.0		ug/L			06/26/17 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/26/17 14:29	1
Naphthalene	ND		1.0		ug/L			06/26/17 14:29	1
N-Propylbenzene	ND		1.0		ug/L			06/26/17 14:29	1
Styrene	ND		0.50		ug/L			06/26/17 14:29	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 14:29	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: EFF
Date Collected: 06/21/17 08:30
Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 14:29	1
Tetrachloroethene	ND		0.50		ug/L			06/26/17 14:29	1
Toluene	ND		0.50		ug/L			06/26/17 14:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/26/17 14:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/26/17 14:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/26/17 14:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/26/17 14:29	1
Trichloroethene	ND		0.50		ug/L			06/26/17 14:29	1
Trichlorofluoromethane	ND		1.0		ug/L			06/26/17 14:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/26/17 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/26/17 14:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/26/17 14:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/26/17 14:29	1
Vinyl acetate	ND		10		ug/L			06/26/17 14:29	1
Vinyl chloride	ND		0.50		ug/L			06/26/17 14:29	1
Xylenes, Total	ND		1.0		ug/L			06/26/17 14:29	1
2,2-Dichloropropane	ND		0.50		ug/L			06/26/17 14:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/26/17 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		06/26/17 14:29	1
1,2-Dichloroethane-d4 (Surr)	112		72 - 130		06/26/17 14:29	1
Toluene-d8 (Surr)	92		70 - 130		06/26/17 14:29	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: GAC

Date Collected: 06/21/17 08:35

Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-2

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/26/17 14:00	1
Acetone	ND		50		ug/L			06/26/17 14:00	1
Benzene	ND		0.50		ug/L			06/26/17 14:00	1
Dichlorobromomethane	ND		0.50		ug/L			06/26/17 14:00	1
Bromobenzene	ND		1.0		ug/L			06/26/17 14:00	1
Chlorobromomethane	ND		1.0		ug/L			06/26/17 14:00	1
Bromoform	ND		1.0		ug/L			06/26/17 14:00	1
Bromomethane	ND		1.0		ug/L			06/26/17 14:00	1
2-Butanone (MEK)	ND		50		ug/L			06/26/17 14:00	1
n-Butylbenzene	ND		1.0		ug/L			06/26/17 14:00	1
sec-Butylbenzene	ND		1.0		ug/L			06/26/17 14:00	1
tert-Butylbenzene	ND		1.0		ug/L			06/26/17 14:00	1
Carbon disulfide	ND		5.0		ug/L			06/26/17 14:00	1
Carbon tetrachloride	ND		0.50		ug/L			06/26/17 14:00	1
Chlorobenzene	ND		0.50		ug/L			06/26/17 14:00	1
Chloroethane	ND		1.0		ug/L			06/26/17 14:00	1
Chloroform	ND		1.0		ug/L			06/26/17 14:00	1
Chloromethane	ND		1.0		ug/L			06/26/17 14:00	1
2-Chlorotoluene	ND		0.50		ug/L			06/26/17 14:00	1
4-Chlorotoluene	ND		0.50		ug/L			06/26/17 14:00	1
Chlorodibromomethane	ND		0.50		ug/L			06/26/17 14:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/26/17 14:00	1
1,3-Dichloropropane	ND		1.0		ug/L			06/26/17 14:00	1
1,1-Dichloropropene	ND		0.50		ug/L			06/26/17 14:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/26/17 14:00	1
Ethylene Dibromide	ND		0.50		ug/L			06/26/17 14:00	1
Dibromomethane	ND		0.50		ug/L			06/26/17 14:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/26/17 14:00	1
1,1-Dichloroethane	ND		0.50		ug/L			06/26/17 14:00	1
1,2-Dichloroethane	ND		0.50		ug/L			06/26/17 14:00	1
1,1-Dichloroethene	ND		0.50		ug/L			06/26/17 14:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 14:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 14:00	1
1,2-Dichloropropane	ND		0.50		ug/L			06/26/17 14:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 14:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 14:00	1
Ethylbenzene	ND		0.50		ug/L			06/26/17 14:00	1
Hexachlorobutadiene	ND		1.0		ug/L			06/26/17 14:00	1
2-Hexanone	ND		50		ug/L			06/26/17 14:00	1
Isopropylbenzene	ND		0.50		ug/L			06/26/17 14:00	1
4-Isopropyltoluene	ND		1.0		ug/L			06/26/17 14:00	1
Methylene Chloride	ND		5.0		ug/L			06/26/17 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/26/17 14:00	1
Naphthalene	ND		1.0		ug/L			06/26/17 14:00	1
N-Propylbenzene	ND		1.0		ug/L			06/26/17 14:00	1
Styrene	ND		0.50		ug/L			06/26/17 14:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 14:00	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: GAC

Lab Sample ID: 720-80266-2

Date Collected: 06/21/17 08:35

Matrix: Water

Date Received: 06/22/17 09:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 14:00	1
Tetrachloroethene	ND		0.50		ug/L			06/26/17 14:00	1
Toluene	ND		0.50		ug/L			06/26/17 14:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/26/17 14:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/26/17 14:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/26/17 14:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/26/17 14:00	1
Trichloroethene	ND		0.50		ug/L			06/26/17 14:00	1
Trichlorofluoromethane	ND		1.0		ug/L			06/26/17 14:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/26/17 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/26/17 14:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/26/17 14:00	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/26/17 14:00	1
Vinyl acetate	ND		10		ug/L			06/26/17 14:00	1
Vinyl chloride	ND		0.50		ug/L			06/26/17 14:00	1
Xylenes, Total	ND		1.0		ug/L			06/26/17 14:00	1
2,2-Dichloropropane	ND		0.50		ug/L			06/26/17 14:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/26/17 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		06/26/17 14:00	1
1,2-Dichloroethane-d4 (Surr)	111		72 - 130		06/26/17 14:00	1
Toluene-d8 (Surr)	92		70 - 130		06/26/17 14:00	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: INF

Date Collected: 06/21/17 08:40

Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.57		0.50		ug/L			06/26/17 16:51	1
Acetone	ND		50		ug/L			06/26/17 16:51	1
Benzene	2.7		0.50		ug/L			06/26/17 16:51	1
Dichlorobromomethane	ND		0.50		ug/L			06/26/17 16:51	1
Bromobenzene	ND		1.0		ug/L			06/26/17 16:51	1
Chlorobromomethane	ND		1.0		ug/L			06/26/17 16:51	1
Bromoform	ND		1.0		ug/L			06/26/17 16:51	1
Bromomethane	ND		1.0		ug/L			06/26/17 16:51	1
2-Butanone (MEK)	ND		50		ug/L			06/26/17 16:51	1
n-Butylbenzene	ND		1.0		ug/L			06/26/17 16:51	1
sec-Butylbenzene	ND		1.0		ug/L			06/26/17 16:51	1
tert-Butylbenzene	ND		1.0		ug/L			06/26/17 16:51	1
Carbon disulfide	ND		5.0		ug/L			06/26/17 16:51	1
Carbon tetrachloride	ND		0.50		ug/L			06/26/17 16:51	1
Chlorobenzene	ND		0.50		ug/L			06/26/17 16:51	1
Chloroethane	ND		1.0		ug/L			06/26/17 16:51	1
Chloroform	ND		1.0		ug/L			06/26/17 16:51	1
Chloromethane	ND		1.0		ug/L			06/26/17 16:51	1
2-Chlorotoluene	ND		0.50		ug/L			06/26/17 16:51	1
4-Chlorotoluene	ND		0.50		ug/L			06/26/17 16:51	1
Chlorodibromomethane	ND		0.50		ug/L			06/26/17 16:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/26/17 16:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/26/17 16:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/26/17 16:51	1
1,3-Dichloropropane	ND		1.0		ug/L			06/26/17 16:51	1
1,1-Dichloropropane	ND		0.50		ug/L			06/26/17 16:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/26/17 16:51	1
Ethylene Dibromide	ND		0.50		ug/L			06/26/17 16:51	1
Dibromomethane	ND		0.50		ug/L			06/26/17 16:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/26/17 16:51	1
1,1-Dichloroethane	ND		0.50		ug/L			06/26/17 16:51	1
1,2-Dichloroethane	ND		0.50		ug/L			06/26/17 16:51	1
1,1-Dichloroethene	ND		0.50		ug/L			06/26/17 16:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 16:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 16:51	1
1,2-Dichloropropane	ND		0.50		ug/L			06/26/17 16:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 16:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 16:51	1
Ethylbenzene	ND		0.50		ug/L			06/26/17 16:51	1
Hexachlorobutadiene	ND		1.0		ug/L			06/26/17 16:51	1
2-Hexanone	ND		50		ug/L			06/26/17 16:51	1
Isopropylbenzene	ND		0.50		ug/L			06/26/17 16:51	1
4-Isopropyltoluene	ND		1.0		ug/L			06/26/17 16:51	1
Methylene Chloride	ND		5.0		ug/L			06/26/17 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/26/17 16:51	1
Naphthalene	1.1		1.0		ug/L			06/26/17 16:51	1
N-Propylbenzene	ND		1.0		ug/L			06/26/17 16:51	1
Styrene	ND		0.50		ug/L			06/26/17 16:51	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 16:51	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: INF

Lab Sample ID: 720-80266-3

Date Collected: 06/21/17 08:40

Matrix: Water

Date Received: 06/22/17 09:55

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 16:51	1
Tetrachloroethene	ND		0.50		ug/L			06/26/17 16:51	1
Toluene	1.8		0.50		ug/L			06/26/17 16:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/26/17 16:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/26/17 16:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/26/17 16:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/26/17 16:51	1
Trichloroethene	ND		0.50		ug/L			06/26/17 16:51	1
Trichlorofluoromethane	ND		1.0		ug/L			06/26/17 16:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/26/17 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/26/17 16:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/26/17 16:51	1
1,3,5-Trimethylbenzene	6.6		0.50		ug/L			06/26/17 16:51	1
Vinyl acetate	ND		10		ug/L			06/26/17 16:51	1
Vinyl chloride	ND		0.50		ug/L			06/26/17 16:51	1
Xylenes, Total	17		1.0		ug/L			06/26/17 16:51	1
2,2-Dichloropropane	ND		0.50		ug/L			06/26/17 16:51	1
Gasoline Range Organics (GRO)	130		50		ug/L			06/26/17 16:51	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		06/26/17 16:51	1
1,2-Dichloroethane-d4 (Surr)	117		72 - 130		06/26/17 16:51	1
Toluene-d8 (Surr)	92		70 - 130		06/26/17 16:51	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-225468/4

Matrix: Water

Analysis Batch: 225468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/26/17 09:45	1
Acetone	ND		50		ug/L			06/26/17 09:45	1
Benzene	ND		0.50		ug/L			06/26/17 09:45	1
Dichlorobromomethane	ND		0.50		ug/L			06/26/17 09:45	1
Bromobenzene	ND		1.0		ug/L			06/26/17 09:45	1
Chlorobromomethane	ND		1.0		ug/L			06/26/17 09:45	1
Bromoform	ND		1.0		ug/L			06/26/17 09:45	1
Bromomethane	ND		1.0		ug/L			06/26/17 09:45	1
2-Butanone (MEK)	ND		50		ug/L			06/26/17 09:45	1
n-Butylbenzene	ND		1.0		ug/L			06/26/17 09:45	1
sec-Butylbenzene	ND		1.0		ug/L			06/26/17 09:45	1
tert-Butylbenzene	ND		1.0		ug/L			06/26/17 09:45	1
Carbon disulfide	ND		5.0		ug/L			06/26/17 09:45	1
Carbon tetrachloride	ND		0.50		ug/L			06/26/17 09:45	1
Chlorobenzene	ND		0.50		ug/L			06/26/17 09:45	1
Chloroethane	ND		1.0		ug/L			06/26/17 09:45	1
Chloroform	ND		1.0		ug/L			06/26/17 09:45	1
Chloromethane	ND		1.0		ug/L			06/26/17 09:45	1
2-Chlorotoluene	ND		0.50		ug/L			06/26/17 09:45	1
4-Chlorotoluene	ND		0.50		ug/L			06/26/17 09:45	1
Chlorodibromomethane	ND		0.50		ug/L			06/26/17 09:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/26/17 09:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/26/17 09:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/26/17 09:45	1
1,3-Dichloropropane	ND		1.0		ug/L			06/26/17 09:45	1
1,1-Dichloropropene	ND		0.50		ug/L			06/26/17 09:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/26/17 09:45	1
Ethylene Dibromide	ND		0.50		ug/L			06/26/17 09:45	1
Dibromomethane	ND		0.50		ug/L			06/26/17 09:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/26/17 09:45	1
1,1-Dichloroethane	ND		0.50		ug/L			06/26/17 09:45	1
1,2-Dichloroethane	ND		0.50		ug/L			06/26/17 09:45	1
1,1-Dichloroethene	ND		0.50		ug/L			06/26/17 09:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 09:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/26/17 09:45	1
1,2-Dichloropropane	ND		0.50		ug/L			06/26/17 09:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 09:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/26/17 09:45	1
Ethylbenzene	ND		0.50		ug/L			06/26/17 09:45	1
Hexachlorobutadiene	ND		1.0		ug/L			06/26/17 09:45	1
2-Hexanone	ND		50		ug/L			06/26/17 09:45	1
Isopropylbenzene	ND		0.50		ug/L			06/26/17 09:45	1
4-Isopropyltoluene	ND		1.0		ug/L			06/26/17 09:45	1
Methylene Chloride	ND		5.0		ug/L			06/26/17 09:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/26/17 09:45	1
Naphthalene	ND		1.0		ug/L			06/26/17 09:45	1
N-Propylbenzene	ND		1.0		ug/L			06/26/17 09:45	1
Styrene	ND		0.50		ug/L			06/26/17 09:45	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-225468/4
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 09:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/26/17 09:45	1
Tetrachloroethene	ND		0.50		ug/L			06/26/17 09:45	1
Toluene	ND		0.50		ug/L			06/26/17 09:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/26/17 09:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/26/17 09:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/26/17 09:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/26/17 09:45	1
Trichloroethene	ND		0.50		ug/L			06/26/17 09:45	1
Trichlorofluoromethane	ND		1.0		ug/L			06/26/17 09:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/26/17 09:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/26/17 09:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/26/17 09:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/26/17 09:45	1
Vinyl acetate	ND		10		ug/L			06/26/17 09:45	1
Vinyl chloride	ND		0.50		ug/L			06/26/17 09:45	1
Xylenes, Total	ND		1.0		ug/L			06/26/17 09:45	1
2,2-Dichloropropane	ND		0.50		ug/L			06/26/17 09:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/26/17 09:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		06/26/17 09:45	1
1,2-Dichloroethane-d4 (Surr)	112		72 - 130		06/26/17 09:45	1
Toluene-d8 (Surr)	92		70 - 130		06/26/17 09:45	1

Lab Sample ID: LCS 720-225468/5
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.8		ug/L		103	62 - 130
Acetone	125	108		ug/L		86	26 - 180
Benzene	25.0	23.7		ug/L		95	79 - 130
Dichlorobromomethane	25.0	28.1		ug/L		112	70 - 130
Bromobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130
Bromoform	25.0	25.2		ug/L		101	68 - 136
Bromomethane	25.0	25.1		ug/L		100	43 - 151
2-Butanone (MEK)	125	109		ug/L		87	54 - 153
n-Butylbenzene	25.0	27.1		ug/L		109	70 - 142
sec-Butylbenzene	25.0	26.5		ug/L		106	70 - 134
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 135
Carbon disulfide	25.0	21.9		ug/L		88	68 - 146
Carbon tetrachloride	25.0	29.2		ug/L		117	70 - 146
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	25.0		ug/L		100	62 - 138
Chloroform	25.0	26.3		ug/L		105	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-225468/5

Matrix: Water

Analysis Batch: 225468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	23.3		ug/L		93	52 - 175
2-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130
4-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 145
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.7		ug/L		107	70 - 136
Ethylene Dibromide	25.0	26.1		ug/L		104	70 - 130
Dibromomethane	25.0	25.9		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	26.4		ug/L		106	32 - 158
1,1-Dichloroethane	25.0	24.4		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	28.9		ug/L		116	61 - 132
1,1-Dichloroethene	25.0	22.9		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
cis-1,3-Dichloropropene	25.0	24.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 140
Ethylbenzene	25.0	25.7		ug/L		103	80 - 120
Hexachlorobutadiene	25.0	28.1		ug/L		112	70 - 130
2-Hexanone	125	113		ug/L		90	60 - 164
Isopropylbenzene	25.0	26.8		ug/L		107	70 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 130
Methylene Chloride	25.0	22.3		ug/L		89	70 - 147
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		91	50 - 155
Naphthalene	25.0	26.2		ug/L		105	50 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.8		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	24.4		ug/L		98	78 - 120
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	29.3		ug/L		117	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
Trichloroethene	25.0	24.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	66 - 132
1,2,3-Trichloropropane	25.0	28.8		ug/L		115	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	42 - 162
1,2,4-Trimethylbenzene	25.0	27.1		ug/L		108	70 - 132
1,3,5-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 130
Vinyl acetate	25.0	24.8		ug/L		99	43 - 163
Vinyl chloride	25.0	24.6		ug/L		98	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-225468/5
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 142
o-Xylene	25.0	26.5		ug/L		106	70 - 130
2,2-Dichloropropane	25.0	28.9		ug/L		115	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: LCS 720-225468/7
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	452		ug/L		90	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	109		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-225468/6
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.2		ug/L		101	62 - 130	2	20
Acetone	125	112		ug/L		89	26 - 180	3	30
Benzene	25.0	23.7		ug/L		95	79 - 130	0	20
Dichlorobromomethane	25.0	28.0		ug/L		112	70 - 130	0	20
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Chlorobromomethane	25.0	24.9		ug/L		99	70 - 130	1	20
Bromoform	25.0	24.9		ug/L		100	68 - 136	1	20
Bromomethane	25.0	25.4		ug/L		102	43 - 151	1	20
2-Butanone (MEK)	125	107		ug/L		85	54 - 153	2	20
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 142	0	20
sec-Butylbenzene	25.0	27.1		ug/L		108	70 - 134	2	20
tert-Butylbenzene	25.0	27.2		ug/L		109	70 - 135	2	20
Carbon disulfide	25.0	21.6		ug/L		87	68 - 146	1	20
Carbon tetrachloride	25.0	29.1		ug/L		116	70 - 146	0	20
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	62 - 138	0	20
Chloroform	25.0	26.3		ug/L		105	70 - 130	0	20
Chloromethane	25.0	24.0		ug/L		96	52 - 175	3	20
2-Chlorotoluene	25.0	27.3		ug/L		109	70 - 130	2	20
4-Chlorotoluene	25.0	27.4		ug/L		110	70 - 130	2	20
Chlorodibromomethane	25.0	27.0		ug/L		108	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-225468/6

Matrix: Water

Analysis Batch: 225468

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130	1	20
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130	0	20
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	70 - 136	1	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	2	20
Dibromomethane	25.0	25.6		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	25.0	25.8		ug/L		103	32 - 158	2	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,2-Dichloroethane	25.0	28.8		ug/L		115	61 - 132	0	20
1,1-Dichloroethene	25.0	22.7		ug/L		91	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130	0	20
1,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 140	1	20
Ethylbenzene	25.0	25.9		ug/L		104	80 - 120	1	20
Hexachlorobutadiene	25.0	28.1		ug/L		112	70 - 130	0	20
2-Hexanone	125	109		ug/L		87	60 - 164	3	20
Isopropylbenzene	25.0	26.8		ug/L		107	70 - 130	0	20
4-Isopropyltoluene	25.0	27.1		ug/L		109	70 - 130	2	20
Methylene Chloride	25.0	22.6		ug/L		90	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	50 - 155	4	20
Naphthalene	25.0	26.2		ug/L		105	50 - 130	0	20
N-Propylbenzene	25.0	26.4		ug/L		105	70 - 130	1	20
Styrene	25.0	25.3		ug/L		101	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130	1	20
Tetrachloroethene	25.0	24.9		ug/L		99	70 - 130	0	20
Toluene	25.0	24.5		ug/L		98	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
1,1,1-Trichloroethane	25.0	28.9		ug/L		116	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	70 - 130	3	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	0	20
Trichlorofluoromethane	25.0	28.9		ug/L		116	66 - 132	3	20
1,2,3-Trichloropropane	25.0	27.8		ug/L		111	70 - 130	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.6		ug/L		98	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	27.3		ug/L		109	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 130	2	20
Vinyl acetate	25.0	24.5		ug/L		98	43 - 163	1	20
Vinyl chloride	25.0	24.7		ug/L		99	54 - 135	1	20
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 142	0	20
o-Xylene	25.0	26.6		ug/L		106	70 - 130	0	20
2,2-Dichloropropane	25.0	27.9		ug/L		111	70 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-225468/6
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: LCSD 720-225468/8
Matrix: Water
Analysis Batch: 225468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Gasoline Range Organics (GRO) -C5-C12	500	450		ug/L		90	71 - 125	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
Toluene-d8 (Surr)	93		70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

GC/MS VOA

Analysis Batch: 225468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80266-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-80266-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-80266-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-225468/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-225468/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-225468/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-225468/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-225468/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Client Sample ID: EFF
Date Collected: 06/21/17 08:30
Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	225468	06/26/17 14:29	JRM	TAL PLS

Client Sample ID: GAC
Date Collected: 06/21/17 08:35
Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	225468	06/26/17 14:00	JRM	TAL PLS

Client Sample ID: INF
Date Collected: 06/21/17 08:40
Date Received: 06/22/17 09:55

Lab Sample ID: 720-80266-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	225468	06/26/17 16:51	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 2
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- 10
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- 12
- 13
- 14

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-80266-1	EFF	Water	06/21/17 08:30	06/22/17 09:55
720-80266-2	GAC	Water	06/21/17 08:35	06/22/17 09:55
720-80266-3	INF	Water	06/21/17 08:40	06/22/17 09:55

- 1
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- 10
- 11
- 12
- 13
- 14

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720-80266
 TESTAMERICA Pleasanton Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 176662
 Date 6.21.17 Page 1 of 1

Report To

Alt: Peter Sims
 Company: Ningo & Moore
 Address: 1956 Webster St., Yuba
 Email: psims@ningoandmoore.com
 Bill To: Yuba
 Sampled By: X UT
 Phone: 510.343.3600

Sample ID	Date	Time	Mat	Preserv	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B	HVOCs by <input type="checkbox"/> EPA 8260B	EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	TEPH EPA 8015B <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	SemiVolatile Organics GC/MS <input type="checkbox"/> EPA 8270C	PNA/PAH's by <input type="checkbox"/> 8270C <input type="checkbox"/> 8270C SIM	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664/9071) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> 6010B <input type="checkbox"/> 200.7 <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Metals: <input type="checkbox"/> 6020 <input type="checkbox"/> 200.8 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> W.E.T (Di) <input type="checkbox"/> TCLP	Hex. Chrom by <input type="checkbox"/> EPA 7196 <input type="checkbox"/> or EPA 7199	pH <input type="checkbox"/> 9040 <input type="checkbox"/> SM4500	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> SS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	<input type="checkbox"/> Perchlorate by EPA 314.0	COD <input type="checkbox"/> EPA 410.4 <input type="checkbox"/> SM5220D <input type="checkbox"/> Turbidity	
EEF	6.21.17	830	GW	HCl	X																		
GAC	6.21.17	835		HCl	X																		
INF	6.21.17	840		HCl	X																		



Project Info. Sample Receipt

Project Name/ #: Chun/ 481896001
 Head Space: _____
 Temp: _____

# of Containers:	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
1	Signature: <u>Alpha Turner</u> Printed Name: <u>Alpha Turner</u> Date: <u>6.21.17</u>	Signature: <u>Robert</u> Printed Name: <u>Robert</u> Date: <u>6/21/17</u>	Signature: _____ Printed Name: _____ Date: _____

credit Card Y/N: _____
 If Yes, please call with payment information ASAP

10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: Routine Level 3 Level 4 EDD EDF
 Special Instructions / Comments: 4.10^v

Terms and Conditions on reverse
 Rev. 10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-80266-1

Login Number: 80266

List Number: 1

Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-79552-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
5/30/2017 3:55:01 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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results through
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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
QC Sample Results	21
QC Association Summary	42
Lab Chronicle	45
Certification Summary	48
Method Summary	50
Sample Summary	51
Chain of Custody	52
Receipt Checklists	56

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Job ID: 720-79552-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-79552-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2017 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-433332 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 433332 recovered outside control limits for the following analytes: Carbon disulfide, Benzene, Methylene Chloride and trans-1,2-Dichloroethene.

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-14 (720-79552-7). Elevated reporting limits (RLs) are provided.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 490-433653 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: Reanalysis of the following sample was performed outside of the analytical holding time due to sample dilution required and prepared after hold time : MW-6R (720-79552-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-10

Lab Sample ID: 720-79552-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	4.5		1.0		mg/L	1		300.0	Total/NA
Iron	6.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.4		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-79552-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	1.3		1.0		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.2		0.50		ug/L	1		8260B	Total/NA
Nitrate as NO3	57		10		mg/L	10		300.0	Total/NA
Iron	8.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	8.1		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 720-79552-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	3.8		1.0		mg/L	1		300.0	Total/NA
Iron	8.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	8.6		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 720-79552-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.51		0.50		ug/L	1		8260B	Total/NA
Nitrite as NO2	1.6		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	77		10		mg/L	10		300.0	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 720-79552-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	57		50		ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.93		0.50		ug/L	1		8260B	Total/NA
Nitrite as NO2	1.0		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	760	H	100		mg/L	100		300.0	Total/NA
Ammonia	10		1.0		mg/L	5		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-79552-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.54		0.50		ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.3		0.50		ug/L	1		8260B	Total/NA
Nitrite as NO2	1.8		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	200		10		mg/L	10		300.0	Total/NA
Iron	9.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	9.1		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 720-79552-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	22000		2500		ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 720-79552-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	760		2.5		ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	170		2.5		ug/L	5		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	28		25		ug/L	5		8260B	Total/NA
Acetone	53		25		ug/L	5		8260B	Total/NA
Benzene	1200		2.5		ug/L	5		8260B	Total/NA
Ethylbenzene	740		2.5		ug/L	5		8260B	Total/NA
Isopropylbenzene	52		5.0		ug/L	5		8260B	Total/NA
Naphthalene	260		25		ug/L	5		8260B	Total/NA
n-Butylbenzene	17		2.5		ug/L	5		8260B	Total/NA
N-Propylbenzene	100		2.5		ug/L	5		8260B	Total/NA
sec-Butylbenzene	5.8		2.5		ug/L	5		8260B	Total/NA
Toluene	2900		25		ug/L	50		8260B	Total/NA
Xylenes, Total	5100		75		ug/L	50		8260B	Total/NA
Nitrite as NO2	1.7		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	46		10		mg/L	10		300.0	Total/NA
Iron	15		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	13		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	2.0	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-10
Date Collected: 05/17/17 10:00
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 11:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 11:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 11:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 11:24	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 11:24	1
GRO (C4-C12)	ND	F1	50		ug/L			05/27/17 11:24	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 11:24	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 11:24	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 11:24	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 11:24	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 11:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 11:24	1
1,2-Dichloropropane	ND	F2	0.50		ug/L			05/27/17 11:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 11:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 11:24	1
2-Butanone (MEK)	ND		50		ug/L			05/27/17 11:24	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 11:24	1
2-Hexanone	ND		5.0		ug/L			05/27/17 11:24	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 11:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 11:24	1
Acetone	ND		5.0		ug/L			05/27/17 11:24	1
Benzene	ND		0.50		ug/L			05/27/17 11:24	1
Bromobenzene	ND		0.50		ug/L			05/27/17 11:24	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 11:24	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 11:24	1
Bromoform	ND		0.50		ug/L			05/27/17 11:24	1
Bromomethane	ND		0.50		ug/L			05/27/17 11:24	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 11:24	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 11:24	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 11:24	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 11:24	1
Chloroethane	ND		0.50		ug/L			05/27/17 11:24	1
Chloroform	ND		0.50		ug/L			05/27/17 11:24	1
Chloromethane	ND		0.50		ug/L			05/27/17 11:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 11:24	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 11:24	1
Dibromomethane	ND	F2	0.50		ug/L			05/27/17 11:24	1
Dichlorodifluoromethane	ND	F1	0.50		ug/L			05/27/17 11:24	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 11:24	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 11:24	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 11:24	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-10
Date Collected: 05/17/17 10:00
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	F2	5.0		ug/L			05/27/17 11:24	1
Naphthalene	ND		5.0		ug/L			05/27/17 11:24	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 11:24	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
Styrene	ND		0.50		ug/L			05/27/17 11:24	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 11:24	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 11:24	1
Toluene	ND		0.50		ug/L			05/27/17 11:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 11:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 11:24	1
Trichloroethene	ND		0.50		ug/L			05/27/17 11:24	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 11:24	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 11:24	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 11:24	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130				05/27/17 11:24	1
4-Bromofluorobenzene (Surr)	102		70 - 130				05/27/17 11:24	1
Dibromofluoromethane (Surr)	91		70 - 130				05/27/17 11:24	1
Toluene-d8 (Surr)	124		70 - 130				05/27/17 11:24	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130				05/27/17 11:24	1
4-Bromofluorobenzene (Surr)	102		70 - 130				05/27/17 11:24	1
Dibromofluoromethane (Surr)	91		70 - 130				05/27/17 11:24	1
Toluene-d8 (Surr)	124		70 - 130				05/27/17 11:24	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/17/17 19:25	1
Nitrate as NO3	4.5		1.0		mg/L			05/17/17 19:25	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.4		1.0		mg/L		05/19/17 11:23	05/22/17 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.4		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:04	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-9
Date Collected: 05/17/17 10:30
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 00:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/28/17 00:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 00:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/28/17 00:05	1
1,1-Dichloroethane	ND		0.50		ug/L			05/28/17 00:05	1
GRO (C4-C12)	ND		50		ug/L			05/28/17 00:05	1
1,1-Dichloroethene	ND		0.50		ug/L			05/28/17 00:05	1
1,1-Dichloropropene	ND		0.50		ug/L			05/28/17 00:05	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/28/17 00:05	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/28/17 00:05	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/28/17 00:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,2-Dichloroethane	ND		0.50		ug/L			05/28/17 00:05	1
1,2-Dichloropropane	ND		0.50		ug/L			05/28/17 00:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
1,3-Dichloropropane	ND		0.50		ug/L			05/28/17 00:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
2,2-Dichloropropane	ND		0.50		ug/L			05/28/17 00:05	1
2-Butanone (MEK)	ND		50		ug/L			05/28/17 00:05	1
2-Chlorotoluene	ND		0.50		ug/L			05/28/17 00:05	1
2-Hexanone	ND		5.0		ug/L			05/28/17 00:05	1
4-Chlorotoluene	ND		0.50		ug/L			05/28/17 00:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/28/17 00:05	1
Acetone	ND		5.0		ug/L			05/28/17 00:05	1
Benzene	ND	*	0.50		ug/L			05/28/17 00:05	1
Bromobenzene	ND		0.50		ug/L			05/28/17 00:05	1
Chlorobromomethane	ND		0.50		ug/L			05/28/17 00:05	1
Dichlorobromomethane	ND		0.50		ug/L			05/28/17 00:05	1
Bromoform	ND		0.50		ug/L			05/28/17 00:05	1
Bromomethane	ND		0.50		ug/L			05/28/17 00:05	1
Carbon disulfide	ND	*	0.50		ug/L			05/28/17 00:05	1
Carbon tetrachloride	ND		0.50		ug/L			05/28/17 00:05	1
Chlorobenzene	ND		0.50		ug/L			05/28/17 00:05	1
Chlorodibromomethane	ND		0.50		ug/L			05/28/17 00:05	1
Chloroethane	ND		0.50		ug/L			05/28/17 00:05	1
Chloroform	ND		0.50		ug/L			05/28/17 00:05	1
Chloromethane	ND		0.50		ug/L			05/28/17 00:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/28/17 00:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 00:05	1
Dibromomethane	ND		0.50		ug/L			05/28/17 00:05	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			05/28/17 00:05	1
Ethylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
Hexachlorobutadiene	ND		1.0		ug/L			05/28/17 00:05	1
Isopropylbenzene	1.3		1.0		ug/L			05/28/17 00:05	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/28/17 00:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-9
Date Collected: 05/17/17 10:30
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	*	5.0		ug/L			05/28/17 00:05	1
Naphthalene	ND		5.0		ug/L			05/28/17 00:05	1
n-Butylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
N-Propylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
4-Isopropyltoluene	ND		0.50		ug/L			05/28/17 00:05	1
sec-Butylbenzene	1.2		0.50		ug/L			05/28/17 00:05	1
Styrene	ND		0.50		ug/L			05/28/17 00:05	1
tert-Butylbenzene	ND		0.50		ug/L			05/28/17 00:05	1
Tetrachloroethene	ND		0.50		ug/L			05/28/17 00:05	1
Toluene	ND		0.50		ug/L			05/28/17 00:05	1
trans-1,2-Dichloroethene	ND	*	0.50		ug/L			05/28/17 00:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 00:05	1
Trichloroethene	ND		0.50		ug/L			05/28/17 00:05	1
Trichlorofluoromethane	ND		0.50		ug/L			05/28/17 00:05	1
Vinyl chloride	ND		0.50		ug/L			05/28/17 00:05	1
Xylenes, Total	ND		1.5		ug/L			05/28/17 00:05	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				05/28/17 00:05	1
4-Bromofluorobenzene (Surr)	101		70 - 130				05/28/17 00:05	1
Dibromofluoromethane (Surr)	97		70 - 130				05/28/17 00:05	1
Toluene-d8 (Surr)	101		70 - 130				05/28/17 00:05	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				05/28/17 00:05	1
4-Bromofluorobenzene (Surr)	101		70 - 130				05/28/17 00:05	1
Dibromofluoromethane (Surr)	97		70 - 130				05/28/17 00:05	1
Toluene-d8 (Surr)	101		70 - 130				05/28/17 00:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/17/17 20:00	1
Nitrate as NO3	57		10		mg/L			05/17/17 20:17	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.1		1.0		mg/L		05/19/17 11:23	05/22/17 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	8.1		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:07	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-15

Date Collected: 05/17/17 11:25

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 00:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/28/17 00:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/28/17 00:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/28/17 00:34	1
1,1-Dichloroethane	ND		0.50		ug/L			05/28/17 00:34	1
GRO (C4-C12)	ND		50		ug/L			05/28/17 00:34	1
1,1-Dichloroethene	ND		0.50		ug/L			05/28/17 00:34	1
1,1-Dichloropropene	ND		0.50		ug/L			05/28/17 00:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/28/17 00:34	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/28/17 00:34	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/28/17 00:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,2-Dichloroethane	ND		0.50		ug/L			05/28/17 00:34	1
1,2-Dichloropropane	ND		0.50		ug/L			05/28/17 00:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
1,3-Dichloropropane	ND		0.50		ug/L			05/28/17 00:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
2,2-Dichloropropane	ND		0.50		ug/L			05/28/17 00:34	1
2-Butanone (MEK)	ND		50		ug/L			05/28/17 00:34	1
2-Chlorotoluene	ND		0.50		ug/L			05/28/17 00:34	1
2-Hexanone	ND		5.0		ug/L			05/28/17 00:34	1
4-Chlorotoluene	ND		0.50		ug/L			05/28/17 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/28/17 00:34	1
Acetone	ND		5.0		ug/L			05/28/17 00:34	1
Benzene	ND *		0.50		ug/L			05/28/17 00:34	1
Bromobenzene	ND		0.50		ug/L			05/28/17 00:34	1
Chlorobromomethane	ND		0.50		ug/L			05/28/17 00:34	1
Dichlorobromomethane	ND		0.50		ug/L			05/28/17 00:34	1
Bromoform	ND		0.50		ug/L			05/28/17 00:34	1
Bromomethane	ND		0.50		ug/L			05/28/17 00:34	1
Carbon disulfide	ND *		0.50		ug/L			05/28/17 00:34	1
Carbon tetrachloride	ND		0.50		ug/L			05/28/17 00:34	1
Chlorobenzene	ND		0.50		ug/L			05/28/17 00:34	1
Chlorodibromomethane	ND		0.50		ug/L			05/28/17 00:34	1
Chloroethane	ND		0.50		ug/L			05/28/17 00:34	1
Chloroform	ND		0.50		ug/L			05/28/17 00:34	1
Chloromethane	ND		0.50		ug/L			05/28/17 00:34	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/28/17 00:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 00:34	1
Dibromomethane	ND		0.50		ug/L			05/28/17 00:34	1
Dichlorodifluoromethane	ND *		0.50		ug/L			05/28/17 00:34	1
Ethylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
Hexachlorobutadiene	ND		1.0		ug/L			05/28/17 00:34	1
Isopropylbenzene	ND		1.0		ug/L			05/28/17 00:34	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/28/17 00:34	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-15

Date Collected: 05/17/17 11:25

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	*	5.0		ug/L			05/28/17 00:34	1
Naphthalene	ND		5.0		ug/L			05/28/17 00:34	1
n-Butylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
N-Propylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
4-Isopropyltoluene	ND		0.50		ug/L			05/28/17 00:34	1
sec-Butylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
Styrene	ND		0.50		ug/L			05/28/17 00:34	1
tert-Butylbenzene	ND		0.50		ug/L			05/28/17 00:34	1
Tetrachloroethene	ND		0.50		ug/L			05/28/17 00:34	1
Toluene	ND		0.50		ug/L			05/28/17 00:34	1
trans-1,2-Dichloroethene	ND	*	0.50		ug/L			05/28/17 00:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/28/17 00:34	1
Trichloroethene	ND		0.50		ug/L			05/28/17 00:34	1
Trichlorofluoromethane	ND		0.50		ug/L			05/28/17 00:34	1
Vinyl chloride	ND		0.50		ug/L			05/28/17 00:34	1
Xylenes, Total	ND		1.5		ug/L			05/28/17 00:34	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130				05/28/17 00:34	1
4-Bromofluorobenzene (Surr)	100		70 - 130				05/28/17 00:34	1
Dibromofluoromethane (Surr)	119		70 - 130				05/28/17 00:34	1
Toluene-d8 (Surr)	102		70 - 130				05/28/17 00:34	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 130				05/28/17 00:34	1
4-Bromofluorobenzene (Surr)	100		70 - 130				05/28/17 00:34	1
Dibromofluoromethane (Surr)	119		70 - 130				05/28/17 00:34	1
Toluene-d8 (Surr)	102		70 - 130				05/28/17 00:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/17/17 20:34	1
Nitrate as NO3	3.8		1.0		mg/L			05/17/17 20:34	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.6		1.0		mg/L		05/19/17 11:23	05/22/17 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	8.6		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:10	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-16
Date Collected: 05/17/17 12:15
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 15:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 15:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 15:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 15:40	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 15:40	1
GRO (C4-C12)	ND		50		ug/L			05/30/17 15:40	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 15:40	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 15:40	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 15:40	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 15:40	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 15:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 15:40	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 15:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 15:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 15:40	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 15:40	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 15:40	1
2-Hexanone	ND		5.0		ug/L			05/30/17 15:40	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 15:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 15:40	1
Acetone	ND		5.0		ug/L			05/30/17 15:40	1
Benzene	ND		0.50		ug/L			05/30/17 15:40	1
Bromobenzene	ND		0.50		ug/L			05/30/17 15:40	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 15:40	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 15:40	1
Bromoform	ND		0.50		ug/L			05/30/17 15:40	1
Bromomethane	ND		0.50		ug/L			05/30/17 15:40	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 15:40	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 15:40	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 15:40	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 15:40	1
Chloroethane	ND		0.50		ug/L			05/30/17 15:40	1
Chloroform	ND		0.50		ug/L			05/30/17 15:40	1
Chloromethane	ND		0.50		ug/L			05/30/17 15:40	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 15:40	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 15:40	1
Dibromomethane	ND		0.50		ug/L			05/30/17 15:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 15:40	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 15:40	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 15:40	1
Methyl tert-butyl ether	0.51		0.50		ug/L			05/30/17 15:40	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-16

Lab Sample ID: 720-79552-4

Date Collected: 05/17/17 12:15

Matrix: Water

Date Received: 05/17/17 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 15:40	1
Naphthalene	ND		5.0		ug/L			05/30/17 15:40	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 15:40	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
Styrene	ND		0.50		ug/L			05/30/17 15:40	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 15:40	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 15:40	1
Toluene	ND		0.50		ug/L			05/30/17 15:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 15:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 15:40	1
Trichloroethene	ND		0.50		ug/L			05/30/17 15:40	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 15:40	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 15:40	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 15:40	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 15:40	1
Dibromofluoromethane (Surr)	96		70 - 130		05/30/17 15:40	1
Toluene-d8 (Surr)	100		70 - 130		05/30/17 15:40	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 15:40	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 15:40	1
Dibromofluoromethane (Surr)	96		70 - 130		05/30/17 15:40	1
Toluene-d8 (Surr)	100		70 - 130		05/30/17 15:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.6		1.0		mg/L			05/17/17 21:42	1
Nitrate as NO3	77		10		mg/L			05/17/17 21:59	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		05/19/17 11:23	05/22/17 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:13	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-6R
Date Collected: 05/17/17 13:30
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 16:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 16:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 16:08	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 16:08	1
GRO (C4-C12)	57		50		ug/L			05/30/17 16:08	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 16:08	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 16:08	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 16:08	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 16:08	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 16:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 16:08	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 16:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 16:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 16:08	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 16:08	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 16:08	1
2-Hexanone	ND		5.0		ug/L			05/30/17 16:08	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 16:08	1
Acetone	ND		5.0		ug/L			05/30/17 16:08	1
Benzene	ND		0.50		ug/L			05/30/17 16:08	1
Bromobenzene	ND		0.50		ug/L			05/30/17 16:08	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 16:08	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 16:08	1
Bromoform	ND		0.50		ug/L			05/30/17 16:08	1
Bromomethane	ND		0.50		ug/L			05/30/17 16:08	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 16:08	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 16:08	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 16:08	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 16:08	1
Chloroethane	ND		0.50		ug/L			05/30/17 16:08	1
Chloroform	ND		0.50		ug/L			05/30/17 16:08	1
Chloromethane	ND		0.50		ug/L			05/30/17 16:08	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 16:08	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 16:08	1
Dibromomethane	ND		0.50		ug/L			05/30/17 16:08	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 16:08	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 16:08	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 16:08	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 16:08	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-6R

Lab Sample ID: 720-79552-5

Date Collected: 05/17/17 13:30

Matrix: Water

Date Received: 05/17/17 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 16:08	1
Naphthalene	ND		5.0		ug/L			05/30/17 16:08	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 16:08	1
sec-Butylbenzene	0.93		0.50		ug/L			05/30/17 16:08	1
Styrene	ND		0.50		ug/L			05/30/17 16:08	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 16:08	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 16:08	1
Toluene	ND		0.50		ug/L			05/30/17 16:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 16:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 16:08	1
Trichloroethene	ND		0.50		ug/L			05/30/17 16:08	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 16:08	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 16:08	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 16:08	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				05/30/17 16:08	1
4-Bromofluorobenzene (Surr)	100		70 - 130				05/30/17 16:08	1
Dibromofluoromethane (Surr)	103		70 - 130				05/30/17 16:08	1
Toluene-d8 (Surr)	100		70 - 130				05/30/17 16:08	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				05/30/17 16:08	1
4-Bromofluorobenzene (Surr)	100		70 - 130				05/30/17 16:08	1
Dibromofluoromethane (Surr)	103		70 - 130				05/30/17 16:08	1
Toluene-d8 (Surr)	100		70 - 130				05/30/17 16:08	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.0		1.0		mg/L			05/17/17 22:19	1
Nitrate as NO3	760	H	100		mg/L			05/19/17 20:19	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		05/19/17 11:23	05/22/17 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	10		1.0		mg/L		05/21/17 23:20	05/22/17 18:16	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-13

Date Collected: 05/17/17 14:35

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 14:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 14:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 14:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 14:43	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 14:43	1
GRO (C4-C12)	ND		50		ug/L			05/30/17 14:43	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 14:43	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 14:43	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 14:43	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 14:43	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 14:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,2-Dichloroethane	0.54		0.50		ug/L			05/30/17 14:43	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 14:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 14:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 14:43	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 14:43	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 14:43	1
2-Hexanone	ND		5.0		ug/L			05/30/17 14:43	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 14:43	1
Acetone	ND		5.0		ug/L			05/30/17 14:43	1
Benzene	ND		0.50		ug/L			05/30/17 14:43	1
Bromobenzene	ND		0.50		ug/L			05/30/17 14:43	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 14:43	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 14:43	1
Bromoform	ND		0.50		ug/L			05/30/17 14:43	1
Bromomethane	ND		0.50		ug/L			05/30/17 14:43	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 14:43	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 14:43	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 14:43	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 14:43	1
Chloroethane	ND		0.50		ug/L			05/30/17 14:43	1
Chloroform	ND		0.50		ug/L			05/30/17 14:43	1
Chloromethane	ND		0.50		ug/L			05/30/17 14:43	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 14:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 14:43	1
Dibromomethane	ND		0.50		ug/L			05/30/17 14:43	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 14:43	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 14:43	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 14:43	1
Methyl tert-butyl ether	1.3		0.50		ug/L			05/30/17 14:43	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-13

Lab Sample ID: 720-79552-6

Date Collected: 05/17/17 14:35

Matrix: Water

Date Received: 05/17/17 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 14:43	1
Naphthalene	ND		5.0		ug/L			05/30/17 14:43	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 14:43	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
Styrene	ND		0.50		ug/L			05/30/17 14:43	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 14:43	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 14:43	1
Toluene	ND		0.50		ug/L			05/30/17 14:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 14:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 14:43	1
Trichloroethene	ND		0.50		ug/L			05/30/17 14:43	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 14:43	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 14:43	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		05/30/17 14:43	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 14:43	1
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 14:43	1
Toluene-d8 (Surr)	100		70 - 130		05/30/17 14:43	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		05/30/17 14:43	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/30/17 14:43	1
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 14:43	1
Toluene-d8 (Surr)	100		70 - 130		05/30/17 14:43	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.8		1.0		mg/L			05/17/17 22:53	1
Nitrate as NO3	200		10		mg/L			05/17/17 23:10	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9.1		1.0		mg/L		05/19/17 11:23	05/22/17 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	9.1		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	ND	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:24	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-14

Date Collected: 05/17/17 15:10

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 11:52	5
1,1,1-Trichloroethane	ND		2.5		ug/L			05/27/17 11:52	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 11:52	5
1,1,2-Trichloroethane	ND		2.5		ug/L			05/27/17 11:52	5
1,1-Dichloroethane	ND		2.5		ug/L			05/27/17 11:52	5
GRO (C4-C12)	22000		2500		ug/L			05/27/17 14:13	50
1,1-Dichloroethene	ND		2.5		ug/L			05/27/17 11:52	5
1,1-Dichloropropene	ND		2.5		ug/L			05/27/17 11:52	5
1,2,3-Trichlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
1,2,3-Trichloropropane	ND		2.5		ug/L			05/27/17 11:52	5
1,2,4-Trichlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
1,2,4-Trimethylbenzene	760		2.5		ug/L			05/27/17 11:52	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			05/27/17 11:52	5
1,2-Dibromoethane (EDB)	ND		2.5		ug/L			05/27/17 11:52	5
1,2-Dichlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
1,2-Dichloroethane	ND		2.5		ug/L			05/27/17 11:52	5
1,2-Dichloropropane	ND		2.5		ug/L			05/27/17 11:52	5
1,3,5-Trimethylbenzene	170		2.5		ug/L			05/27/17 11:52	5
1,3-Dichlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
1,3-Dichloropropane	ND		2.5		ug/L			05/27/17 11:52	5
1,4-Dichlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
2,2-Dichloropropane	ND		2.5		ug/L			05/27/17 11:52	5
2-Butanone (MEK)	ND		250		ug/L			05/27/17 11:52	5
2-Chlorotoluene	ND		2.5		ug/L			05/27/17 11:52	5
2-Hexanone	ND		25		ug/L			05/27/17 11:52	5
4-Chlorotoluene	ND		2.5		ug/L			05/27/17 11:52	5
4-Methyl-2-pentanone (MIBK)	28		25		ug/L			05/27/17 11:52	5
Acetone	53		25		ug/L			05/27/17 11:52	5
Benzene	1200		2.5		ug/L			05/27/17 11:52	5
Bromobenzene	ND		2.5		ug/L			05/27/17 11:52	5
Chlorobromomethane	ND		2.5		ug/L			05/27/17 11:52	5
Dichlorobromomethane	ND		2.5		ug/L			05/27/17 11:52	5
Bromoform	ND		2.5		ug/L			05/27/17 11:52	5
Bromomethane	ND		2.5		ug/L			05/27/17 11:52	5
Carbon disulfide	ND		2.5		ug/L			05/27/17 11:52	5
Carbon tetrachloride	ND		2.5		ug/L			05/27/17 11:52	5
Chlorobenzene	ND		2.5		ug/L			05/27/17 11:52	5
Chlorodibromomethane	ND		2.5		ug/L			05/27/17 11:52	5
Chloroethane	ND		2.5		ug/L			05/27/17 11:52	5
Chloroform	ND		2.5		ug/L			05/27/17 11:52	5
Chloromethane	ND		2.5		ug/L			05/27/17 11:52	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 11:52	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 11:52	5
Dibromomethane	ND		2.5		ug/L			05/27/17 11:52	5
Dichlorodifluoromethane	ND		2.5		ug/L			05/27/17 11:52	5
Ethylbenzene	740		2.5		ug/L			05/27/17 11:52	5
Hexachlorobutadiene	ND		5.0		ug/L			05/27/17 11:52	5
Isopropylbenzene	52		5.0		ug/L			05/27/17 11:52	5
Methyl tert-butyl ether	ND		2.5		ug/L			05/27/17 11:52	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-14
Date Collected: 05/17/17 15:10
Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		25		ug/L			05/27/17 11:52	5
Naphthalene	260		25		ug/L			05/27/17 11:52	5
n-Butylbenzene	17		2.5		ug/L			05/27/17 11:52	5
N-Propylbenzene	100		2.5		ug/L			05/27/17 11:52	5
4-Isopropyltoluene	ND		2.5		ug/L			05/27/17 11:52	5
sec-Butylbenzene	5.8		2.5		ug/L			05/27/17 11:52	5
Styrene	ND		2.5		ug/L			05/27/17 11:52	5
tert-Butylbenzene	ND		2.5		ug/L			05/27/17 11:52	5
Tetrachloroethene	ND		2.5		ug/L			05/27/17 11:52	5
Toluene	2900		25		ug/L			05/27/17 14:13	50
trans-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 11:52	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 11:52	5
Trichloroethene	ND		2.5		ug/L			05/27/17 11:52	5
Trichlorofluoromethane	ND		2.5		ug/L			05/27/17 11:52	5
Vinyl chloride	ND		2.5		ug/L			05/27/17 11:52	5
Xylenes, Total	5100		75		ug/L			05/27/17 14:13	50

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					05/27/17 11:52	5
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					05/27/17 14:13	50
4-Bromofluorobenzene (Surr)	99		70 - 130					05/27/17 11:52	5
4-Bromofluorobenzene (Surr)	99		70 - 130					05/27/17 14:13	50
Dibromofluoromethane (Surr)	93		70 - 130					05/27/17 11:52	5
Dibromofluoromethane (Surr)	98		70 - 130					05/27/17 14:13	50
Toluene-d8 (Surr)	100		70 - 130					05/27/17 11:52	5
Toluene-d8 (Surr)	99		70 - 130					05/27/17 14:13	50
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					05/27/17 11:52	5
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					05/27/17 14:13	50
4-Bromofluorobenzene (Surr)	99		70 - 130					05/27/17 11:52	5
4-Bromofluorobenzene (Surr)	99		70 - 130					05/27/17 14:13	50
Dibromofluoromethane (Surr)	93		70 - 130					05/27/17 11:52	5
Dibromofluoromethane (Surr)	98		70 - 130					05/27/17 14:13	50
Toluene-d8 (Surr)	100		70 - 130					05/27/17 11:52	5
Toluene-d8 (Surr)	99		70 - 130					05/27/17 14:13	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.7		1.0		mg/L			05/17/17 23:27	1
Nitrate as NO3	46		10		mg/L			05/17/17 23:44	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15		1.0		mg/L		05/19/17 11:23	05/22/17 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	13		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	2.0	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 18:27	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-433313/9

Matrix: Water

Analysis Batch: 433313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/27/17 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/27/17 08:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 08:23	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 08:23	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 08:23	1

Lab Sample ID: LCS 490-433313/7

Matrix: Water

Analysis Batch: 433313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	944		ug/L		94	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 490-433314/9

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 08:23	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433314/9
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			05/27/17 08:23	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 08:23	1
2-Hexanone	ND		5.0		ug/L			05/27/17 08:23	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 08:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 08:23	1
Acetone	ND		5.0		ug/L			05/27/17 08:23	1
Benzene	ND		0.50		ug/L			05/27/17 08:23	1
Bromobenzene	ND		0.50		ug/L			05/27/17 08:23	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Bromoform	ND		0.50		ug/L			05/27/17 08:23	1
Bromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 08:23	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 08:23	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Chloroethane	ND		0.50		ug/L			05/27/17 08:23	1
Chloroform	ND		0.50		ug/L			05/27/17 08:23	1
Chloromethane	ND		0.50		ug/L			05/27/17 08:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
Dibromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/17 08:23	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 08:23	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 08:23	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 08:23	1
Methylene Chloride	ND		5.0		ug/L			05/27/17 08:23	1
Naphthalene	ND		5.0		ug/L			05/27/17 08:23	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 08:23	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Styrene	ND		0.50		ug/L			05/27/17 08:23	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 08:23	1
Toluene	ND		0.50		ug/L			05/27/17 08:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
Trichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 08:23	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 08:23	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/27/17 08:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 08:23	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 08:23	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433314/9
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		05/27/17 08:23	1

Lab Sample ID: LCS 490-433314/3
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	70 - 135
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	69 - 131
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	70 - 130
1,1-Dichloroethane	20.0	21.7		ug/L		109	70 - 130
1,1-Dichloroethene	20.0	23.6		ug/L		118	70 - 132
1,1-Dichloropropene	20.0	19.0		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	20.0	17.2		ug/L		86	46 - 150
1,2,3-Trichloropropane	20.0	16.4		ug/L		82	70 - 131
1,2,4-Trichlorobenzene	20.0	16.9		ug/L		84	58 - 147
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	45 - 138
1,2-Dibromoethane (EDB)	20.0	17.9		ug/L		90	70 - 130
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	17.9		ug/L		90	70 - 130
1,2-Dichloropropane	20.0	18.7		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	70 - 130
1,3-Dichlorobenzene	20.0	18.9		ug/L		95	70 - 130
1,3-Dichloropropane	20.0	17.8		ug/L		89	70 - 130
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	70 - 130
2,2-Dichloropropane	20.0	16.3		ug/L		81	60 - 143
2-Butanone (MEK)	100	78.8		ug/L		79	55 - 143
2-Chlorotoluene	20.0	19.4		ug/L		97	70 - 130
2-Hexanone	100	84.4		ug/L		84	54 - 142
4-Chlorotoluene	20.0	19.1		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	100	85.6		ug/L		86	60 - 137
Acetone	100	97.6		ug/L		98	39 - 150
Benzene	20.0	19.7		ug/L		98	70 - 130
Bromobenzene	20.0	19.0		ug/L		95	70 - 130
Chlorobromomethane	20.0	17.2		ug/L		86	70 - 130
Dichlorobromomethane	20.0	19.1		ug/L		95	70 - 130
Bromoform	20.0	17.9		ug/L		89	70 - 137
Bromomethane	20.0	19.4		ug/L		97	53 - 150
Carbon disulfide	20.0	22.6		ug/L		113	64 - 135
Carbon tetrachloride	20.0	19.5		ug/L		97	70 - 147
Chlorobenzene	20.0	19.3		ug/L		96	70 - 130
Chlorodibromomethane	20.0	19.4		ug/L		97	70 - 133
Chloroethane	20.0	21.1		ug/L		106	60 - 138
Chloroform	20.0	18.8		ug/L		94	70 - 130
Chloromethane	20.0	24.5		ug/L		123	33 - 150
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433314/3

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	17.7		ug/L		88	70 - 133
Dibromomethane	20.0	18.9		ug/L		94	70 - 130
Dichlorodifluoromethane	20.0	29.4		ug/L		147	48 - 150
Ethylbenzene	20.0	19.5		ug/L		97	70 - 130
Hexachlorobutadiene	20.0	17.6		ug/L		88	70 - 138
Isopropylbenzene	20.0	19.4		ug/L		97	70 - 131
Methyl tert-butyl ether	20.0	20.5		ug/L		102	70 - 130
Methylene Chloride	20.0	23.2		ug/L		116	70 - 130
Naphthalene	20.0	17.0		ug/L		85	54 - 150
n-Butylbenzene	20.0	18.1		ug/L		91	68 - 137
N-Propylbenzene	20.0	19.4		ug/L		97	70 - 134
4-Isopropyltoluene	20.0	18.3		ug/L		92	66 - 130
sec-Butylbenzene	20.0	18.7		ug/L		94	70 - 135
Styrene	20.0	18.9		ug/L		95	70 - 130
tert-Butylbenzene	20.0	18.9		ug/L		95	70 - 130
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 130
Toluene	20.0	19.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	70 - 130
trans-1,3-Dichloropropene	20.0	17.0		ug/L		85	63 - 142
Trichloroethene	20.0	19.4		ug/L		97	70 - 130
Trichlorofluoromethane	20.0	21.1		ug/L		105	59 - 150
Vinyl chloride	20.0	21.9		ug/L		110	57 - 137
Xylenes, Total	40.0	38.4		ug/L		96	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 490-433314/4

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	70 - 130	0	13
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	70 - 135	0	15
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/L		94	69 - 131	0	15
1,1,2-Trichloroethane	20.0	18.5		ug/L		92	70 - 130	2	13
1,1-Dichloroethane	20.0	22.6		ug/L		113	70 - 130	4	17
1,1-Dichloroethene	20.0	23.2		ug/L		116	70 - 132	2	20
1,1-Dichloropropene	20.0	18.8		ug/L		94	70 - 130	1	16
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		86	46 - 150	1	16
1,2,3-Trichloropropane	20.0	17.2		ug/L		86	70 - 131	5	14
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	58 - 147	3	15
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130	3	13
1,2-Dibromo-3-Chloropropane	20.0	17.0		ug/L		85	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	17.9		ug/L		89	70 - 130	0	13

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433314/4

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	70 - 130	2	12
1,2-Dichloroethane	20.0	17.6		ug/L		88	70 - 130	2	13
1,2-Dichloropropane	20.0	19.4		ug/L		97	70 - 130	4	15
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	70 - 130	2	14
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	70 - 130	1	13
1,3-Dichloropropane	20.0	17.8		ug/L		89	70 - 130	0	12
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130	2	12
2,2-Dichloropropane	20.0	18.8		ug/L		94	60 - 143	15	20
2-Butanone (MEK)	100	95.8		ug/L		96	55 - 143	19	19
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130	2	15
2-Hexanone	100	82.9		ug/L		83	54 - 142	2	17
4-Chlorotoluene	20.0	19.6		ug/L		98	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	84.4		ug/L		84	60 - 137	1	21
Acetone	100	100		ug/L		100	39 - 150	2	23
Benzene	20.0	19.7		ug/L		98	70 - 130	0	12
Bromobenzene	20.0	19.2		ug/L		96	70 - 130	1	16
Chlorobromomethane	20.0	17.5		ug/L		87	70 - 130	1	16
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130	1	14
Bromoform	20.0	18.0		ug/L		90	70 - 137	1	14
Bromomethane	20.0	19.8		ug/L		99	53 - 150	2	19
Carbon disulfide	20.0	21.9		ug/L		110	64 - 135	3	16
Carbon tetrachloride	20.0	19.6		ug/L		98	70 - 147	1	16
Chlorobenzene	20.0	19.2		ug/L		96	70 - 130	1	12
Chlorodibromomethane	20.0	19.4		ug/L		97	70 - 133	0	13
Chloroethane	20.0	21.4		ug/L		107	60 - 138	1	15
Chloroform	20.0	18.3		ug/L		91	70 - 130	3	14
Chloromethane	20.0	24.2		ug/L		121	33 - 150	1	20
cis-1,2-Dichloroethene	20.0	21.8		ug/L		109	70 - 130	14	15
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	70 - 133	0	15
Dibromomethane	20.0	18.5		ug/L		92	70 - 130	2	14
Dichlorodifluoromethane	20.0	29.4		ug/L		147	48 - 150	0	16
Ethylbenzene	20.0	19.7		ug/L		99	70 - 130	1	12
Hexachlorobutadiene	20.0	18.6		ug/L		93	70 - 138	6	16
Isopropylbenzene	20.0	19.5		ug/L		97	70 - 131	1	13
Methyl tert-butyl ether	20.0	20.3		ug/L		101	70 - 130	1	16
Methylene Chloride	20.0	23.0		ug/L		115	70 - 130	1	15
Naphthalene	20.0	17.1		ug/L		85	54 - 150	1	15
n-Butylbenzene	20.0	18.7		ug/L		93	68 - 137	3	14
N-Propylbenzene	20.0	20.0		ug/L		100	70 - 134	3	14
4-Isopropyltoluene	20.0	19.0		ug/L		95	66 - 130	4	13
sec-Butylbenzene	20.0	19.6		ug/L		98	70 - 135	4	14
Styrene	20.0	18.9		ug/L		94	70 - 130	0	12
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130	4	14
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130	0	17
Toluene	20.0	20.1		ug/L		100	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	70 - 130	0	15
trans-1,3-Dichloropropene	20.0	17.3		ug/L		86	63 - 142	2	13
Trichloroethene	20.0	19.6		ug/L		98	70 - 130	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433314/4

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	20.0	21.9		ug/L		110	59 - 150	4	22
Vinyl chloride	20.0	22.0		ug/L		110	57 - 137	0	15
Xylenes, Total	40.0	38.4		ug/L		96	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 720-79552-1 MS

Matrix: Water

Analysis Batch: 433314

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	22.0		ug/L		110	70 - 131
1,1,1-Trichloroethane	ND		20.0	20.8		ug/L		104	68 - 144
1,1,1,2,2-Tetrachloroethane	ND		20.0	20.4		ug/L		102	56 - 145
1,1,2-Trichloroethane	ND		20.0	20.3		ug/L		102	70 - 130
1,1-Dichloroethane	ND		20.0	19.9		ug/L		99	61 - 139
1,1-Dichloroethene	ND		20.0	25.6		ug/L		128	54 - 150
1,1-Dichloropropene	ND		20.0	21.2		ug/L		106	54 - 150
1,2,3-Trichlorobenzene	ND		20.0	18.8		ug/L		94	36 - 150
1,2,3-Trichloropropane	ND		20.0	18.0		ug/L		90	65 - 131
1,2,4-Trichlorobenzene	ND		20.0	18.9		ug/L		95	47 - 147
1,2,4-Trimethylbenzene	ND		20.0	21.2		ug/L		106	64 - 136
1,2-Dibromo-3-Chloropropane	ND		20.0	17.5		ug/L		88	38 - 138
1,2-Dibromoethane (EDB)	ND		20.0	19.6		ug/L		98	65 - 137
1,2-Dichlorobenzene	ND		20.0	20.9		ug/L		105	70 - 130
1,2-Dichloroethane	ND		20.0	19.4		ug/L		97	64 - 136
1,2-Dichloropropane	ND	F2	20.0	21.0		ug/L		105	67 - 130
1,3,5-Trimethylbenzene	ND		20.0	21.1		ug/L		106	69 - 139
1,3-Dichlorobenzene	ND		20.0	21.0		ug/L		105	68 - 131
1,3-Dichloropropane	ND		20.0	19.6		ug/L		98	70 - 130
1,4-Dichlorobenzene	ND		20.0	20.9		ug/L		104	70 - 130
2,2-Dichloropropane	ND		20.0	21.2		ug/L		106	50 - 146
2-Butanone (MEK)	ND		100	82.0		ug/L		82	50 - 143
2-Chlorotoluene	ND		20.0	21.7		ug/L		109	67 - 138
2-Hexanone	ND		100	88.8		ug/L		89	44 - 150
4-Chlorotoluene	ND		20.0	21.2		ug/L		106	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		100	91.7		ug/L		92	50 - 140
Acetone	ND		100	107		ug/L		107	39 - 150
Benzene	ND		20.0	22.0		ug/L		110	55 - 147
Bromobenzene	ND		20.0	20.9		ug/L		104	60 - 133
Chlorobromomethane	ND		20.0	18.7		ug/L		94	59 - 132
Dichlorobromomethane	ND		20.0	21.3		ug/L		107	70 - 140
Bromoform	ND		20.0	19.7		ug/L		99	53 - 150
Bromomethane	ND		20.0	19.2		ug/L		96	30 - 150

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79552-1 MS

Matrix: Water

Analysis Batch: 433314

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND		20.0	23.9		ug/L		120	35 - 150
Carbon tetrachloride	ND		20.0	22.4		ug/L		112	56 - 150
Chlorobenzene	ND		20.0	21.2		ug/L		106	70 - 130
Chlorodibromomethane	ND		20.0	21.2		ug/L		106	66 - 140
Chloroethane	ND		20.0	21.2		ug/L		106	58 - 141
Chloroform	ND		20.0	20.7		ug/L		103	66 - 138
Chloromethane	ND		20.0	25.7		ug/L		129	10 - 150
cis-1,2-Dichloroethene	ND		20.0	20.4		ug/L		102	68 - 131
cis-1,3-Dichloropropene	ND		20.0	19.8		ug/L		99	70 - 133
Dibromomethane	ND	F2	20.0	20.2		ug/L		101	70 - 130
Dichlorodifluoromethane	ND	F1	20.0	30.3	F1	ug/L		152	10 - 150
Ethylbenzene	ND		20.0	21.8		ug/L		109	65 - 139
Hexachlorobutadiene	ND		20.0	19.7		ug/L		99	61 - 141
Isopropylbenzene	ND		20.0	21.8		ug/L		109	70 - 137
Methyl tert-butyl ether	ND		20.0	21.5		ug/L		108	55 - 141
Methylene Chloride	ND	F2	20.0	25.9		ug/L		129	64 - 130
Naphthalene	ND		20.0	18.0		ug/L		90	32 - 150
n-Butylbenzene	ND		20.0	21.4		ug/L		107	61 - 141
N-Propylbenzene	ND		20.0	22.0		ug/L		110	53 - 150
4-Isopropyltoluene	ND		20.0	20.9		ug/L		105	66 - 137
sec-Butylbenzene	ND		20.0	21.5		ug/L		108	55 - 136
Styrene	ND		20.0	20.8		ug/L		104	70 - 130
tert-Butylbenzene	ND		20.0	21.4		ug/L		107	70 - 138
Tetrachloroethene	ND		20.0	21.9		ug/L		109	57 - 138
Toluene	ND		20.0	21.9		ug/L		110	64 - 136
trans-1,2-Dichloroethene	ND		20.0	23.6		ug/L		118	59 - 143
trans-1,3-Dichloropropene	ND		20.0	19.1		ug/L		95	63 - 142
Trichloroethene	ND		20.0	21.9		ug/L		109	63 - 135
Trichlorofluoromethane	ND		20.0	27.6		ug/L		138	44 - 150
Vinyl chloride	ND		20.0	23.4		ug/L		117	57 - 150
Xylenes, Total	ND		40.0	42.6		ug/L		107	69 - 132

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-79552-1 MSD

Matrix: Water

Analysis Batch: 433314

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	21.5		ug/L		107	70 - 131	2	16
1,1,1-Trichloroethane	ND		20.0	19.3		ug/L		96	68 - 144	8	17
1,1,2,2-Tetrachloroethane	ND		20.0	20.2		ug/L		101	56 - 145	1	19
1,1,2-Trichloroethane	ND		20.0	20.2		ug/L		101	70 - 130	0	18
1,1-Dichloroethane	ND		20.0	19.6		ug/L		98	61 - 139	1	23

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79552-1 MSD
Matrix: Water
Analysis Batch: 433314

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		20.0	20.4		ug/L		102	54 - 150	22	24
1,1-Dichloropropene	ND		20.0	20.4		ug/L		102	54 - 150	4	24
1,2,3-Trichlorobenzene	ND		20.0	19.0		ug/L		95	36 - 150	1	43
1,2,3-Trichloropropane	ND		20.0	18.4		ug/L		92	65 - 131	2	19
1,2,4-Trichlorobenzene	ND		20.0	18.9		ug/L		95	47 - 147	0	24
1,2,4-Trimethylbenzene	ND		20.0	20.7		ug/L		104	64 - 136	2	18
1,2-Dibromo-3-Chloropropane	ND		20.0	18.0		ug/L		90	38 - 138	3	26
1,2-Dibromoethane (EDB)	ND		20.0	19.6		ug/L		98	65 - 137	0	21
1,2-Dichlorobenzene	ND		20.0	20.8		ug/L		104	70 - 130	1	15
1,2-Dichloroethane	ND		20.0	16.7		ug/L		83	64 - 136	15	22
1,2-Dichloropropane	ND	F2	20.0	17.0	F2	ug/L		85	67 - 130	21	19
1,3,5-Trimethylbenzene	ND		20.0	20.9		ug/L		104	69 - 139	1	17
1,3-Dichlorobenzene	ND		20.0	20.7		ug/L		104	68 - 131	2	14
1,3-Dichloropropane	ND		20.0	19.3		ug/L		96	70 - 130	1	17
1,4-Dichlorobenzene	ND		20.0	20.5		ug/L		103	70 - 130	2	14
2,2-Dichloropropane	ND		20.0	19.7		ug/L		98	50 - 146	7	20
2-Butanone (MEK)	ND		100	85.3		ug/L		85	50 - 143	4	28
2-Chlorotoluene	ND		20.0	21.1		ug/L		105	67 - 138	3	17
2-Hexanone	ND		100	89.4		ug/L		89	44 - 150	1	21
4-Chlorotoluene	ND		20.0	21.1		ug/L		106	69 - 138	0	15
4-Methyl-2-pentanone (MIBK)	ND		100	91.5		ug/L		91	50 - 140	0	24
Acetone	ND		100	87.8		ug/L		88	39 - 150	19	28
Benzene	ND		20.0	21.0		ug/L		105	55 - 147	5	22
Bromobenzene	ND		20.0	20.7		ug/L		103	60 - 133	1	18
Chlorobromomethane	ND		20.0	17.8		ug/L		89	59 - 132	5	21
Dichlorobromomethane	ND		20.0	16.8		ug/L		84	70 - 140	23	196
Bromoform	ND		20.0	19.6		ug/L		98	53 - 150	0	20
Bromomethane	ND		20.0	15.9		ug/L		79	30 - 150	19	44
Carbon disulfide	ND		20.0	17.8		ug/L		89	35 - 150	29	34
Carbon tetrachloride	ND		20.0	19.2		ug/L		96	56 - 150	15	18
Chlorobenzene	ND		20.0	20.8		ug/L		104	70 - 130	2	15
Chlorodibromomethane	ND		20.0	20.8		ug/L		104	66 - 140	2	19
Chloroethane	ND		20.0	18.4		ug/L		92	58 - 141	14	31
Chloroform	ND		20.0	19.1		ug/L		96	66 - 138	8	21
Chloromethane	ND		20.0	20.4		ug/L		102	10 - 150	23	43
cis-1,2-Dichloroethene	ND		20.0	20.1		ug/L		101	68 - 131	2	21
cis-1,3-Dichloropropene	ND		20.0	19.7		ug/L		99	70 - 133	0	19
Dibromomethane	ND	F2	20.0	16.3	F2	ug/L		81	70 - 130	22	19
Dichlorodifluoromethane	ND	F1	20.0	23.9		ug/L		119	10 - 150	24	50
Ethylbenzene	ND		20.0	21.5		ug/L		107	65 - 139	2	18
Hexachlorobutadiene	ND		20.0	20.0		ug/L		100	61 - 141	1	26
Isopropylbenzene	ND		20.0	21.7		ug/L		109	70 - 137	0	17
Methyl tert-butyl ether	ND		20.0	17.3		ug/L		86	55 - 141	22	24
Methylene Chloride	ND	F2	20.0	20.0	F2	ug/L		100	64 - 130	25	22
Naphthalene	ND		20.0	18.4		ug/L		92	32 - 150	2	40
n-Butylbenzene	ND		20.0	21.0		ug/L		105	61 - 141	2	17
N-Propylbenzene	ND		20.0	21.8		ug/L		109	53 - 150	1	18
4-Isopropyltoluene	ND		20.0	20.6		ug/L		103	66 - 137	1	16

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-79552-1 MSD
Matrix: Water
Analysis Batch: 433314

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		20.0	21.4		ug/L		107	55 - 136	1	50
Styrene	ND		20.0	20.8		ug/L		104	70 - 130	0	16
tert-Butylbenzene	ND		20.0	21.0		ug/L		105	70 - 138	2	17
Tetrachloroethene	ND		20.0	21.3		ug/L		107	57 - 138	2	17
Toluene	ND		20.0	21.7		ug/L		109	64 - 136	1	18
trans-1,2-Dichloroethene	ND		20.0	19.6		ug/L		98	59 - 143	18	25
trans-1,3-Dichloropropene	ND		20.0	19.1		ug/L		96	63 - 142	0	18
Trichloroethene	ND		20.0	21.2		ug/L		106	63 - 135	3	17
Trichlorofluoromethane	ND		20.0	21.6		ug/L		108	44 - 150	25	32
Vinyl chloride	ND		20.0	18.5		ug/L		93	57 - 150	23	37
Xylenes, Total	ND		40.0	42.1		ug/L		105	69 - 132	1	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433331/9
Matrix: Water
Analysis Batch: 433331

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/27/17 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433331/7
Matrix: Water
Analysis Batch: 433331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	997		ug/L		100	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433331/4

Matrix: Water

Analysis Batch: 433331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433332/9

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 20:48	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
2-Butanone (MEK)	ND		50		ug/L			05/27/17 20:48	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
2-Hexanone	ND		5.0		ug/L			05/27/17 20:48	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 20:48	1
Acetone	ND		5.0		ug/L			05/27/17 20:48	1
Benzene	ND		0.50		ug/L			05/27/17 20:48	1
Bromobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Bromoform	ND		0.50		ug/L			05/27/17 20:48	1
Bromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 20:48	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Chloroethane	ND		0.50		ug/L			05/27/17 20:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433332/9

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.50		ug/L			05/27/17 20:48	1
Chloromethane	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Dibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 20:48	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 20:48	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 20:48	1
Methylene Chloride	ND		5.0		ug/L			05/27/17 20:48	1
Naphthalene	ND		5.0		ug/L			05/27/17 20:48	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 20:48	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Styrene	ND		0.50		ug/L			05/27/17 20:48	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Toluene	ND		0.50		ug/L			05/27/17 20:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Trichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 20:48	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433332/3

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	70 - 135
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	69 - 131
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethane	20.0	23.0		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	24.3		ug/L		122	70 - 132
1,1-Dichloropropene	20.0	24.0		ug/L		120	70 - 130
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		91	46 - 150
1,2,3-Trichloropropane	20.0	16.8		ug/L		84	70 - 131
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	58 - 147

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433332/3

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		87	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.8		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,2-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	18.7		ug/L		94	70 - 130
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 130
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 143
2-Butanone (MEK)	100	102		ug/L		102	55 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	70 - 130
2-Hexanone	100	87.4		ug/L		87	54 - 142
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	88.0		ug/L		88	60 - 137
Acetone	100	104		ug/L		104	39 - 150
Benzene	20.0	24.8		ug/L		124	70 - 130
Bromobenzene	20.0	20.1		ug/L		100	70 - 130
Chlorobromomethane	20.0	21.9		ug/L		109	70 - 130
Dichlorobromomethane	20.0	20.0		ug/L		100	70 - 130
Bromoform	20.0	18.8		ug/L		94	70 - 137
Bromomethane	20.0	20.6		ug/L		103	53 - 150
Carbon disulfide	20.0	23.6		ug/L		118	64 - 135
Carbon tetrachloride	20.0	23.2		ug/L		116	70 - 147
Chlorobenzene	20.0	19.9		ug/L		100	70 - 130
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 133
Chloroethane	20.0	23.0		ug/L		115	60 - 138
Chloroform	20.0	23.4		ug/L		117	70 - 130
Chloromethane	20.0	25.5		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	24.1		ug/L		121	70 - 130
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133
Dibromomethane	20.0	19.1		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	30.5	*	ug/L		153	48 - 150
Ethylbenzene	20.0	20.3		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138
Isopropylbenzene	20.0	20.3		ug/L		102	70 - 131
Methyl tert-butyl ether	20.0	20.5		ug/L		103	70 - 130
Methylene Chloride	20.0	23.7		ug/L		119	70 - 130
Naphthalene	20.0	17.5		ug/L		87	54 - 150
n-Butylbenzene	20.0	19.7		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.3		ug/L		102	70 - 135
Styrene	20.0	19.6		ug/L		98	70 - 130
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130
Toluene	20.0	20.9		ug/L		105	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433332/3
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	20.0	23.1		ug/L		115	70 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142
Trichloroethene	20.0	20.4		ug/L		102	70 - 130
Trichlorofluoromethane	20.0	25.9		ug/L		129	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	116		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433332/4
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	0	13
1,1,1-Trichloroethane	20.0	22.4		ug/L		112	70 - 135	2	15
1,1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	69 - 131	2	15
1,1,1,2-Trichloroethane	20.0	19.3		ug/L		97	70 - 130	1	13
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	17	17
1,1-Dichloroethene	20.0	23.4		ug/L		117	70 - 132	4	20
1,1-Dichloropropene	20.0	23.4		ug/L		117	70 - 130	2	16
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		92	46 - 150	1	16
1,2,3-Trichloropropane	20.0	17.7		ug/L		88	70 - 131	5	14
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/L		89	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.3		ug/L		96	70 - 130	3	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	0	12
1,2-Dichloroethane	20.0	18.7		ug/L		93	70 - 130	8	13
1,2-Dichloropropane	20.0	20.0		ug/L		100	70 - 130	3	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	70 - 130	2	14
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 130	1	13
1,3-Dichloropropane	20.0	18.8		ug/L		94	70 - 130	0	12
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	2	12
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 143	2	20
2-Butanone (MEK)	100	98.3		ug/L		98	55 - 143	4	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	2	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	2	17
4-Chlorotoluene	20.0	20.4		ug/L		102	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	90.5		ug/L		90	60 - 137	3	21
Acetone	100	103		ug/L		103	39 - 150	1	23
Benzene	20.0	20.6	*	ug/L		103	70 - 130	19	12
Bromobenzene	20.0	20.3		ug/L		102	70 - 130	1	16
Chlorobromomethane	20.0	20.8		ug/L		104	70 - 130	5	16

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433332/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	19.8		ug/L		99	70 - 130	1	14
Bromoform	20.0	19.1		ug/L		96	70 - 137	2	14
Bromomethane	20.0	20.9		ug/L		104	53 - 150	1	19
Carbon disulfide	20.0	19.2	*	ug/L		96	64 - 135	21	16
Carbon tetrachloride	20.0	22.6		ug/L		113	70 - 147	3	16
Chlorobenzene	20.0	19.9		ug/L		99	70 - 130	0	12
Chlorodibromomethane	20.0	20.1		ug/L		100	70 - 133	1	13
Chloroethane	20.0	20.7		ug/L		104	60 - 138	11	15
Chloroform	20.0	22.2		ug/L		111	70 - 130	5	14
Chloromethane	20.0	25.9		ug/L		129	33 - 150	1	20
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	70 - 130	4	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	0	15
Dibromomethane	20.0	19.9		ug/L		100	70 - 130	4	14
Dichlorodifluoromethane	20.0	31.1	*	ug/L		156	48 - 150	2	16
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130	1	12
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138	0	16
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.6		ug/L		88	70 - 130	15	16
Methylene Chloride	20.0	19.3	*	ug/L		96	70 - 130	21	15
Naphthalene	20.0	18.1		ug/L		90	54 - 150	3	15
n-Butylbenzene	20.0	19.8		ug/L		99	68 - 137	1	14
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134	0	14
4-Isopropyltoluene	20.0	19.7		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	19.9		ug/L		99	70 - 135	2	14
Styrene	20.0	19.7		ug/L		98	70 - 130	0	12
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.5		ug/L		103	70 - 130	0	17
Toluene	20.0	20.7		ug/L		103	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	18.9	*	ug/L		94	70 - 130	20	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	63 - 142	0	13
Trichloroethene	20.0	20.3		ug/L		101	70 - 130	1	14
Trichlorofluoromethane	20.0	24.9		ug/L		124	59 - 150	4	22
Vinyl chloride	20.0	23.0		ug/L		115	57 - 137	1	15
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132	0	11

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433516/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433516

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (C4-C12)	ND		50		ug/L			05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433516/9
Matrix: Water
Analysis Batch: 433516

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

Lab Sample ID: LCS 490-433516/7
Matrix: Water
Analysis Batch: 433516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	976		ug/L		98	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 490-433517/9
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 13:47	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 13:47	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1
2-Hexanone	ND		5.0		ug/L			05/30/17 13:47	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433517/9
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 13:47	1
Acetone	ND		5.0		ug/L			05/30/17 13:47	1
Benzene	ND		0.50		ug/L			05/30/17 13:47	1
Bromobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Bromoform	ND		0.50		ug/L			05/30/17 13:47	1
Bromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 13:47	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 13:47	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroform	ND		0.50		ug/L			05/30/17 13:47	1
Chloromethane	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Dibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 13:47	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 13:47	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 13:47	1
Methylene Chloride	ND		5.0		ug/L			05/30/17 13:47	1
Naphthalene	ND		5.0		ug/L			05/30/17 13:47	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 13:47	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Styrene	ND		0.50		ug/L			05/30/17 13:47	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Toluene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Trichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 13:47	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 13:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	69 - 131
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	21.9		ug/L		110	70 - 130
1,1-Dichloroethene	20.0	23.5		ug/L		117	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	18.3		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130
1,2-Dichloroethane	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloropropane	20.0	19.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130
2,2-Dichloropropane	20.0	20.6		ug/L		103	60 - 143
2-Butanone (MEK)	100	97.8		ug/L		98	55 - 143
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130
2-Hexanone	100	98.4		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.9		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	100	99.3		ug/L		99	60 - 137
Acetone	100	125		ug/L		125	39 - 150
Benzene	20.0	20.4		ug/L		102	70 - 130
Bromobenzene	20.0	19.9		ug/L		99	70 - 130
Chlorobromomethane	20.0	19.6		ug/L		98	70 - 130
Dichlorobromomethane	20.0	20.6		ug/L		103	70 - 130
Bromoform	20.0	20.7		ug/L		104	70 - 137
Bromomethane	20.0	22.0		ug/L		110	53 - 150
Carbon disulfide	20.0	22.7		ug/L		114	64 - 135
Carbon tetrachloride	20.0	20.4		ug/L		102	70 - 147
Chlorobenzene	20.0	19.8		ug/L		99	70 - 130
Chlorodibromomethane	20.0	21.2		ug/L		106	70 - 133
Chloroethane	20.0	22.5		ug/L		112	60 - 138
Chloroform	20.0	19.7		ug/L		99	70 - 130
Chloromethane	20.0	25.7		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	70 - 133
Dibromomethane	20.0	20.2		ug/L		101	70 - 130
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150
Ethylbenzene	20.0	20.2		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		97	70 - 138
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131
Methyl tert-butyl ether	20.0	22.7		ug/L		113	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	20.0	22.8		ug/L		114	70 - 130
Naphthalene	20.0	18.9		ug/L		95	54 - 150
n-Butylbenzene	20.0	19.6		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.2		ug/L		101	70 - 134
4-Isopropyltoluene	20.0	19.5		ug/L		98	66 - 130
sec-Butylbenzene	20.0	19.6		ug/L		98	70 - 135
Styrene	20.0	19.7		ug/L		98	70 - 130
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130
Toluene	20.0	20.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	22.6		ug/L		113	70 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	63 - 142
Trichloroethene	20.0	19.9		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	22.2		ug/L		111	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.7		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433517/4

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	2	13
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	70 - 135	7	15
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	69 - 131	2	15
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	70 - 130	4	13
1,1-Dichloroethane	20.0	22.9		ug/L		115	70 - 130	5	17
1,1-Dichloroethene	20.0	23.7		ug/L		118	70 - 132	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		101	70 - 130	1	16
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	18.1		ug/L		90	70 - 131	1	14
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	18.9		ug/L		94	70 - 130	5	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	1	12
1,2-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	1	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	5	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130	1	14
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	0	13
1,3-Dichloropropane	20.0	18.9		ug/L		95	70 - 130	2	12
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	12

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433517/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 433517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	20.0	22.9		ug/L		115	60 - 143	11	20
2-Butanone (MEK)	100	109		ug/L		109	55 - 143	11	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	3	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	10	17
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130	0	15
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/L		95	60 - 137	5	21
Acetone	100	107		ug/L		107	39 - 150	15	23
Benzene	20.0	20.3		ug/L		101	70 - 130	0	12
Bromobenzene	20.0	20.1		ug/L		100	70 - 130	1	16
Chlorobromomethane	20.0	21.5		ug/L		107	70 - 130	9	16
Dichlorobromomethane	20.0	21.0		ug/L		105	70 - 130	2	14
Bromoform	20.0	19.6		ug/L		98	70 - 137	6	14
Bromomethane	20.0	21.5		ug/L		108	53 - 150	2	19
Carbon disulfide	20.0	23.4		ug/L		117	64 - 135	3	16
Carbon tetrachloride	20.0	20.5		ug/L		102	70 - 147	0	16
Chlorobenzene	20.0	19.5		ug/L		98	70 - 130	2	12
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 133	3	13
Chloroethane	20.0	20.8		ug/L		104	60 - 138	8	15
Chloroform	20.0	22.6		ug/L		113	70 - 130	14	14
Chloromethane	20.0	25.6		ug/L		128	33 - 150	0	20
cis-1,2-Dichloroethene	20.0	24.0	*	ug/L		120	70 - 130	18	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	2	15
Dibromomethane	20.0	20.5		ug/L		103	70 - 130	2	14
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150	0	16
Ethylbenzene	20.0	19.8		ug/L		99	70 - 130	2	12
Hexachlorobutadiene	20.0	19.6		ug/L		98	70 - 138	1	16
Isopropylbenzene	20.0	19.9		ug/L		100	70 - 131	1	13
Methyl tert-butyl ether	20.0	21.5		ug/L		108	70 - 130	5	16
Methylene Chloride	20.0	23.7		ug/L		118	70 - 130	4	15
Naphthalene	20.0	18.4		ug/L		92	54 - 150	3	15
n-Butylbenzene	20.0	19.7		ug/L		99	68 - 137	1	14
N-Propylbenzene	20.0	20.5		ug/L		102	70 - 134	2	14
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	20.0		ug/L		100	70 - 135	2	14
Styrene	20.0	19.3		ug/L		96	70 - 130	2	12
tert-Butylbenzene	20.0	19.7		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130	0	17
Toluene	20.0	20.1		ug/L		101	70 - 130	0	13
trans-1,2-Dichloroethene	20.0	22.9		ug/L		115	70 - 130	1	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142	4	13
Trichloroethene	20.0	21.0		ug/L		105	70 - 130	5	14
Trichlorofluoromethane	20.0	22.3		ug/L		111	59 - 150	0	22
Vinyl chloride	20.0	22.5		ug/L		113	57 - 137	1	15
Xylenes, Total	40.0	39.0		ug/L		98	70 - 132	2	11

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433517/4
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
Dibromofluoromethane (Surr)	111		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-223177/4
Matrix: Water
Analysis Batch: 223177

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/17/17 15:33	1
Nitrate as NO3	ND		1.0		mg/L			05/17/17 15:33	1

Lab Sample ID: LCS 720-223177/5
Matrix: Water
Analysis Batch: 223177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.9		mg/L		109	90 - 110
Nitrate as NO3	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: MB 720-223343/4
Matrix: Water
Analysis Batch: 223343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/19/17 19:06	1
Nitrate as NO3	ND		1.0		mg/L			05/19/17 19:06	1

Lab Sample ID: LCS 720-223343/5
Matrix: Water
Analysis Batch: 223343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.6		mg/L		106	90 - 110
Nitrate as NO3	10.0	10.5		mg/L		105	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-223304/1-A
Matrix: Water
Analysis Batch: 223407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		05/19/17 11:17	05/22/17 09:28	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-223304/2-A
Matrix: Water
Analysis Batch: 223407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	10.0	10.3		mg/L		103	85 - 115

Lab Sample ID: 720-79552-4 MS
Matrix: Water
Analysis Batch: 223407

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 223304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	ND		10.0	10.4		mg/L		100	70 - 130

Lab Sample ID: 720-79552-4 MSD
Matrix: Water
Analysis Batch: 223407

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 223304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	ND		10.0	10.4		mg/L		100	70 - 130	0	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-223324/10
Matrix: Water
Analysis Batch: 223324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			05/19/17 15:08	1

Lab Sample ID: LCS 720-223324/11
Matrix: Water
Analysis Batch: 223324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ferrous Iron	1.00	1.02		mg/L		102	85 - 115

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-386149/1-A
Matrix: Water
Analysis Batch: 386362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/21/17 23:20	05/22/17 17:16	1

Lab Sample ID: LCS 500-386149/2-A
Matrix: Water
Analysis Batch: 386362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.57		mg/L		103	80 - 120

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

GC/MS VOA

Analysis Batch: 433313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	8260B	
720-79552-7	MW-14	Total/NA	Water	8260B	
720-79552-7	MW-14	Total/NA	Water	8260B	
MB 490-433313/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433313/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 433314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	8260B	
720-79552-7	MW-14	Total/NA	Water	8260B	
720-79552-7	MW-14	Total/NA	Water	8260B	
MB 490-433314/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433314/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433314/4	Lab Control Sample Dup	Total/NA	Water	8260B	
720-79552-1 MS	MW-10	Total/NA	Water	8260B	
720-79552-1 MSD	MW-10	Total/NA	Water	8260B	

Analysis Batch: 433331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-2	MW-9	Total/NA	Water	8260B	
720-79552-3	MW-15	Total/NA	Water	8260B	
MB 490-433331/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433331/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433331/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-2	MW-9	Total/NA	Water	8260B	
720-79552-3	MW-15	Total/NA	Water	8260B	
MB 490-433332/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433332/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433332/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-4	MW-16	Total/NA	Water	8260B	
720-79552-5	MW-6R	Total/NA	Water	8260B	
720-79552-6	MW-13	Total/NA	Water	8260B	
MB 490-433516/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433516/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 433517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-4	MW-16	Total/NA	Water	8260B	
720-79552-5	MW-6R	Total/NA	Water	8260B	
720-79552-6	MW-13	Total/NA	Water	8260B	
MB 490-433517/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433517/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433517/4	Lab Control Sample Dup	Total/NA	Water	8260B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

HPLC/IC

Analysis Batch: 223177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	300.0	
720-79552-2	MW-9	Total/NA	Water	300.0	
720-79552-2	MW-9	Total/NA	Water	300.0	
720-79552-3	MW-15	Total/NA	Water	300.0	
720-79552-4	MW-16	Total/NA	Water	300.0	
720-79552-4	MW-16	Total/NA	Water	300.0	
720-79552-5	MW-6R	Total/NA	Water	300.0	
720-79552-6	MW-13	Total/NA	Water	300.0	
720-79552-6	MW-13	Total/NA	Water	300.0	
720-79552-7	MW-14	Total/NA	Water	300.0	
720-79552-7	MW-14	Total/NA	Water	300.0	
MB 720-223177/4	Method Blank	Total/NA	Water	300.0	
LCS 720-223177/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 223343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-5	MW-6R	Total/NA	Water	300.0	
MB 720-223343/4	Method Blank	Total/NA	Water	300.0	
LCS 720-223343/5	Lab Control Sample	Total/NA	Water	300.0	
720-79552-5 MS	MW-6R	Total/NA	Water	300.0	
720-79552-5 MSD	MW-6R	Total/NA	Water	300.0	

Metals

Prep Batch: 223304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	200.7	
720-79552-2	MW-9	Total/NA	Water	200.7	
720-79552-3	MW-15	Total/NA	Water	200.7	
720-79552-4	MW-16	Total/NA	Water	200.7	
720-79552-5	MW-6R	Total/NA	Water	200.7	
720-79552-6	MW-13	Total/NA	Water	200.7	
720-79552-7	MW-14	Total/NA	Water	200.7	
MB 720-223304/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-223304/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-79552-4 MS	MW-16	Total/NA	Water	200.7	
720-79552-4 MSD	MW-16	Total/NA	Water	200.7	

Analysis Batch: 223407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-2	MW-9	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-3	MW-15	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-4	MW-16	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-5	MW-6R	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-6	MW-13	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-7	MW-14	Total/NA	Water	200.7 Rev 4.4	223304
MB 720-223304/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	223304
LCS 720-223304/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	223304
720-79552-4 MS	MW-16	Total/NA	Water	200.7 Rev 4.4	223304

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Metals (Continued)

Analysis Batch: 223407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-4 MSD	MW-16	Total/NA	Water	200.7 Rev 4.4	223304

General Chemistry

Analysis Batch: 223324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	SM 3500 Fe B	
720-79552-2	MW-9	Total/NA	Water	SM 3500 Fe B	
720-79552-3	MW-15	Total/NA	Water	SM 3500 Fe B	
720-79552-4	MW-16	Total/NA	Water	SM 3500 Fe B	
720-79552-5	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-79552-6	MW-13	Total/NA	Water	SM 3500 Fe B	
720-79552-7	MW-14	Total/NA	Water	SM 3500 Fe B	
MB 720-223324/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-223324/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 223465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	SM 3500	
720-79552-2	MW-9	Total/NA	Water	SM 3500	
720-79552-3	MW-15	Total/NA	Water	SM 3500	
720-79552-4	MW-16	Total/NA	Water	SM 3500	
720-79552-5	MW-6R	Total/NA	Water	SM 3500	
720-79552-6	MW-13	Total/NA	Water	SM 3500	
720-79552-7	MW-14	Total/NA	Water	SM 3500	

Prep Batch: 386149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	SM 4500 NH3 B	
720-79552-2	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-79552-3	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-79552-4	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-79552-5	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-79552-6	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-79552-7	MW-14	Total/NA	Water	SM 4500 NH3 B	
MB 500-386149/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-386149/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 386362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79552-1	MW-10	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-2	MW-9	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-3	MW-15	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-4	MW-16	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-5	MW-6R	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-6	MW-13	Total/NA	Water	SM 4500 NH3 G	386149
720-79552-7	MW-14	Total/NA	Water	SM 4500 NH3 G	386149
MB 500-386149/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	386149
LCS 500-386149/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	386149

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-10

Date Collected: 05/17/17 10:00

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433313	05/27/17 11:24	P1B	TAL NSH
Total/NA	Analysis	8260B		1	433314	05/27/17 11:24	P1B	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 19:25	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 10:38	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:04	HMW	TAL CHI

Client Sample ID: MW-9

Date Collected: 05/17/17 10:30

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433331	05/28/17 00:05	AK1	TAL NSH
Total/NA	Analysis	8260B		1	433332	05/28/17 00:05	AK1	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 20:00	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223177	05/17/17 20:17	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 10:42	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:07	HMW	TAL CHI

Client Sample ID: MW-15

Date Collected: 05/17/17 11:25

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433331	05/28/17 00:34	AK1	TAL NSH
Total/NA	Analysis	8260B		1	433332	05/28/17 00:34	AK1	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 20:34	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 10:46	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:10	HMW	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-16

Date Collected: 05/17/17 12:15

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433516	05/30/17 15:40	JRV	TAL NSH
Total/NA	Analysis	8260B		1	433517	05/30/17 15:40	JRV	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 21:42	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223177	05/17/17 21:59	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 10:34	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:13	HMW	TAL CHI

Client Sample ID: MW-6R

Date Collected: 05/17/17 13:30

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433516	05/30/17 16:08	JRV	TAL NSH
Total/NA	Analysis	8260B		1	433517	05/30/17 16:08	JRV	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 22:19	ECB	TAL PLS
Total/NA	Analysis	300.0		100	223343	05/19/17 20:19	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 10:50	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		5	386362	05/22/17 18:16	HMW	TAL CHI

Client Sample ID: MW-13

Date Collected: 05/17/17 14:35

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433516	05/30/17 14:43	JRV	TAL NSH
Total/NA	Analysis	8260B		1	433517	05/30/17 14:43	JRV	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 22:53	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223177	05/17/17 23:10	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 11:01	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Client Sample ID: MW-13

Date Collected: 05/17/17 14:35

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:24	HMW	TAL CHI

Client Sample ID: MW-14

Date Collected: 05/17/17 15:10

Date Received: 05/17/17 16:50

Lab Sample ID: 720-79552-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	433313	05/27/17 11:52	P1B	TAL NSH
Total/NA	Analysis	8260B		5	433314	05/27/17 11:52	P1B	TAL NSH
Total/NA	Analysis	8260B		50	433313	05/27/17 14:13	P1B	TAL NSH
Total/NA	Analysis	8260B		50	433314	05/27/17 14:13	P1B	TAL NSH
Total/NA	Analysis	300.0		1	223177	05/17/17 23:27	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223177	05/17/17 23:44	ECB	TAL PLS
Total/NA	Prep	200.7			223304	05/19/17 11:23	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223407	05/22/17 11:05	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386149	05/21/17 23:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386362	05/22/17 18:27	HMW	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-18
Indiana	State Program	5	C-IL-02	04-30-18
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17
Kentucky (UST)	State Program	4	66	04-30-18
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18
North Carolina (WW/SW)	State Program	4	291	12-31-17
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	04-30-17 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17 *

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	09-01-17
Arizona	State Program	9	AZ0473	05-05-17 *
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pleasanton

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-79552-1	MW-10	Water	05/17/17 10:00	05/17/17 16:50
720-79552-2	MW-9	Water	05/17/17 10:30	05/17/17 16:50
720-79552-3	MW-15	Water	05/17/17 11:25	05/17/17 16:50
720-79552-4	MW-16	Water	05/17/17 12:15	05/17/17 16:50
720-79552-5	MW-6R	Water	05/17/17 13:30	05/17/17 16:50
720-79552-6	MW-13	Water	05/17/17 14:35	05/17/17 16:50
720-79552-7	MW-14	Water	05/17/17 15:10	05/17/17 16:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600 3002

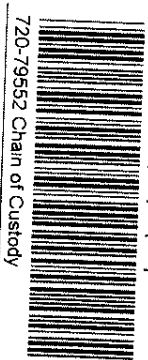
Chain of Custody Record
720-79552

TestAmerica
1759600
TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager: Peter Sims		Date: 5.17.17	
1956 Webster Street, #400		Tel/Fax: 510.343.3000		Carrier:	
Oakland/CA/94612		Analysis Turnaround Time		COC No	
510-343-3000 Phone		<input type="checkbox"/> CALENDAR DAYS		1 of 1 COCs	
(510) 343-3001 FAX		<input checked="" type="checkbox"/> WORKING DAYS		Sampler ALT	
Project Name: Chun		TAT if different from Below		For Lab Use Only:	
Site 401896004		<input type="checkbox"/> 2 weeks		Walk-in Client	
P O #		<input checked="" type="checkbox"/> 1 week		Lab Sampling	
		<input type="checkbox"/> 2 days		Job / SDG No	
		<input type="checkbox"/> 1 day		Sample Specific Notes	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grav)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Ferric Iron by calculation	Ferrous Iron; SM 3500 Fe D	Iron; EPA 200.7	Nitrate, Nitrite; EPA 300.0	Nitrogen, Ammonia; SM 4500-NH3 D	TPH-g; EPA 8015B	VOCs; EPA 8260B
MW-10	5.17.17	1000		W	9	X	X	X	X	X	X	X	X	X
MW-7	5.17.17	1030		W	9	X	X	X	X	X	X	X	X	X
MW-15		1125		W	9	X	X	X	X	X	X	X	X	X
MW-16		1215		W	9	X	X	X	X	X	X	X	X	X
MW-UR		1330		W	9	X	X	X	X	X	X	X	X	X
MW-13		1435		W	9	X	X	X	X	X	X	X	X	X
MW-14		1510		W	9	X	X	X	X	X	X	X	X	X



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Cor'd:	Therm ID No.:
Relinquished by: <i>[Signature]</i>	Company: <i>NAW</i>	Received by: <i>[Signature]</i>	Date/Time: 5.17.17 1330	Company: <i>TH</i>	Date/Time: 5.17.17 1530
Relinquished by: <i>[Signature]</i>	Company: <i>TH</i>	Received in Laboratory by: <i>[Signature]</i>	Date/Time: 5.17.17 1600	Company: <i>TH</i>	Date/Time: 5.17.17 1650



COOLER RECEIPT FORM

Cooler Received/Opened On 5/25/2017 @ 1020

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 9542 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470368 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 5.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA YES

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA YES

6. Were custody papers inside cooler? YES...NO...NA YES

I certify that I opened the cooler and answered questions 1-6 (initial) HG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA NA

Were these signed and dated correctly? YES...NO...NA NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA YES

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA YES

12. Did all container labels and tags agree with custody papers? YES...NO...NA YES

13a. Were VOA vials received? YES...NO...NA YES

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA NA

16. Was residual chlorine present? YES...NO...NA NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA YES

18. Did you sign the custody papers in the appropriate place? YES...NO...NA YES

19. Were correct containers used for the analysis requested? YES...NO...NA YES

20. Was sufficient amount of sample sent in each container? YES...NO...NA YES

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ES

I certify that I attached a label with the unique LIMS number to each container (initial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

TestAmerica Pleasanton
 1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

720-79552

estAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Lab PM: Duong, Paloma R																																																																																	
Client Contact: Shipping/Receiving		E-Mail: paloma.duong@testamericainc.com																																																																																	
Company: TestAmerica Laboratories, Inc		State of Origin: California																																																																																	
Address: 2960 Foster Creighton Drive, Nashville, TN, 37204		C.No.: 20-34150.1																																																																																	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		Page: Page 1 of 1																																																																																	
Email:		Job #: 720-79552-1																																																																																	
Project Name: Chun		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - Ash/NaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCAAA W - pH 4-5 Z - other (specify)																																																																																	
Site: SSOW#:		Special Instructions/Note:																																																																																	
<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastewater)</th> <th>Field Filtered Sample (Yes or No)</th> <th>8260B LL/5030B Standard Range Organics (GRO)</th> <th>8260B LL/5030B Gasoline Range Organics (GRO)</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-10 (720-79552-1)</td> <td>5/17/17</td> <td>10:00 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-9 (720-79552-2)</td> <td>5/17/17</td> <td>10:30 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-15 (720-79552-3)</td> <td>5/17/17</td> <td>11:25 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-16 (720-79552-4)</td> <td>5/17/17</td> <td>12:15 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-6R (720-79552-5)</td> <td>5/17/17</td> <td>13:30 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-13 (720-79552-6)</td> <td>5/17/17</td> <td>14:35 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> <tr> <td>MW-14 (720-79552-7)</td> <td>5/17/17</td> <td>15:10 Pacific</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> </tbody> </table>				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No)	8260B LL/5030B Standard Range Organics (GRO)	8260B LL/5030B Gasoline Range Organics (GRO)	Total Number of Containers	Special Instructions/Note:	MW-10 (720-79552-1)	5/17/17	10:00 Pacific	Water	Water	X	X	X	3		MW-9 (720-79552-2)	5/17/17	10:30 Pacific	Water	Water	X	X	X	3		MW-15 (720-79552-3)	5/17/17	11:25 Pacific	Water	Water	X	X	X	3		MW-16 (720-79552-4)	5/17/17	12:15 Pacific	Water	Water	X	X	X	3		MW-6R (720-79552-5)	5/17/17	13:30 Pacific	Water	Water	X	X	X	3		MW-13 (720-79552-6)	5/17/17	14:35 Pacific	Water	Water	X	X	X	3		MW-14 (720-79552-7)	5/17/17	15:10 Pacific	Water	Water	X	X	X	3	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No)	8260B LL/5030B Standard Range Organics (GRO)	8260B LL/5030B Gasoline Range Organics (GRO)	Total Number of Containers	Special Instructions/Note:																																																																										
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<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/retention being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>																																																																																			
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____</p>																																																																																			
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>																																																																																			
<p>Special Instructions/QC Requirements:</p>																																																																																			
Empty Kit Relinquished by:		Time:																																																																																	
Relinquished by: <i>John Hudson</i>		Date: 5-24-17																																																																																	
Relinquished by:		Company: <i>Geo Pkcs</i>																																																																																	
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Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:																																																																																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																																																																																	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM: Duong, Paloma R		Carrier Tracking No(s):		COC No: 720-34060.1							
Client Contact: Shipping/Receiving		Phone:		E-Mail: paloma.duong@testamericainc.com		State of Origin: California		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): State Program - California				Job #: 720-79552-1							
Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484 Phone: 708-534-5200(Tel) 708-534-5211(Fax) Email:		Due Date Requested: 5/23/2017 TAT Requested (days):		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)							
Project Name: Chun		Project #: 72010606													
Site:		SSOW#:		Field, Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field	Filtered	Sample	Yes	No	MS/MSD	Yes	No	Containers	Special Instructions/Note:
MW-10 (720-79552-1)		5/17/17	10:00 Pacific		Water	X									
MW-9 (720-79552-2)		5/17/17	10:30 Pacific		Water	X									
MW-15 (720-79552-3)		5/17/17	11:25 Pacific		Water	X									
MW-16 (720-79552-4)		5/17/17	12:15 Pacific		Water	X									
MW-6R (720-79552-5)		5/17/17	13:30 Pacific		Water	X									
MW-13 (720-79552-6)		5/17/17	14:35 Pacific		Water	X									
MW-14 (720-79552-7)		5/17/17	15:10 Pacific		Water	X									
720-79552 COC															
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>															
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2				Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:			
Relinquished by: <i>Don Miller</i>				Date/Time: <i>5-18-17 1000</i>				Company: <i>Peace</i>				Received by: <i>[Signature]</i>			
				Date/Time:				Company:				Date/Time: <i>05/19/17 @ 0900</i>			
				Date/Time:				Company:				Date/Time:			
				Date/Time:				Company:				Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>4.9</i>											

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79552-1

Login Number: 79552

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79552-1

Login Number: 79552
List Number: 2
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 05/19/17 01:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79552-1

Login Number: 79552
List Number: 3
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 05/19/17 02:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79552-1

Login Number: 79552
List Number: 4
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 05/25/17 03:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-79601-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
5/30/2017 3:48:27 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
QC Sample Results	20
QC Association Summary	38
Lab Chronicle	41
Certification Summary	44
Method Summary	46
Sample Summary	47
Chain of Custody	48
Receipt Checklists	52

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Job ID: 720-79601-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-79601-1

Comments

No additional comments.

Receipt

The samples were received on 5/18/2017 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-433332 recovered outside control limits for the following analyte: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 433332 recovered outside control limits for the following analytes: Carbon disulfide, Benzene, Methylene Chloride and trans-1,2-Dichloroethene.

Method 8260B: The following samples was diluted due to the nature of the sample matrix: MW-11R (720-79601-4), MW-5R (720-79601-5) and MW-7R (720-79601-6). Elevated reporting limits (RLs) are provided.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 490-433653 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-8

Lab Sample ID: 720-79601-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	1000		50		ug/L	1		8260B	Total/NA
Acetone	6.9		5.0		ug/L	1		8260B	Total/NA
Benzene	3.3		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	1.5		0.50		ug/L	1		8260B	Total/NA
Isopropylbenzene	8.5		1.0		ug/L	1		8260B	Total/NA
Naphthalene	26		5.0		ug/L	1		8260B	Total/NA
N-Propylbenzene	8.4		0.50		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.0		0.50		ug/L	1		8260B	Total/NA
Toluene	4.0		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	9.3		1.5		ug/L	1		8260B	Total/NA
Nitrate as NO3	10		1.0		mg/L	1		300.0	Total/NA
Iron	12		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	11		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.92	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 720-79601-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	14000		2500		ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	320		0.50		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	70		0.50		ug/L	1		8260B	Total/NA
2-Chlorotoluene	36		0.50		ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	15		5.0		ug/L	1		8260B	Total/NA
Acetone	15		5.0		ug/L	1		8260B	Total/NA
Benzene	1800		25		ug/L	50		8260B	Total/NA
Ethylbenzene	810		25		ug/L	50		8260B	Total/NA
Isopropylbenzene	31		1.0		ug/L	1		8260B	Total/NA
Naphthalene	130		5.0		ug/L	1		8260B	Total/NA
n-Butylbenzene	5.0		0.50		ug/L	1		8260B	Total/NA
N-Propylbenzene	56		0.50		ug/L	1		8260B	Total/NA
4-Isopropyltoluene	0.80		0.50		ug/L	1		8260B	Total/NA
Toluene	2900		25		ug/L	50		8260B	Total/NA
Xylenes, Total	3300		75		ug/L	50		8260B	Total/NA
Nitrate as NO3	47		10		mg/L	10		300.0	Total/NA
Iron	4.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	0.50		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.9	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.69		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 720-79601-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	1300		250		ug/L	5		8260B	Total/NA
Benzene	1100		2.5		ug/L	5		8260B	Total/NA
Ethylbenzene	3.4		2.5		ug/L	5		8260B	Total/NA
Toluene	3.0		2.5		ug/L	5		8260B	Total/NA
Iron	79		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	76		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.2	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-11R

Lab Sample ID: 720-79601-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	15000		250		ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene	710		2.5		ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	180		2.5		ug/L	5		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	38		25		ug/L	5		8260B	Total/NA
Benzene	1000		2.5		ug/L	5		8260B	Total/NA
Ethylbenzene	420		2.5		ug/L	5		8260B	Total/NA
Isopropylbenzene	44		5.0		ug/L	5		8260B	Total/NA
Naphthalene	170		25		ug/L	5		8260B	Total/NA
N-Propylbenzene	96		2.5		ug/L	5		8260B	Total/NA
4-Isopropyltoluene	3.3		2.5		ug/L	5		8260B	Total/NA
sec-Butylbenzene	9.4		2.5		ug/L	5		8260B	Total/NA
Toluene	890		2.5		ug/L	5		8260B	Total/NA
Xylenes, Total	2100		7.5		ug/L	5		8260B	Total/NA
Nitrite as NO2	1.5		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	7.8		1.0		mg/L	1		300.0	Total/NA
Iron	8.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	10	HF	1.0		mg/L	10		SM 3500 Fe B	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 720-79601-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	39000		2500		ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	1500		5.0		ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	350		5.0		ug/L	10		8260B	Total/NA
Benzene	85		5.0		ug/L	10		8260B	Total/NA
Ethylbenzene	1400		5.0		ug/L	10		8260B	Total/NA
Isopropylbenzene	110		10		ug/L	10		8260B	Total/NA
Naphthalene	540		50		ug/L	10		8260B	Total/NA
n-Butylbenzene	40		5.0		ug/L	10		8260B	Total/NA
N-Propylbenzene	210		5.0		ug/L	10		8260B	Total/NA
sec-Butylbenzene	15		5.0		ug/L	10		8260B	Total/NA
Toluene	930		5.0		ug/L	10		8260B	Total/NA
Xylenes, Total	8300		75		ug/L	50		8260B	Total/NA
Iron	1.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	1.9	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	1.0		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 720-79601-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	85000		2500		ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	2800		25		ug/L	50		8260B	Total/NA
1,3,5-Trimethylbenzene	730		25		ug/L	50		8260B	Total/NA
Acetone	360		250		ug/L	50		8260B	Total/NA
Benzene	510		25		ug/L	50		8260B	Total/NA
Ethylbenzene	470		25		ug/L	50		8260B	Total/NA
Isopropylbenzene	120		50		ug/L	50		8260B	Total/NA
Naphthalene	740		250		ug/L	50		8260B	Total/NA
N-Propylbenzene	240		25		ug/L	50		8260B	Total/NA
Toluene	4000		25		ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-7R (Continued)

Lab Sample ID: 720-79601-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	22000		75		ug/L	50		8260B	Total/NA
Nitrite as NO2	15		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	56		10		mg/L	10		300.0	Total/NA
Iron	2.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	2.8		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.10	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.84		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-8
Date Collected: 05/18/17 09:50
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 14:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 14:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 14:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 14:15	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 14:15	1
GRO (C4-C12)	1000		50		ug/L			05/30/17 14:15	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 14:15	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 14:15	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 14:15	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 14:15	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 14:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 14:15	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 14:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 14:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 14:15	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 14:15	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 14:15	1
2-Hexanone	ND		5.0		ug/L			05/30/17 14:15	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 14:15	1
Acetone	6.9		5.0		ug/L			05/30/17 14:15	1
Benzene	3.3		0.50		ug/L			05/30/17 14:15	1
Bromobenzene	ND		0.50		ug/L			05/30/17 14:15	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 14:15	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 14:15	1
Bromoform	ND		0.50		ug/L			05/30/17 14:15	1
Bromomethane	ND		0.50		ug/L			05/30/17 14:15	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 14:15	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 14:15	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 14:15	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 14:15	1
Chloroethane	ND		0.50		ug/L			05/30/17 14:15	1
Chloroform	ND		0.50		ug/L			05/30/17 14:15	1
Chloromethane	ND		0.50		ug/L			05/30/17 14:15	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 14:15	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 14:15	1
Dibromomethane	ND		0.50		ug/L			05/30/17 14:15	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 14:15	1
Ethylbenzene	1.5		0.50		ug/L			05/30/17 14:15	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 14:15	1
Isopropylbenzene	8.5		1.0		ug/L			05/30/17 14:15	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 14:15	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-8
Date Collected: 05/18/17 09:50
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 14:15	1
Naphthalene	26		5.0		ug/L			05/30/17 14:15	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 14:15	1
N-Propylbenzene	8.4		0.50		ug/L			05/30/17 14:15	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 14:15	1
sec-Butylbenzene	1.0		0.50		ug/L			05/30/17 14:15	1
Styrene	ND		0.50		ug/L			05/30/17 14:15	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 14:15	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 14:15	1
Toluene	4.0		0.50		ug/L			05/30/17 14:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 14:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 14:15	1
Trichloroethene	ND		0.50		ug/L			05/30/17 14:15	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 14:15	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 14:15	1
Xylenes, Total	9.3		1.5		ug/L			05/30/17 14:15	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				05/30/17 14:15	1
4-Bromofluorobenzene (Surr)	101		70 - 130				05/30/17 14:15	1
Dibromofluoromethane (Surr)	101		70 - 130				05/30/17 14:15	1
Toluene-d8 (Surr)	100		70 - 130				05/30/17 14:15	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				05/30/17 14:15	1
4-Bromofluorobenzene (Surr)	101		70 - 130				05/30/17 14:15	1
Dibromofluoromethane (Surr)	101		70 - 130				05/30/17 14:15	1
Toluene-d8 (Surr)	100		70 - 130				05/30/17 14:15	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/19/17 02:56	1
Nitrate as NO3	10		1.0		mg/L			05/19/17 02:56	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12		1.0		mg/L		05/24/17 17:49	05/25/17 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	11		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	0.92	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/22/17 22:25	05/24/17 00:51	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-4R
Date Collected: 05/18/17 10:45
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 15:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 15:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 15:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 15:12	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 15:12	1
GRO (C4-C12)	14000		2500		ug/L			05/30/17 16:36	50
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 15:12	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 15:12	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 15:12	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
1,2,4-Trimethylbenzene	320		0.50		ug/L			05/30/17 15:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 15:12	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 15:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 15:12	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 15:12	1
1,3,5-Trimethylbenzene	70		0.50		ug/L			05/30/17 15:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 15:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 15:12	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 15:12	1
2-Chlorotoluene	36		0.50		ug/L			05/30/17 15:12	1
2-Hexanone	ND		5.0		ug/L			05/30/17 15:12	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 15:12	1
4-Methyl-2-pentanone (MIBK)	15		5.0		ug/L			05/30/17 15:12	1
Acetone	15		5.0		ug/L			05/30/17 15:12	1
Benzene	1800		25		ug/L			05/30/17 16:36	50
Bromobenzene	ND		0.50		ug/L			05/30/17 15:12	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 15:12	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 15:12	1
Bromoform	ND		0.50		ug/L			05/30/17 15:12	1
Bromomethane	ND		0.50		ug/L			05/30/17 15:12	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 15:12	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 15:12	1
Chlorobenzene	ND		0.50		ug/L			05/30/17 15:12	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 15:12	1
Chloroethane	ND		0.50		ug/L			05/30/17 15:12	1
Chloroform	ND		0.50		ug/L			05/30/17 15:12	1
Chloromethane	ND		0.50		ug/L			05/30/17 15:12	1
cis-1,2-Dichloroethene	ND *		0.50		ug/L			05/30/17 15:12	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 15:12	1
Dibromomethane	ND		0.50		ug/L			05/30/17 15:12	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 15:12	1
Ethylbenzene	810		25		ug/L			05/30/17 16:36	50
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 15:12	1
Isopropylbenzene	31		1.0		ug/L			05/30/17 15:12	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 15:12	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-4R

Lab Sample ID: 720-79601-2

Date Collected: 05/18/17 10:45

Matrix: Water

Date Received: 05/18/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/30/17 15:12	1
Naphthalene	130		5.0		ug/L			05/30/17 15:12	1
n-Butylbenzene	5.0		0.50		ug/L			05/30/17 15:12	1
N-Propylbenzene	56		0.50		ug/L			05/30/17 15:12	1
4-Isopropyltoluene	0.80		0.50		ug/L			05/30/17 15:12	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 15:12	1
Styrene	ND		0.50		ug/L			05/30/17 15:12	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 15:12	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 15:12	1
Toluene	2900		25		ug/L			05/30/17 16:36	50
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 15:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 15:12	1
Trichloroethene	ND		0.50		ug/L			05/30/17 15:12	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 15:12	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 15:12	1
Xylenes, Total	3300		75		ug/L			05/30/17 16:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/30/17 16:36	50
4-Bromofluorobenzene (Surr)	101		70 - 130		05/30/17 16:36	50
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 16:36	50
Toluene-d8 (Surr)	99		70 - 130		05/30/17 16:36	50
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/30/17 15:12	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/30/17 16:36	50
4-Bromofluorobenzene (Surr)	101		70 - 130		05/30/17 15:12	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/30/17 16:36	50
Dibromofluoromethane (Surr)	94		70 - 130		05/30/17 15:12	1
Dibromofluoromethane (Surr)	101		70 - 130		05/30/17 16:36	50
Toluene-d8 (Surr)	97		70 - 130		05/30/17 15:12	1
Toluene-d8 (Surr)	99		70 - 130		05/30/17 16:36	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/19/17 03:47	1
Nitrate as NO3	47		10		mg/L			05/19/17 04:04	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.4		1.0		mg/L		05/24/17 17:49	05/25/17 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	0.50		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	3.9	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	0.69		0.20		mg/L		05/22/17 22:25	05/24/17 00:54	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-12

Date Collected: 05/18/17 11:50

Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 14:42	5
1,1,1-Trichloroethane	ND		2.5		ug/L			05/27/17 14:42	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 14:42	5
1,1,2-Trichloroethane	ND		2.5		ug/L			05/27/17 14:42	5
1,1-Dichloroethane	ND		2.5		ug/L			05/27/17 14:42	5
GRO (C4-C12)	1300		250		ug/L			05/27/17 14:42	5
1,1-Dichloroethene	ND		2.5		ug/L			05/27/17 14:42	5
1,1-Dichloropropene	ND		2.5		ug/L			05/27/17 14:42	5
1,2,3-Trichlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,2,3-Trichloropropane	ND		2.5		ug/L			05/27/17 14:42	5
1,2,4-Trichlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,2,4-Trimethylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			05/27/17 14:42	5
1,2-Dibromoethane (EDB)	ND		2.5		ug/L			05/27/17 14:42	5
1,2-Dichlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,2-Dichloroethane	ND		2.5		ug/L			05/27/17 14:42	5
1,2-Dichloropropane	ND		2.5		ug/L			05/27/17 14:42	5
1,3,5-Trimethylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,3-Dichlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
1,3-Dichloropropane	ND		2.5		ug/L			05/27/17 14:42	5
1,4-Dichlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
2,2-Dichloropropane	ND		2.5		ug/L			05/27/17 14:42	5
2-Butanone (MEK)	ND		250		ug/L			05/27/17 14:42	5
2-Chlorotoluene	ND		2.5		ug/L			05/27/17 14:42	5
2-Hexanone	ND		25		ug/L			05/27/17 14:42	5
4-Chlorotoluene	ND		2.5		ug/L			05/27/17 14:42	5
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			05/27/17 14:42	5
Acetone	ND		25		ug/L			05/27/17 14:42	5
Benzene	1100		2.5		ug/L			05/27/17 14:42	5
Bromobenzene	ND		2.5		ug/L			05/27/17 14:42	5
Chlorobromomethane	ND		2.5		ug/L			05/27/17 14:42	5
Dichlorobromomethane	ND		2.5		ug/L			05/27/17 14:42	5
Bromoform	ND		2.5		ug/L			05/27/17 14:42	5
Bromomethane	ND		2.5		ug/L			05/27/17 14:42	5
Carbon disulfide	ND		2.5		ug/L			05/27/17 14:42	5
Carbon tetrachloride	ND		2.5		ug/L			05/27/17 14:42	5
Chlorobenzene	ND		2.5		ug/L			05/27/17 14:42	5
Chlorodibromomethane	ND		2.5		ug/L			05/27/17 14:42	5
Chloroethane	ND		2.5		ug/L			05/27/17 14:42	5
Chloroform	ND		2.5		ug/L			05/27/17 14:42	5
Chloromethane	ND		2.5		ug/L			05/27/17 14:42	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 14:42	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 14:42	5
Dibromomethane	ND		2.5		ug/L			05/27/17 14:42	5
Dichlorodifluoromethane	ND		2.5		ug/L			05/27/17 14:42	5
Ethylbenzene	3.4		2.5		ug/L			05/27/17 14:42	5
Hexachlorobutadiene	ND		5.0		ug/L			05/27/17 14:42	5
Isopropylbenzene	ND		5.0		ug/L			05/27/17 14:42	5
Methyl tert-butyl ether	ND		2.5		ug/L			05/27/17 14:42	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-12
Date Collected: 05/18/17 11:50
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		25		ug/L			05/27/17 14:42	5
Naphthalene	ND		25		ug/L			05/27/17 14:42	5
n-Butylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
N-Propylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
4-Isopropyltoluene	ND		2.5		ug/L			05/27/17 14:42	5
sec-Butylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
Styrene	ND		2.5		ug/L			05/27/17 14:42	5
tert-Butylbenzene	ND		2.5		ug/L			05/27/17 14:42	5
Tetrachloroethene	ND		2.5		ug/L			05/27/17 14:42	5
Toluene	3.0		2.5		ug/L			05/27/17 14:42	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 14:42	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 14:42	5
Trichloroethene	ND		2.5		ug/L			05/27/17 14:42	5
Trichlorofluoromethane	ND		2.5		ug/L			05/27/17 14:42	5
Vinyl chloride	ND		2.5		ug/L			05/27/17 14:42	5
Xylenes, Total	ND		7.5		ug/L			05/27/17 14:42	5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				05/27/17 14:42	5
4-Bromofluorobenzene (Surr)	101		70 - 130				05/27/17 14:42	5
Dibromofluoromethane (Surr)	98		70 - 130				05/27/17 14:42	5
Toluene-d8 (Surr)	100		70 - 130				05/27/17 14:42	5
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				05/27/17 14:42	5
4-Bromofluorobenzene (Surr)	101		70 - 130				05/27/17 14:42	5
Dibromofluoromethane (Surr)	98		70 - 130				05/27/17 14:42	5
Toluene-d8 (Surr)	100		70 - 130				05/27/17 14:42	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/19/17 04:22	1
Nitrate as NO3	ND		1.0		mg/L			05/19/17 04:22	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	79		1.0		mg/L		05/24/17 17:49	05/25/17 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	76		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	3.2	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	ND		0.20		mg/L		05/22/17 17:25	05/22/17 20:18	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-11R

Lab Sample ID: 720-79601-4

Date Collected: 05/18/17 12:35

Matrix: Water

Date Received: 05/18/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 12:49	5
1,1,1-Trichloroethane	ND		2.5		ug/L			05/27/17 12:49	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			05/27/17 12:49	5
1,1,2-Trichloroethane	ND		2.5		ug/L			05/27/17 12:49	5
1,1-Dichloroethane	ND		2.5		ug/L			05/27/17 12:49	5
GRO (C4-C12)	15000		250		ug/L			05/27/17 12:49	5
1,1-Dichloroethene	ND		2.5		ug/L			05/27/17 12:49	5
1,1-Dichloropropene	ND		2.5		ug/L			05/27/17 12:49	5
1,2,3-Trichlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
1,2,3-Trichloropropane	ND		2.5		ug/L			05/27/17 12:49	5
1,2,4-Trichlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
1,2,4-Trimethylbenzene	710		2.5		ug/L			05/27/17 12:49	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			05/27/17 12:49	5
1,2-Dibromoethane (EDB)	ND		2.5		ug/L			05/27/17 12:49	5
1,2-Dichlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
1,2-Dichloroethane	ND		2.5		ug/L			05/27/17 12:49	5
1,2-Dichloropropane	ND		2.5		ug/L			05/27/17 12:49	5
1,3,5-Trimethylbenzene	180		2.5		ug/L			05/27/17 12:49	5
1,3-Dichlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
1,3-Dichloropropane	ND		2.5		ug/L			05/27/17 12:49	5
1,4-Dichlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
2,2-Dichloropropane	ND		2.5		ug/L			05/27/17 12:49	5
2-Butanone (MEK)	ND		250		ug/L			05/27/17 12:49	5
2-Chlorotoluene	ND		2.5		ug/L			05/27/17 12:49	5
2-Hexanone	ND		25		ug/L			05/27/17 12:49	5
4-Chlorotoluene	ND		2.5		ug/L			05/27/17 12:49	5
4-Methyl-2-pentanone (MIBK)	38		25		ug/L			05/27/17 12:49	5
Acetone	ND		25		ug/L			05/27/17 12:49	5
Benzene	1000		2.5		ug/L			05/27/17 12:49	5
Bromobenzene	ND		2.5		ug/L			05/27/17 12:49	5
Chlorobromomethane	ND		2.5		ug/L			05/27/17 12:49	5
Dichlorobromomethane	ND		2.5		ug/L			05/27/17 12:49	5
Bromoform	ND		2.5		ug/L			05/27/17 12:49	5
Bromomethane	ND		2.5		ug/L			05/27/17 12:49	5
Carbon disulfide	ND		2.5		ug/L			05/27/17 12:49	5
Carbon tetrachloride	ND		2.5		ug/L			05/27/17 12:49	5
Chlorobenzene	ND		2.5		ug/L			05/27/17 12:49	5
Chlorodibromomethane	ND		2.5		ug/L			05/27/17 12:49	5
Chloroethane	ND		2.5		ug/L			05/27/17 12:49	5
Chloroform	ND		2.5		ug/L			05/27/17 12:49	5
Chloromethane	ND		2.5		ug/L			05/27/17 12:49	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 12:49	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 12:49	5
Dibromomethane	ND		2.5		ug/L			05/27/17 12:49	5
Dichlorodifluoromethane	ND		2.5		ug/L			05/27/17 12:49	5
Ethylbenzene	420		2.5		ug/L			05/27/17 12:49	5
Hexachlorobutadiene	ND		5.0		ug/L			05/27/17 12:49	5
Isopropylbenzene	44		5.0		ug/L			05/27/17 12:49	5
Methyl tert-butyl ether	ND		2.5		ug/L			05/27/17 12:49	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-11R

Lab Sample ID: 720-79601-4

Date Collected: 05/18/17 12:35

Matrix: Water

Date Received: 05/18/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		25		ug/L			05/27/17 12:49	5
Naphthalene	170		25		ug/L			05/27/17 12:49	5
n-Butylbenzene	ND		2.5		ug/L			05/27/17 12:49	5
N-Propylbenzene	96		2.5		ug/L			05/27/17 12:49	5
4-Isopropyltoluene	3.3		2.5		ug/L			05/27/17 12:49	5
sec-Butylbenzene	9.4		2.5		ug/L			05/27/17 12:49	5
Styrene	ND		2.5		ug/L			05/27/17 12:49	5
tert-Butylbenzene	ND		2.5		ug/L			05/27/17 12:49	5
Tetrachloroethene	ND		2.5		ug/L			05/27/17 12:49	5
Toluene	890		2.5		ug/L			05/27/17 12:49	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			05/27/17 12:49	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			05/27/17 12:49	5
Trichloroethene	ND		2.5		ug/L			05/27/17 12:49	5
Trichlorofluoromethane	ND		2.5		ug/L			05/27/17 12:49	5
Vinyl chloride	ND		2.5		ug/L			05/27/17 12:49	5
Xylenes, Total	2100		7.5		ug/L			05/27/17 12:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/27/17 12:49	5
4-Bromofluorobenzene (Surr)	98		70 - 130		05/27/17 12:49	5
Dibromofluoromethane (Surr)	99		70 - 130		05/27/17 12:49	5
Toluene-d8 (Surr)	99		70 - 130		05/27/17 12:49	5
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/27/17 12:49	5
4-Bromofluorobenzene (Surr)	98		70 - 130		05/27/17 12:49	5
Dibromofluoromethane (Surr)	99		70 - 130		05/27/17 12:49	5
Toluene-d8 (Surr)	99		70 - 130		05/27/17 12:49	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.5		1.0		mg/L			05/19/17 04:56	1
Nitrate as NO3	7.8		1.0		mg/L			05/19/17 04:56	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.5		1.0		mg/L		05/24/17 17:49	05/25/17 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	10	HF	1.0		mg/L			05/19/17 15:08	10
Ammonia	ND		0.20		mg/L		05/22/17 17:25	05/22/17 20:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-5R

Date Collected: 05/18/17 13:45

Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/27/17 13:17	10
1,1,1-Trichloroethane	ND		5.0		ug/L			05/27/17 13:17	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			05/27/17 13:17	10
1,1,2-Trichloroethane	ND		5.0		ug/L			05/27/17 13:17	10
1,1-Dichloroethane	ND		5.0		ug/L			05/27/17 13:17	10
GRO (C4-C12)	39000		2500		ug/L			05/27/17 22:13	50
1,1-Dichloroethene	ND		5.0		ug/L			05/27/17 13:17	10
1,1-Dichloropropene	ND		5.0		ug/L			05/27/17 13:17	10
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
1,2,3-Trichloropropane	ND		5.0		ug/L			05/27/17 13:17	10
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
1,2,4-Trimethylbenzene	1500		5.0		ug/L			05/27/17 13:17	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			05/27/17 13:17	10
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			05/27/17 13:17	10
1,2-Dichlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
1,2-Dichloroethane	ND		5.0		ug/L			05/27/17 13:17	10
1,2-Dichloropropane	ND		5.0		ug/L			05/27/17 13:17	10
1,3,5-Trimethylbenzene	350		5.0		ug/L			05/27/17 13:17	10
1,3-Dichlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
1,3-Dichloropropane	ND		5.0		ug/L			05/27/17 13:17	10
1,4-Dichlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
2,2-Dichloropropane	ND		5.0		ug/L			05/27/17 13:17	10
2-Butanone (MEK)	ND		500		ug/L			05/27/17 13:17	10
2-Chlorotoluene	ND		5.0		ug/L			05/27/17 13:17	10
2-Hexanone	ND		50		ug/L			05/27/17 13:17	10
4-Chlorotoluene	ND		5.0		ug/L			05/27/17 13:17	10
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/27/17 13:17	10
Acetone	ND		50		ug/L			05/27/17 13:17	10
Benzene	85		5.0		ug/L			05/27/17 13:17	10
Bromobenzene	ND		5.0		ug/L			05/27/17 13:17	10
Chlorobromomethane	ND		5.0		ug/L			05/27/17 13:17	10
Dichlorobromomethane	ND		5.0		ug/L			05/27/17 13:17	10
Bromoform	ND		5.0		ug/L			05/27/17 13:17	10
Bromomethane	ND		5.0		ug/L			05/27/17 13:17	10
Carbon disulfide	ND		5.0		ug/L			05/27/17 13:17	10
Carbon tetrachloride	ND		5.0		ug/L			05/27/17 13:17	10
Chlorobenzene	ND		5.0		ug/L			05/27/17 13:17	10
Chlorodibromomethane	ND		5.0		ug/L			05/27/17 13:17	10
Chloroethane	ND		5.0		ug/L			05/27/17 13:17	10
Chloroform	ND		5.0		ug/L			05/27/17 13:17	10
Chloromethane	ND		5.0		ug/L			05/27/17 13:17	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/27/17 13:17	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			05/27/17 13:17	10
Dibromomethane	ND		5.0		ug/L			05/27/17 13:17	10
Dichlorodifluoromethane	ND		5.0		ug/L			05/27/17 13:17	10
Ethylbenzene	1400		5.0		ug/L			05/27/17 13:17	10
Hexachlorobutadiene	ND		10		ug/L			05/27/17 13:17	10
Isopropylbenzene	110		10		ug/L			05/27/17 13:17	10
Methyl tert-butyl ether	ND		5.0		ug/L			05/27/17 13:17	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-5R

Lab Sample ID: 720-79601-5

Date Collected: 05/18/17 13:45

Matrix: Water

Date Received: 05/18/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		50		ug/L			05/27/17 13:17	10
Naphthalene	540		50		ug/L			05/27/17 13:17	10
n-Butylbenzene	40		5.0		ug/L			05/27/17 13:17	10
N-Propylbenzene	210		5.0		ug/L			05/27/17 13:17	10
4-Isopropyltoluene	ND		5.0		ug/L			05/27/17 13:17	10
sec-Butylbenzene	15		5.0		ug/L			05/27/17 13:17	10
Styrene	ND		5.0		ug/L			05/27/17 13:17	10
tert-Butylbenzene	ND		5.0		ug/L			05/27/17 13:17	10
Tetrachloroethene	ND		5.0		ug/L			05/27/17 13:17	10
Toluene	930		5.0		ug/L			05/27/17 13:17	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			05/27/17 13:17	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			05/27/17 13:17	10
Trichloroethene	ND		5.0		ug/L			05/27/17 13:17	10
Trichlorofluoromethane	ND		5.0		ug/L			05/27/17 13:17	10
Vinyl chloride	ND		5.0		ug/L			05/27/17 13:17	10
Xylenes, Total	8300		75		ug/L			05/27/17 22:13	50

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				05/27/17 13:17	10
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				05/27/17 22:13	50
4-Bromofluorobenzene (Surr)	100		70 - 130				05/27/17 13:17	10
4-Bromofluorobenzene (Surr)	99		70 - 130				05/27/17 22:13	50
Dibromofluoromethane (Surr)	100		70 - 130				05/27/17 13:17	10
Dibromofluoromethane (Surr)	97		70 - 130				05/27/17 22:13	50
Toluene-d8 (Surr)	101		70 - 130				05/27/17 13:17	10
Toluene-d8 (Surr)	101		70 - 130				05/27/17 22:13	50
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				05/27/17 13:17	10
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				05/27/17 22:13	50
4-Bromofluorobenzene (Surr)	100		70 - 130				05/27/17 13:17	10
4-Bromofluorobenzene (Surr)	99		70 - 130				05/27/17 22:13	50
Dibromofluoromethane (Surr)	100		70 - 130				05/27/17 13:17	10
Dibromofluoromethane (Surr)	97		70 - 130				05/27/17 22:13	50
Toluene-d8 (Surr)	101		70 - 130				05/27/17 13:17	10
Toluene-d8 (Surr)	101		70 - 130				05/27/17 22:13	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/19/17 05:30	1
Nitrate as NO3	ND		1.0		mg/L			05/19/17 05:30	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.5		1.0		mg/L		05/24/17 17:49	05/25/17 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	1.9	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	1.0		0.20		mg/L		05/22/17 17:25	05/22/17 20:23	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-7R

Date Collected: 05/18/17 14:35

Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			05/27/17 13:45	50
1,1,1-Trichloroethane	ND		25		ug/L			05/27/17 13:45	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			05/27/17 13:45	50
1,1,2-Trichloroethane	ND		25		ug/L			05/27/17 13:45	50
1,1-Dichloroethane	ND		25		ug/L			05/27/17 13:45	50
GRO (C4-C12)	85000		2500		ug/L			05/27/17 13:45	50
1,1-Dichloroethene	ND		25		ug/L			05/27/17 13:45	50
1,1-Dichloropropene	ND		25		ug/L			05/27/17 13:45	50
1,2,3-Trichlorobenzene	ND		25		ug/L			05/27/17 13:45	50
1,2,3-Trichloropropane	ND		25		ug/L			05/27/17 13:45	50
1,2,4-Trichlorobenzene	ND		25		ug/L			05/27/17 13:45	50
1,2,4-Trimethylbenzene	2800		25		ug/L			05/27/17 13:45	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			05/27/17 13:45	50
1,2-Dibromoethane (EDB)	ND		25		ug/L			05/27/17 13:45	50
1,2-Dichlorobenzene	ND		25		ug/L			05/27/17 13:45	50
1,2-Dichloroethane	ND		25		ug/L			05/27/17 13:45	50
1,2-Dichloropropane	ND		25		ug/L			05/27/17 13:45	50
1,3,5-Trimethylbenzene	730		25		ug/L			05/27/17 13:45	50
1,3-Dichlorobenzene	ND		25		ug/L			05/27/17 13:45	50
1,3-Dichloropropane	ND		25		ug/L			05/27/17 13:45	50
1,4-Dichlorobenzene	ND		25		ug/L			05/27/17 13:45	50
2,2-Dichloropropane	ND		25		ug/L			05/27/17 13:45	50
2-Butanone (MEK)	ND		2500		ug/L			05/27/17 13:45	50
2-Chlorotoluene	ND		25		ug/L			05/27/17 13:45	50
2-Hexanone	ND		250		ug/L			05/27/17 13:45	50
4-Chlorotoluene	ND		25		ug/L			05/27/17 13:45	50
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			05/27/17 13:45	50
Acetone	360		250		ug/L			05/27/17 13:45	50
Benzene	510		25		ug/L			05/27/17 13:45	50
Bromobenzene	ND		25		ug/L			05/27/17 13:45	50
Chlorobromomethane	ND		25		ug/L			05/27/17 13:45	50
Dichlorobromomethane	ND		25		ug/L			05/27/17 13:45	50
Bromoform	ND		25		ug/L			05/27/17 13:45	50
Bromomethane	ND		25		ug/L			05/27/17 13:45	50
Carbon disulfide	ND		25		ug/L			05/27/17 13:45	50
Carbon tetrachloride	ND		25		ug/L			05/27/17 13:45	50
Chlorobenzene	ND		25		ug/L			05/27/17 13:45	50
Chlorodibromomethane	ND		25		ug/L			05/27/17 13:45	50
Chloroethane	ND		25		ug/L			05/27/17 13:45	50
Chloroform	ND		25		ug/L			05/27/17 13:45	50
Chloromethane	ND		25		ug/L			05/27/17 13:45	50
cis-1,2-Dichloroethene	ND		25		ug/L			05/27/17 13:45	50
cis-1,3-Dichloropropene	ND		25		ug/L			05/27/17 13:45	50
Dibromomethane	ND		25		ug/L			05/27/17 13:45	50
Dichlorodifluoromethane	ND		25		ug/L			05/27/17 13:45	50
Ethylbenzene	470		25		ug/L			05/27/17 13:45	50
Hexachlorobutadiene	ND		50		ug/L			05/27/17 13:45	50
Isopropylbenzene	120		50		ug/L			05/27/17 13:45	50
Methyl tert-butyl ether	ND		25		ug/L			05/27/17 13:45	50

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-7R

Lab Sample ID: 720-79601-6

Date Collected: 05/18/17 14:35

Matrix: Water

Date Received: 05/18/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		250		ug/L			05/27/17 13:45	50
Naphthalene	740		250		ug/L			05/27/17 13:45	50
n-Butylbenzene	ND		25		ug/L			05/27/17 13:45	50
N-Propylbenzene	240		25		ug/L			05/27/17 13:45	50
4-Isopropyltoluene	ND		25		ug/L			05/27/17 13:45	50
sec-Butylbenzene	ND		25		ug/L			05/27/17 13:45	50
Styrene	ND		25		ug/L			05/27/17 13:45	50
tert-Butylbenzene	ND		25		ug/L			05/27/17 13:45	50
Tetrachloroethene	ND		25		ug/L			05/27/17 13:45	50
Toluene	4000		25		ug/L			05/27/17 13:45	50
trans-1,2-Dichloroethene	ND		25		ug/L			05/27/17 13:45	50
trans-1,3-Dichloropropene	ND		25		ug/L			05/27/17 13:45	50
Trichloroethene	ND		25		ug/L			05/27/17 13:45	50
Trichlorofluoromethane	ND		25		ug/L			05/27/17 13:45	50
Vinyl chloride	ND		25		ug/L			05/27/17 13:45	50
Xylenes, Total	22000		75		ug/L			05/27/17 13:45	50

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					05/27/17 13:45	50
4-Bromofluorobenzene (Surr)	102		70 - 130					05/27/17 13:45	50
Dibromofluoromethane (Surr)	95		70 - 130					05/27/17 13:45	50
Toluene-d8 (Surr)	98		70 - 130					05/27/17 13:45	50
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					05/27/17 13:45	50
4-Bromofluorobenzene (Surr)	102		70 - 130					05/27/17 13:45	50
Dibromofluoromethane (Surr)	95		70 - 130					05/27/17 13:45	50
Toluene-d8 (Surr)	98		70 - 130					05/27/17 13:45	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	15		1.0		mg/L			05/19/17 06:39	1
Nitrate as NO3	56		10		mg/L			05/19/17 06:56	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.9		1.0		mg/L		05/24/17 17:49	05/25/17 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	2.8		0.10		mg/L			05/23/17 09:39	1
Ferrous Iron	0.10	HF	0.10		mg/L			05/19/17 15:08	1
Ammonia	0.84		0.20		mg/L		05/22/17 17:25	05/22/17 20:26	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-433313/9

Matrix: Water

Analysis Batch: 433313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/27/17 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/27/17 08:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 08:23	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 08:23	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 08:23	1

Lab Sample ID: LCS 490-433313/7

Matrix: Water

Analysis Batch: 433313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	944		ug/L		94	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 490-433314/9

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 08:23	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 08:23	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 08:23	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433314/9
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			05/27/17 08:23	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 08:23	1
2-Hexanone	ND		5.0		ug/L			05/27/17 08:23	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 08:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 08:23	1
Acetone	ND		5.0		ug/L			05/27/17 08:23	1
Benzene	ND		0.50		ug/L			05/27/17 08:23	1
Bromobenzene	ND		0.50		ug/L			05/27/17 08:23	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Bromoform	ND		0.50		ug/L			05/27/17 08:23	1
Bromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 08:23	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 08:23	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 08:23	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Chloroethane	ND		0.50		ug/L			05/27/17 08:23	1
Chloroform	ND		0.50		ug/L			05/27/17 08:23	1
Chloromethane	ND		0.50		ug/L			05/27/17 08:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
Dibromomethane	ND		0.50		ug/L			05/27/17 08:23	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/17 08:23	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 08:23	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 08:23	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 08:23	1
Methylene Chloride	ND		5.0		ug/L			05/27/17 08:23	1
Naphthalene	ND		5.0		ug/L			05/27/17 08:23	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 08:23	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Styrene	ND		0.50		ug/L			05/27/17 08:23	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 08:23	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 08:23	1
Toluene	ND		0.50		ug/L			05/27/17 08:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 08:23	1
Trichloroethene	ND		0.50		ug/L			05/27/17 08:23	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 08:23	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 08:23	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/27/17 08:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 08:23	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 08:23	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433314/9
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)		100		70 - 130		05/27/17 08:23	1

Lab Sample ID: LCS 490-433314/3
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	70 - 135
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	69 - 131
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	70 - 130
1,1-Dichloroethane	20.0	21.7		ug/L		109	70 - 130
1,1-Dichloroethene	20.0	23.6		ug/L		118	70 - 132
1,1-Dichloropropene	20.0	19.0		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	20.0	17.2		ug/L		86	46 - 150
1,2,3-Trichloropropane	20.0	16.4		ug/L		82	70 - 131
1,2,4-Trichlorobenzene	20.0	16.9		ug/L		84	58 - 147
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		82	45 - 138
1,2-Dibromoethane (EDB)	20.0	17.9		ug/L		90	70 - 130
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	17.9		ug/L		90	70 - 130
1,2-Dichloropropane	20.0	18.7		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	70 - 130
1,3-Dichlorobenzene	20.0	18.9		ug/L		95	70 - 130
1,3-Dichloropropane	20.0	17.8		ug/L		89	70 - 130
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	70 - 130
2,2-Dichloropropane	20.0	16.3		ug/L		81	60 - 143
2-Butanone (MEK)	100	78.8		ug/L		79	55 - 143
2-Chlorotoluene	20.0	19.4		ug/L		97	70 - 130
2-Hexanone	100	84.4		ug/L		84	54 - 142
4-Chlorotoluene	20.0	19.1		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	100	85.6		ug/L		86	60 - 137
Acetone	100	97.6		ug/L		98	39 - 150
Benzene	20.0	19.7		ug/L		98	70 - 130
Bromobenzene	20.0	19.0		ug/L		95	70 - 130
Chlorobromomethane	20.0	17.2		ug/L		86	70 - 130
Dichlorobromomethane	20.0	19.1		ug/L		95	70 - 130
Bromoform	20.0	17.9		ug/L		89	70 - 137
Bromomethane	20.0	19.4		ug/L		97	53 - 150
Carbon disulfide	20.0	22.6		ug/L		113	64 - 135
Carbon tetrachloride	20.0	19.5		ug/L		97	70 - 147
Chlorobenzene	20.0	19.3		ug/L		96	70 - 130
Chlorodibromomethane	20.0	19.4		ug/L		97	70 - 133
Chloroethane	20.0	21.1		ug/L		106	60 - 138
Chloroform	20.0	18.8		ug/L		94	70 - 130
Chloromethane	20.0	24.5		ug/L		123	33 - 150
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433314/3
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	17.7		ug/L		88	70 - 133
Dibromomethane	20.0	18.9		ug/L		94	70 - 130
Dichlorodifluoromethane	20.0	29.4		ug/L		147	48 - 150
Ethylbenzene	20.0	19.5		ug/L		97	70 - 130
Hexachlorobutadiene	20.0	17.6		ug/L		88	70 - 138
Isopropylbenzene	20.0	19.4		ug/L		97	70 - 131
Methyl tert-butyl ether	20.0	20.5		ug/L		102	70 - 130
Methylene Chloride	20.0	23.2		ug/L		116	70 - 130
Naphthalene	20.0	17.0		ug/L		85	54 - 150
n-Butylbenzene	20.0	18.1		ug/L		91	68 - 137
N-Propylbenzene	20.0	19.4		ug/L		97	70 - 134
4-Isopropyltoluene	20.0	18.3		ug/L		92	66 - 130
sec-Butylbenzene	20.0	18.7		ug/L		94	70 - 135
Styrene	20.0	18.9		ug/L		95	70 - 130
tert-Butylbenzene	20.0	18.9		ug/L		95	70 - 130
Tetrachloroethene	20.0	19.3		ug/L		97	70 - 130
Toluene	20.0	19.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	70 - 130
trans-1,3-Dichloropropene	20.0	17.0		ug/L		85	63 - 142
Trichloroethene	20.0	19.4		ug/L		97	70 - 130
Trichlorofluoromethane	20.0	21.1		ug/L		105	59 - 150
Vinyl chloride	20.0	21.9		ug/L		110	57 - 137
Xylenes, Total	40.0	38.4		ug/L		96	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 490-433314/4
Matrix: Water
Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	70 - 130	0	13
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	70 - 135	0	15
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/L		94	69 - 131	0	15
1,1,2-Trichloroethane	20.0	18.5		ug/L		92	70 - 130	2	13
1,1-Dichloroethane	20.0	22.6		ug/L		113	70 - 130	4	17
1,1-Dichloroethene	20.0	23.2		ug/L		116	70 - 132	2	20
1,1-Dichloropropene	20.0	18.8		ug/L		94	70 - 130	1	16
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		86	46 - 150	1	16
1,2,3-Trichloropropane	20.0	17.2		ug/L		86	70 - 131	5	14
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	58 - 147	3	15
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130	3	13
1,2-Dibromo-3-Chloropropane	20.0	17.0		ug/L		85	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	17.9		ug/L		89	70 - 130	0	13

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433314/4

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	70 - 130	2	12
1,2-Dichloroethane	20.0	17.6		ug/L		88	70 - 130	2	13
1,2-Dichloropropane	20.0	19.4		ug/L		97	70 - 130	4	15
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	70 - 130	2	14
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	70 - 130	1	13
1,3-Dichloropropane	20.0	17.8		ug/L		89	70 - 130	0	12
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130	2	12
2,2-Dichloropropane	20.0	18.8		ug/L		94	60 - 143	15	20
2-Butanone (MEK)	100	95.8		ug/L		96	55 - 143	19	19
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130	2	15
2-Hexanone	100	82.9		ug/L		83	54 - 142	2	17
4-Chlorotoluene	20.0	19.6		ug/L		98	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	84.4		ug/L		84	60 - 137	1	21
Acetone	100	100		ug/L		100	39 - 150	2	23
Benzene	20.0	19.7		ug/L		98	70 - 130	0	12
Bromobenzene	20.0	19.2		ug/L		96	70 - 130	1	16
Chlorobromomethane	20.0	17.5		ug/L		87	70 - 130	1	16
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130	1	14
Bromoform	20.0	18.0		ug/L		90	70 - 137	1	14
Bromomethane	20.0	19.8		ug/L		99	53 - 150	2	19
Carbon disulfide	20.0	21.9		ug/L		110	64 - 135	3	16
Carbon tetrachloride	20.0	19.6		ug/L		98	70 - 147	1	16
Chlorobenzene	20.0	19.2		ug/L		96	70 - 130	1	12
Chlorodibromomethane	20.0	19.4		ug/L		97	70 - 133	0	13
Chloroethane	20.0	21.4		ug/L		107	60 - 138	1	15
Chloroform	20.0	18.3		ug/L		91	70 - 130	3	14
Chloromethane	20.0	24.2		ug/L		121	33 - 150	1	20
cis-1,2-Dichloroethene	20.0	21.8		ug/L		109	70 - 130	14	15
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	70 - 133	0	15
Dibromomethane	20.0	18.5		ug/L		92	70 - 130	2	14
Dichlorodifluoromethane	20.0	29.4		ug/L		147	48 - 150	0	16
Ethylbenzene	20.0	19.7		ug/L		99	70 - 130	1	12
Hexachlorobutadiene	20.0	18.6		ug/L		93	70 - 138	6	16
Isopropylbenzene	20.0	19.5		ug/L		97	70 - 131	1	13
Methyl tert-butyl ether	20.0	20.3		ug/L		101	70 - 130	1	16
Methylene Chloride	20.0	23.0		ug/L		115	70 - 130	1	15
Naphthalene	20.0	17.1		ug/L		85	54 - 150	1	15
n-Butylbenzene	20.0	18.7		ug/L		93	68 - 137	3	14
N-Propylbenzene	20.0	20.0		ug/L		100	70 - 134	3	14
4-Isopropyltoluene	20.0	19.0		ug/L		95	66 - 130	4	13
sec-Butylbenzene	20.0	19.6		ug/L		98	70 - 135	4	14
Styrene	20.0	18.9		ug/L		94	70 - 130	0	12
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130	4	14
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130	0	17
Toluene	20.0	20.1		ug/L		100	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	70 - 130	0	15
trans-1,3-Dichloropropene	20.0	17.3		ug/L		86	63 - 142	2	13
Trichloroethene	20.0	19.6		ug/L		98	70 - 130	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433314/4

Matrix: Water

Analysis Batch: 433314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	20.0	21.9		ug/L		110	59 - 150	4	22
Vinyl chloride	20.0	22.0		ug/L		110	57 - 137	0	15
Xylenes, Total	40.0	38.4		ug/L		96	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 490-433331/9

Matrix: Water

Analysis Batch: 433331

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/27/17 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433331/7

Matrix: Water

Analysis Batch: 433331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	997		ug/L		100	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 490-433331/4

Matrix: Water

Analysis Batch: 433331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433332/9

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/27/17 20:48	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/17 20:48	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
1,3-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/17 20:48	1
2-Butanone (MEK)	ND		50		ug/L			05/27/17 20:48	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
2-Hexanone	ND		5.0		ug/L			05/27/17 20:48	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/17 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/27/17 20:48	1
Acetone	ND		5.0		ug/L			05/27/17 20:48	1
Benzene	ND		0.50		ug/L			05/27/17 20:48	1
Bromobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Bromoform	ND		0.50		ug/L			05/27/17 20:48	1
Bromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Carbon disulfide	ND		0.50		ug/L			05/27/17 20:48	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/17 20:48	1
Chlorobenzene	ND		0.50		ug/L			05/27/17 20:48	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Chloroethane	ND		0.50		ug/L			05/27/17 20:48	1
Chloroform	ND		0.50		ug/L			05/27/17 20:48	1
Chloromethane	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Dibromomethane	ND		0.50		ug/L			05/27/17 20:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Ethylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/17 20:48	1
Isopropylbenzene	ND		1.0		ug/L			05/27/17 20:48	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/27/17 20:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433332/9
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/27/17 20:48	1
Naphthalene	ND		5.0		ug/L			05/27/17 20:48	1
n-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
N-Propylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
4-Isopropyltoluene	ND		0.50		ug/L			05/27/17 20:48	1
sec-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Styrene	ND		0.50		ug/L			05/27/17 20:48	1
tert-Butylbenzene	ND		0.50		ug/L			05/27/17 20:48	1
Tetrachloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Toluene	ND		0.50		ug/L			05/27/17 20:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/17 20:48	1
Trichloroethene	ND		0.50		ug/L			05/27/17 20:48	1
Trichlorofluoromethane	ND		0.50		ug/L			05/27/17 20:48	1
Vinyl chloride	ND		0.50		ug/L			05/27/17 20:48	1
Xylenes, Total	ND		1.5		ug/L			05/27/17 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/27/17 20:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/27/17 20:48	1
Dibromofluoromethane (Surr)	95		70 - 130		05/27/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130		05/27/17 20:48	1

Lab Sample ID: LCS 490-433332/3
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	70 - 135
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	69 - 131
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	70 - 130
1,1-Dichloroethane	20.0	23.0		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	24.3		ug/L		122	70 - 132
1,1-Dichloropropene	20.0	24.0		ug/L		120	70 - 130
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		91	46 - 150
1,2,3-Trichloropropane	20.0	16.8		ug/L		84	70 - 131
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	58 - 147
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		87	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.8		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,2-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	18.7		ug/L		94	70 - 130
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433332/3

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 143
2-Butanone (MEK)	100	102		ug/L		102	55 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	70 - 130
2-Hexanone	100	87.4		ug/L		87	54 - 142
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	88.0		ug/L		88	60 - 137
Acetone	100	104		ug/L		104	39 - 150
Benzene	20.0	24.8		ug/L		124	70 - 130
Bromobenzene	20.0	20.1		ug/L		100	70 - 130
Chlorobromomethane	20.0	21.9		ug/L		109	70 - 130
Dichlorobromomethane	20.0	20.0		ug/L		100	70 - 130
Bromoform	20.0	18.8		ug/L		94	70 - 137
Bromomethane	20.0	20.6		ug/L		103	53 - 150
Carbon disulfide	20.0	23.6		ug/L		118	64 - 135
Carbon tetrachloride	20.0	23.2		ug/L		116	70 - 147
Chlorobenzene	20.0	19.9		ug/L		100	70 - 130
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 133
Chloroethane	20.0	23.0		ug/L		115	60 - 138
Chloroform	20.0	23.4		ug/L		117	70 - 130
Chloromethane	20.0	25.5		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	24.1		ug/L		121	70 - 130
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133
Dibromomethane	20.0	19.1		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	30.5	*	ug/L		153	48 - 150
Ethylbenzene	20.0	20.3		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138
Isopropylbenzene	20.0	20.3		ug/L		102	70 - 131
Methyl tert-butyl ether	20.0	20.5		ug/L		103	70 - 130
Methylene Chloride	20.0	23.7		ug/L		119	70 - 130
Naphthalene	20.0	17.5		ug/L		87	54 - 150
n-Butylbenzene	20.0	19.7		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.3		ug/L		102	70 - 135
Styrene	20.0	19.6		ug/L		98	70 - 130
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130
Toluene	20.0	20.9		ug/L		105	70 - 130
trans-1,2-Dichloroethene	20.0	23.1		ug/L		115	70 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142
Trichloroethene	20.0	20.4		ug/L		102	70 - 130
Trichlorofluoromethane	20.0	25.9		ug/L		129	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433332/3
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	116		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433332/4
Matrix: Water
Analysis Batch: 433332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	0	13
1,1,1-Trichloroethane	20.0	22.4		ug/L		112	70 - 135	2	15
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	69 - 131	2	15
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	70 - 130	1	13
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	17	17
1,1-Dichloroethene	20.0	23.4		ug/L		117	70 - 132	4	20
1,1-Dichloropropene	20.0	23.4		ug/L		117	70 - 130	2	16
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		92	46 - 150	1	16
1,2,3-Trichloropropane	20.0	17.7		ug/L		88	70 - 131	5	14
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/L		89	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.3		ug/L		96	70 - 130	3	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	0	12
1,2-Dichloroethane	20.0	18.7		ug/L		93	70 - 130	8	13
1,2-Dichloropropane	20.0	20.0		ug/L		100	70 - 130	3	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	70 - 130	2	14
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 130	1	13
1,3-Dichloropropane	20.0	18.8		ug/L		94	70 - 130	0	12
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	2	12
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 143	2	20
2-Butanone (MEK)	100	98.3		ug/L		98	55 - 143	4	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	2	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	2	17
4-Chlorotoluene	20.0	20.4		ug/L		102	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	90.5		ug/L		90	60 - 137	3	21
Acetone	100	103		ug/L		103	39 - 150	1	23
Benzene	20.0	20.6	*	ug/L		103	70 - 130	19	12
Bromobenzene	20.0	20.3		ug/L		102	70 - 130	1	16
Chlorobromomethane	20.0	20.8		ug/L		104	70 - 130	5	16
Dichlorobromomethane	20.0	19.8		ug/L		99	70 - 130	1	14
Bromoform	20.0	19.1		ug/L		96	70 - 137	2	14
Bromomethane	20.0	20.9		ug/L		104	53 - 150	1	19
Carbon disulfide	20.0	19.2	*	ug/L		96	64 - 135	21	16
Carbon tetrachloride	20.0	22.6		ug/L		113	70 - 147	3	16
Chlorobenzene	20.0	19.9		ug/L		99	70 - 130	0	12
Chlorodibromomethane	20.0	20.1		ug/L		100	70 - 133	1	13
Chloroethane	20.0	20.7		ug/L		104	60 - 138	11	15
Chloroform	20.0	22.2		ug/L		111	70 - 130	5	14
Chloromethane	20.0	25.9		ug/L		129	33 - 150	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433332/4

Matrix: Water

Analysis Batch: 433332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	70 - 130	4	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	0	15
Dibromomethane	20.0	19.9		ug/L		100	70 - 130	4	14
Dichlorodifluoromethane	20.0	31.1	*	ug/L		156	48 - 150	2	16
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130	1	12
Hexachlorobutadiene	20.0	19.3		ug/L		96	70 - 138	0	16
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.6		ug/L		88	70 - 130	15	16
Methylene Chloride	20.0	19.3	*	ug/L		96	70 - 130	21	15
Naphthalene	20.0	18.1		ug/L		90	54 - 150	3	15
n-Butylbenzene	20.0	19.8		ug/L		99	68 - 137	1	14
N-Propylbenzene	20.0	20.6		ug/L		103	70 - 134	0	14
4-Isopropyltoluene	20.0	19.7		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	19.9		ug/L		99	70 - 135	2	14
Styrene	20.0	19.7		ug/L		98	70 - 130	0	12
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.5		ug/L		103	70 - 130	0	17
Toluene	20.0	20.7		ug/L		103	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	18.9	*	ug/L		94	70 - 130	20	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	63 - 142	0	13
Trichloroethene	20.0	20.3		ug/L		101	70 - 130	1	14
Trichlorofluoromethane	20.0	24.9		ug/L		124	59 - 150	4	22
Vinyl chloride	20.0	23.0		ug/L		115	57 - 137	1	15
Xylenes, Total	40.0	39.9		ug/L		100	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-433516/9

Matrix: Water

Analysis Batch: 433516

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			05/30/17 13:47	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433516/7

Matrix: Water

Analysis Batch: 433516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	976		ug/L		98	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 490-433517/9

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
1,1-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/30/17 13:47	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloroethane	ND		0.50		ug/L			05/30/17 13:47	1
1,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
1,3-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
2,2-Dichloropropane	ND		0.50		ug/L			05/30/17 13:47	1
2-Butanone (MEK)	ND		50		ug/L			05/30/17 13:47	1
2-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1
2-Hexanone	ND		5.0		ug/L			05/30/17 13:47	1
4-Chlorotoluene	ND		0.50		ug/L			05/30/17 13:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/30/17 13:47	1
Acetone	ND		5.0		ug/L			05/30/17 13:47	1
Benzene	ND		0.50		ug/L			05/30/17 13:47	1
Bromobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorobromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Bromoform	ND		0.50		ug/L			05/30/17 13:47	1
Bromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Carbon disulfide	ND		0.50		ug/L			05/30/17 13:47	1
Carbon tetrachloride	ND		0.50		ug/L			05/30/17 13:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-433517/9

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50		ug/L			05/30/17 13:47	1
Chlorodibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroethane	ND		0.50		ug/L			05/30/17 13:47	1
Chloroform	ND		0.50		ug/L			05/30/17 13:47	1
Chloromethane	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Dibromomethane	ND		0.50		ug/L			05/30/17 13:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Ethylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Hexachlorobutadiene	ND		1.0		ug/L			05/30/17 13:47	1
Isopropylbenzene	ND		1.0		ug/L			05/30/17 13:47	1
Methyl tert-butyl ether	ND		0.50		ug/L			05/30/17 13:47	1
Methylene Chloride	ND		5.0		ug/L			05/30/17 13:47	1
Naphthalene	ND		5.0		ug/L			05/30/17 13:47	1
n-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
N-Propylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
4-Isopropyltoluene	ND		0.50		ug/L			05/30/17 13:47	1
sec-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Styrene	ND		0.50		ug/L			05/30/17 13:47	1
tert-Butylbenzene	ND		0.50		ug/L			05/30/17 13:47	1
Tetrachloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Toluene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/30/17 13:47	1
Trichloroethene	ND		0.50		ug/L			05/30/17 13:47	1
Trichlorofluoromethane	ND		0.50		ug/L			05/30/17 13:47	1
Vinyl chloride	ND		0.50		ug/L			05/30/17 13:47	1
Xylenes, Total	ND		1.5		ug/L			05/30/17 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		05/30/17 13:47	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/30/17 13:47	1
Dibromofluoromethane (Surr)	98		70 - 130		05/30/17 13:47	1
Toluene-d8 (Surr)	102		70 - 130		05/30/17 13:47	1

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	69 - 131
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	21.9		ug/L		110	70 - 130
1,1-Dichloroethene	20.0	23.5		ug/L		117	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	18.3		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130
1,2-Dichloroethane	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloropropane	20.0	19.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	70 - 130
1,3-Dichloropropane	20.0	19.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130
2,2-Dichloropropane	20.0	20.6		ug/L		103	60 - 143
2-Butanone (MEK)	100	97.8		ug/L		98	55 - 143
2-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130
2-Hexanone	100	98.4		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.9		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	100	99.3		ug/L		99	60 - 137
Acetone	100	125		ug/L		125	39 - 150
Benzene	20.0	20.4		ug/L		102	70 - 130
Bromobenzene	20.0	19.9		ug/L		99	70 - 130
Chlorobromomethane	20.0	19.6		ug/L		98	70 - 130
Dichlorobromomethane	20.0	20.6		ug/L		103	70 - 130
Bromoform	20.0	20.7		ug/L		104	70 - 137
Bromomethane	20.0	22.0		ug/L		110	53 - 150
Carbon disulfide	20.0	22.7		ug/L		114	64 - 135
Carbon tetrachloride	20.0	20.4		ug/L		102	70 - 147
Chlorobenzene	20.0	19.8		ug/L		99	70 - 130
Chlorodibromomethane	20.0	21.2		ug/L		106	70 - 133
Chloroethane	20.0	22.5		ug/L		112	60 - 138
Chloroform	20.0	19.7		ug/L		99	70 - 130
Chloromethane	20.0	25.7		ug/L		128	33 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	70 - 133
Dibromomethane	20.0	20.2		ug/L		101	70 - 130
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150
Ethylbenzene	20.0	20.2		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.3		ug/L		97	70 - 138
Isopropylbenzene	20.0	20.2		ug/L		101	70 - 131
Methyl tert-butyl ether	20.0	22.7		ug/L		113	70 - 130
Methylene Chloride	20.0	22.8		ug/L		114	70 - 130
Naphthalene	20.0	18.9		ug/L		95	54 - 150
n-Butylbenzene	20.0	19.6		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.2		ug/L		101	70 - 134
4-Isopropyltoluene	20.0	19.5		ug/L		98	66 - 130
sec-Butylbenzene	20.0	19.6		ug/L		98	70 - 135
Styrene	20.0	19.7		ug/L		98	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-433517/3
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130
Toluene	20.0	20.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	22.6		ug/L		113	70 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	63 - 142
Trichloroethene	20.0	19.9		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	22.2		ug/L		111	59 - 150
Vinyl chloride	20.0	22.7		ug/L		114	57 - 137
Xylenes, Total	40.0	39.7		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-433517/4
Matrix: Water
Analysis Batch: 433517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	70 - 130	2	13
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	70 - 135	7	15
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	69 - 131	2	15
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	70 - 130	4	13
1,1-Dichloroethane	20.0	22.9		ug/L		115	70 - 130	5	17
1,1-Dichloroethene	20.0	23.7		ug/L		118	70 - 132	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		101	70 - 130	1	16
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	18.1		ug/L		90	70 - 131	1	14
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	18.9		ug/L		94	70 - 130	5	13
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	1	12
1,2-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	1	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	5	15
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		98	70 - 130	1	14
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	0	13
1,3-Dichloropropane	20.0	18.9		ug/L		95	70 - 130	2	12
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	12
2,2-Dichloropropane	20.0	22.9		ug/L		115	60 - 143	11	20
2-Butanone (MEK)	100	109		ug/L		109	55 - 143	11	19
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	3	15
2-Hexanone	100	88.8		ug/L		89	54 - 142	10	17
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130	0	15
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/L		95	60 - 137	5	21
Acetone	100	107		ug/L		107	39 - 150	15	23

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-433517/4

Matrix: Water

Analysis Batch: 433517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.3		ug/L		101	70 - 130	0	12
Bromobenzene	20.0	20.1		ug/L		100	70 - 130	1	16
Chlorobromomethane	20.0	21.5		ug/L		107	70 - 130	9	16
Dichlorobromomethane	20.0	21.0		ug/L		105	70 - 130	2	14
Bromoform	20.0	19.6		ug/L		98	70 - 137	6	14
Bromomethane	20.0	21.5		ug/L		108	53 - 150	2	19
Carbon disulfide	20.0	23.4		ug/L		117	64 - 135	3	16
Carbon tetrachloride	20.0	20.5		ug/L		102	70 - 147	0	16
Chlorobenzene	20.0	19.5		ug/L		98	70 - 130	2	12
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 133	3	13
Chloroethane	20.0	20.8		ug/L		104	60 - 138	8	15
Chloroform	20.0	22.6		ug/L		113	70 - 130	14	14
Chloromethane	20.0	25.6		ug/L		128	33 - 150	0	20
cis-1,2-Dichloroethene	20.0	24.0	*	ug/L		120	70 - 130	18	15
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	70 - 133	2	15
Dibromomethane	20.0	20.5		ug/L		103	70 - 130	2	14
Dichlorodifluoromethane	20.0	28.6		ug/L		143	48 - 150	0	16
Ethylbenzene	20.0	19.8		ug/L		99	70 - 130	2	12
Hexachlorobutadiene	20.0	19.6		ug/L		98	70 - 138	1	16
Isopropylbenzene	20.0	19.9		ug/L		100	70 - 131	1	13
Methyl tert-butyl ether	20.0	21.5		ug/L		108	70 - 130	5	16
Methylene Chloride	20.0	23.7		ug/L		118	70 - 130	4	15
Naphthalene	20.0	18.4		ug/L		92	54 - 150	3	15
n-Butylbenzene	20.0	19.7		ug/L		99	68 - 137	1	14
N-Propylbenzene	20.0	20.5		ug/L		102	70 - 134	2	14
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130	1	13
sec-Butylbenzene	20.0	20.0		ug/L		100	70 - 135	2	14
Styrene	20.0	19.3		ug/L		96	70 - 130	2	12
tert-Butylbenzene	20.0	19.7		ug/L		99	70 - 130	1	14
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130	0	17
Toluene	20.0	20.1		ug/L		101	70 - 130	0	13
trans-1,2-Dichloroethene	20.0	22.9		ug/L		115	70 - 130	1	15
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	63 - 142	4	13
Trichloroethene	20.0	21.0		ug/L		105	70 - 130	5	14
Trichlorofluoromethane	20.0	22.3		ug/L		111	59 - 150	0	22
Vinyl chloride	20.0	22.5		ug/L		113	57 - 137	1	15
Xylenes, Total	40.0	39.0		ug/L		98	70 - 132	2	11

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-223262/4
Matrix: Water
Analysis Batch: 223262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			05/18/17 15:57	1
Nitrate as NO3	ND		1.0		mg/L			05/18/17 15:57	1

Lab Sample ID: LCS 720-223262/5
Matrix: Water
Analysis Batch: 223262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.9		mg/L		109	90 - 110
Nitrate as NO3	10.0	10.7		mg/L		107	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-223592/1-A
Matrix: Water
Analysis Batch: 223641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		05/24/17 17:49	05/25/17 10:50	1

Lab Sample ID: LCS 720-223592/2-A
Matrix: Water
Analysis Batch: 223641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.2		mg/L		102	85 - 115

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-223324/10
Matrix: Water
Analysis Batch: 223324

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			05/19/17 15:08	1

Lab Sample ID: LCS 720-223324/11
Matrix: Water
Analysis Batch: 223324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	1.02		mg/L		102	85 - 115

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-386338/1-A
Matrix: Water
Analysis Batch: 386368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/22/17 17:25	05/22/17 20:12	1

Lab Sample ID: LCS 500-386338/2-A
Matrix: Water
Analysis Batch: 386368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.57		mg/L		103	80 - 120

Lab Sample ID: MB 500-386365/1-A
Matrix: Water
Analysis Batch: 386549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/22/17 22:25	05/23/17 23:43	1

Lab Sample ID: LCS 500-386365/2-A
Matrix: Water
Analysis Batch: 386549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.62		mg/L		105	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

GC/MS VOA

Analysis Batch: 433313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-3	MW-12	Total/NA	Water	8260B	
720-79601-4	MW-11R	Total/NA	Water	8260B	
720-79601-5	MW-5R	Total/NA	Water	8260B	
720-79601-6	MW-7R	Total/NA	Water	8260B	
MB 490-433313/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433313/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 433314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-3	MW-12	Total/NA	Water	8260B	
720-79601-4	MW-11R	Total/NA	Water	8260B	
720-79601-5	MW-5R	Total/NA	Water	8260B	
720-79601-6	MW-7R	Total/NA	Water	8260B	
MB 490-433314/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433314/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433314/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-5	MW-5R	Total/NA	Water	8260B	
MB 490-433331/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433331/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433331/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-5	MW-5R	Total/NA	Water	8260B	
MB 490-433332/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433332/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433332/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 433516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	8260B	
720-79601-2	MW-4R	Total/NA	Water	8260B	
MB 490-433516/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433516/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 433517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	8260B	
720-79601-2	MW-4R	Total/NA	Water	8260B	
720-79601-2	MW-4R	Total/NA	Water	8260B	
MB 490-433517/9	Method Blank	Total/NA	Water	8260B	
LCS 490-433517/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-433517/4	Lab Control Sample Dup	Total/NA	Water	8260B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

HPLC/IC

Analysis Batch: 223262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	300.0	
720-79601-2	MW-4R	Total/NA	Water	300.0	
720-79601-2	MW-4R	Total/NA	Water	300.0	
720-79601-3	MW-12	Total/NA	Water	300.0	
720-79601-4	MW-11R	Total/NA	Water	300.0	
720-79601-5	MW-5R	Total/NA	Water	300.0	
720-79601-6	MW-7R	Total/NA	Water	300.0	
720-79601-6	MW-7R	Total/NA	Water	300.0	
MB 720-223262/4	Method Blank	Total/NA	Water	300.0	
LCS 720-223262/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 223592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	200.7	
720-79601-2	MW-4R	Total/NA	Water	200.7	
720-79601-3	MW-12	Total/NA	Water	200.7	
720-79601-4	MW-11R	Total/NA	Water	200.7	
720-79601-5	MW-5R	Total/NA	Water	200.7	
720-79601-6	MW-7R	Total/NA	Water	200.7	
MB 720-223592/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-223592/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 223641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	200.7 Rev 4.4	223592
720-79601-2	MW-4R	Total/NA	Water	200.7 Rev 4.4	223592
720-79601-3	MW-12	Total/NA	Water	200.7 Rev 4.4	223592
720-79601-4	MW-11R	Total/NA	Water	200.7 Rev 4.4	223592
720-79601-5	MW-5R	Total/NA	Water	200.7 Rev 4.4	223592
720-79601-6	MW-7R	Total/NA	Water	200.7 Rev 4.4	223592
MB 720-223592/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	223592
LCS 720-223592/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	223592

General Chemistry

Analysis Batch: 223324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	SM 3500 Fe B	
720-79601-2	MW-4R	Total/NA	Water	SM 3500 Fe B	
720-79601-3	MW-12	Total/NA	Water	SM 3500 Fe B	
720-79601-4	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-79601-5	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-79601-6	MW-7R	Total/NA	Water	SM 3500 Fe B	
MB 720-223324/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-223324/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

General Chemistry (Continued)

Analysis Batch: 223465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	SM 3500	
720-79601-2	MW-4R	Total/NA	Water	SM 3500	
720-79601-3	MW-12	Total/NA	Water	SM 3500	
720-79601-4	MW-11R	Total/NA	Water	SM 3500	
720-79601-5	MW-5R	Total/NA	Water	SM 3500	
720-79601-6	MW-7R	Total/NA	Water	SM 3500	

Prep Batch: 386338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-3	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-79601-4	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-79601-5	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-79601-6	MW-7R	Total/NA	Water	SM 4500 NH3 B	
MB 500-386338/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-386338/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Prep Batch: 386365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	SM 4500 NH3 B	
720-79601-2	MW-4R	Total/NA	Water	SM 4500 NH3 B	
MB 500-386365/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-386365/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 386368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-3	MW-12	Total/NA	Water	SM 4500 NH3 G	386338
720-79601-4	MW-11R	Total/NA	Water	SM 4500 NH3 G	386338
720-79601-5	MW-5R	Total/NA	Water	SM 4500 NH3 G	386338
720-79601-6	MW-7R	Total/NA	Water	SM 4500 NH3 G	386338
MB 500-386338/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	386338
LCS 500-386338/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	386338

Analysis Batch: 386549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-79601-1	MW-8	Total/NA	Water	SM 4500 NH3 G	386365
720-79601-2	MW-4R	Total/NA	Water	SM 4500 NH3 G	386365
MB 500-386365/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	386365
LCS 500-386365/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	386365

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-8
Date Collected: 05/18/17 09:50
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433516	05/30/17 14:15	JRV	TAL NSH
Total/NA	Analysis	8260B		1	433517	05/30/17 14:15	JRV	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 02:56	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:18	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386365	05/22/17 22:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386549	05/24/17 00:51	HMW	TAL CHI

Client Sample ID: MW-4R
Date Collected: 05/18/17 10:45
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	433517	05/30/17 15:12	JRV	TAL NSH
Total/NA	Analysis	8260B		50	433516	05/30/17 16:36	JRV	TAL NSH
Total/NA	Analysis	8260B		50	433517	05/30/17 16:36	JRV	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 03:47	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223262	05/19/17 04:04	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:22	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386365	05/22/17 22:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386549	05/24/17 00:54	HMW	TAL CHI

Client Sample ID: MW-12
Date Collected: 05/18/17 11:50
Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	433313	05/27/17 14:42	P1B	TAL NSH
Total/NA	Analysis	8260B		5	433314	05/27/17 14:42	P1B	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 04:22	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:26	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386338	05/22/17 17:25	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386368	05/22/17 20:18	JB	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-11R

Lab Sample ID: 720-79601-4

Date Collected: 05/18/17 12:35

Matrix: Water

Date Received: 05/18/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	433313	05/27/17 12:49	P1B	TAL NSH
Total/NA	Analysis	8260B		5	433314	05/27/17 12:49	P1B	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 04:56	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:38	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		10	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386338	05/22/17 17:25	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386368	05/22/17 20:20	JB	TAL CHI

Client Sample ID: MW-5R

Lab Sample ID: 720-79601-5

Date Collected: 05/18/17 13:45

Matrix: Water

Date Received: 05/18/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	433313	05/27/17 13:17	P1B	TAL NSH
Total/NA	Analysis	8260B		10	433314	05/27/17 13:17	P1B	TAL NSH
Total/NA	Analysis	8260B		50	433331	05/27/17 22:13	AK1	TAL NSH
Total/NA	Analysis	8260B		50	433332	05/27/17 22:13	AK1	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 05:30	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:42	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386338	05/22/17 17:25	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	386368	05/22/17 20:23	JB	TAL CHI

Client Sample ID: MW-7R

Lab Sample ID: 720-79601-6

Date Collected: 05/18/17 14:35

Matrix: Water

Date Received: 05/18/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	433313	05/27/17 13:45	P1B	TAL NSH
Total/NA	Analysis	8260B		50	433314	05/27/17 13:45	P1B	TAL NSH
Total/NA	Analysis	300.0		1	223262	05/19/17 06:39	ECB	TAL PLS
Total/NA	Analysis	300.0		10	223262	05/19/17 06:56	ECB	TAL PLS
Total/NA	Prep	200.7			223592	05/24/17 17:49	OBI	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	223641	05/25/17 11:46	BKR	TAL PLS
Total/NA	Analysis	SM 3500		1	223465	05/23/17 09:39	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	223324	05/19/17 15:08	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			386338	05/22/17 17:25	JB	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Client Sample ID: MW-7R

Date Collected: 05/18/17 14:35

Date Received: 05/18/17 18:00

Lab Sample ID: 720-79601-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	386368	05/22/17 20:26	JB	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-18
Indiana	State Program	5	C-IL-02	04-30-18
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17
Kentucky (UST)	State Program	4	66	04-30-18
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18
North Carolina (WW/SW)	State Program	4	291	12-31-17
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	04-30-17 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17 *

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	09-01-17
Arizona	State Program	9	AZ0473	05-05-17 *
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pleasanton

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Laboratory: TestAmerica Nashville (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-79601-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-79601-1	MW-8	Water	05/18/17 09:50	05/18/17 18:00
720-79601-2	MW-4R	Water	05/18/17 10:45	05/18/17 18:00
720-79601-3	MW-12	Water	05/18/17 11:50	05/18/17 18:00
720-79601-4	MW-11R	Water	05/18/17 12:35	05/18/17 18:00
720-79601-5	MW-5R	Water	05/18/17 13:45	05/18/17 18:00
720-79601-6	MW-7R	Water	05/18/17 14:35	05/18/17 18:00

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- 14



COOLER RECEIPT FORM

Cooler Received/Opened On 5/25/2017 @ 1020

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 9542 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470368 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 5.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HG

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ES

I certify that I attached a label with the unique LIMS number to each container (initial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Client Information (Sub Contract Lab) Client Contact: 1220 Quarry Lane, Pleasanton, CA 94566 Shipping/Receiving: paloma.duong@testamerica.com Company: TestAmerica Laboratories, Inc. Address: 2960 Foster Creighton Drive, Nashville, TN, 37204 Phone: 615-726-0177 (Tel) 615-726-3404 (Fax) Email:		Lab PM: Duong, Paloma R E-Mail: paloma.duong@testamerica.com State of Origin: California Accreditations Required (See note):							
Due Date Requested: 5/30/2017 TAT Requested (days): PO #: WO #: Project #: 2017 2Q TLWA Sampling SSOW#:		Job #: 720-79676-1 Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (Specify) Other:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	2960B LL5030B (MD) Choose Your Analytes	Analysis Requested	Total Number of Containers	Special Instructions/Note:
TLWA-INF (720-79676-1)	5/23/17	09:30 Pacific	Water	Water	X	X		3	
TLWA-MID (720-79676-2)	5/23/17	09:20 Pacific	Water	Water	X	X		3	
TLWA-EFF (720-79676-3)	5/23/17	09:00 Pacific	Water	Water	X	X		3	
FIELD-DUP (720-79676-4)	5/23/17	09:30 Pacific	Water	Water	X	X		3	
FIELD-BLANK (720-79676-5)	5/23/17	08:50 Pacific	Water	Water	X	X		3	
TBQC (720-79676-6)	5/23/17	Pacific	Water	Water	X	X		2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *John Mueller* Date/Time: 5-24-17 (6:00) P.M. Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Received by: *[Signature]* Date/Time: 5-25-17 10:20 Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks:



TestAmerica Pleasanton
 1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Duong, Paloma R		Carrier Tracking No(s):		COC No: 720-34084.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: paloma.duong@testamericainc.com		State of Origin: California		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 2417 Bond Street,		Due Date Requested: 5/24/2017		Accreditations Required (See note): State Program - California		Job #: 720-79601-1	
City: University Park		State, Zip: IL, 60484		TAT Requested (days):		Analysis Requested		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		Email:		PO #:					
Project Name: Chun		Site:		Project #: 72010606		SSOW#:		Other:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	
								Field Filtered Sample (Yes or No)	
								Permeable MS/MSD (Yes or No)	
								Total Number of Containers:	
								Special Instructions/Note:	
MW-8 (720-79601-1)		5/18/17		09:50 Pacific		Water		X	
MW-4R (720-79601-2)		5/18/17		10:45 Pacific		Water		X	
MW-12 (720-79601-3)		5/18/17		11:50 Pacific		Water		X	
MW-11R (720-79601-4)		5/18/17		12:35 Pacific		Water		X	
MW-5R (720-79601-5)		5/18/17		13:45 Pacific		Water		X	
MW-7R (720-79601-6)		5/18/17		14:35 Pacific		Water		X	



720-79601 COC

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 5/19/17 1515		Company: TA		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.3	Page 51 of 54	5/30/2017
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1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79601-1

Login Number: 79601

List Number: 1

Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79601-1

Login Number: 79601
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 05/20/17 12:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-79601-1

Login Number: 79601
List Number: 3
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 05/25/17 02:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-80751-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
7/27/2017 5:05:30 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Job ID: 720-80751-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-80751-1**

Comments

No additional comments.

Receipt

The samples were received on 7/19/2017 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: EFF

Lab Sample ID: 720-80751-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-80751-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-80751-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.69		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	16		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	6.6		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	7.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	3.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	4.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	48		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	160		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: EFF

Date Collected: 07/19/17 11:35

Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-1

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/27/17 02:01	1
Acetone	ND		50		ug/L			07/27/17 02:01	1
Benzene	ND		0.50		ug/L			07/27/17 02:01	1
Dichlorobromomethane	ND		0.50		ug/L			07/27/17 02:01	1
Bromobenzene	ND		1.0		ug/L			07/27/17 02:01	1
Chlorobromomethane	ND		1.0		ug/L			07/27/17 02:01	1
Bromoform	ND		1.0		ug/L			07/27/17 02:01	1
Bromomethane	ND		1.0		ug/L			07/27/17 02:01	1
2-Butanone (MEK)	ND		50		ug/L			07/27/17 02:01	1
n-Butylbenzene	ND		1.0		ug/L			07/27/17 02:01	1
sec-Butylbenzene	ND		1.0		ug/L			07/27/17 02:01	1
tert-Butylbenzene	ND		1.0		ug/L			07/27/17 02:01	1
Carbon disulfide	ND		5.0		ug/L			07/27/17 02:01	1
Carbon tetrachloride	ND		0.50		ug/L			07/27/17 02:01	1
Chlorobenzene	ND		0.50		ug/L			07/27/17 02:01	1
Chloroethane	ND		1.0		ug/L			07/27/17 02:01	1
Chloroform	ND		1.0		ug/L			07/27/17 02:01	1
Chloromethane	ND		1.0		ug/L			07/27/17 02:01	1
2-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:01	1
4-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:01	1
Chlorodibromomethane	ND		0.50		ug/L			07/27/17 02:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:01	1
1,3-Dichloropropane	ND		1.0		ug/L			07/27/17 02:01	1
1,1-Dichloropropane	ND		0.50		ug/L			07/27/17 02:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/27/17 02:01	1
Ethylene Dibromide	ND		0.50		ug/L			07/27/17 02:01	1
Dibromomethane	ND		0.50		ug/L			07/27/17 02:01	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/27/17 02:01	1
1,1-Dichloroethane	ND		0.50		ug/L			07/27/17 02:01	1
1,2-Dichloroethane	ND		0.50		ug/L			07/27/17 02:01	1
1,1-Dichloroethene	ND		0.50		ug/L			07/27/17 02:01	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:01	1
1,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:01	1
Ethylbenzene	ND		0.50		ug/L			07/27/17 02:01	1
Hexachlorobutadiene	ND		1.0		ug/L			07/27/17 02:01	1
2-Hexanone	ND		50		ug/L			07/27/17 02:01	1
Isopropylbenzene	ND		0.50		ug/L			07/27/17 02:01	1
4-Isopropyltoluene	ND		1.0		ug/L			07/27/17 02:01	1
Methylene Chloride	ND		5.0		ug/L			07/27/17 02:01	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/27/17 02:01	1
Naphthalene	ND		1.0		ug/L			07/27/17 02:01	1
N-Propylbenzene	ND		1.0		ug/L			07/27/17 02:01	1
Styrene	ND		0.50		ug/L			07/27/17 02:01	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:01	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: EFF
Date Collected: 07/19/17 11:35
Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:01	1
Tetrachloroethene	ND		0.50		ug/L			07/27/17 02:01	1
Toluene	ND		0.50		ug/L			07/27/17 02:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/27/17 02:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/27/17 02:01	1
Trichloroethene	ND		0.50		ug/L			07/27/17 02:01	1
Trichlorofluoromethane	ND		1.0		ug/L			07/27/17 02:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/27/17 02:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/27/17 02:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/27/17 02:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/27/17 02:01	1
Vinyl acetate	ND		10		ug/L			07/27/17 02:01	1
Vinyl chloride	ND		0.50		ug/L			07/27/17 02:01	1
Xylenes, Total	ND		1.0		ug/L			07/27/17 02:01	1
2,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/27/17 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		07/27/17 02:01	1
1,2-Dichloroethane-d4 (Surr)	83		72 - 130		07/27/17 02:01	1
Toluene-d8 (Surr)	96		70 - 130		07/27/17 02:01	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: GAC

Date Collected: 07/19/17 11:40

Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-2

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/27/17 02:30	1
Acetone	ND		50		ug/L			07/27/17 02:30	1
Benzene	ND		0.50		ug/L			07/27/17 02:30	1
Dichlorobromomethane	ND		0.50		ug/L			07/27/17 02:30	1
Bromobenzene	ND		1.0		ug/L			07/27/17 02:30	1
Chlorobromomethane	ND		1.0		ug/L			07/27/17 02:30	1
Bromoform	ND		1.0		ug/L			07/27/17 02:30	1
Bromomethane	ND		1.0		ug/L			07/27/17 02:30	1
2-Butanone (MEK)	ND		50		ug/L			07/27/17 02:30	1
n-Butylbenzene	ND		1.0		ug/L			07/27/17 02:30	1
sec-Butylbenzene	ND		1.0		ug/L			07/27/17 02:30	1
tert-Butylbenzene	ND		1.0		ug/L			07/27/17 02:30	1
Carbon disulfide	ND		5.0		ug/L			07/27/17 02:30	1
Carbon tetrachloride	ND		0.50		ug/L			07/27/17 02:30	1
Chlorobenzene	ND		0.50		ug/L			07/27/17 02:30	1
Chloroethane	ND		1.0		ug/L			07/27/17 02:30	1
Chloroform	ND		1.0		ug/L			07/27/17 02:30	1
Chloromethane	ND		1.0		ug/L			07/27/17 02:30	1
2-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:30	1
4-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:30	1
Chlorodibromomethane	ND		0.50		ug/L			07/27/17 02:30	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:30	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:30	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:30	1
1,3-Dichloropropane	ND		1.0		ug/L			07/27/17 02:30	1
1,1-Dichloropropane	ND		0.50		ug/L			07/27/17 02:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/27/17 02:30	1
Ethylene Dibromide	ND		0.50		ug/L			07/27/17 02:30	1
Dibromomethane	ND		0.50		ug/L			07/27/17 02:30	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/27/17 02:30	1
1,1-Dichloroethane	ND		0.50		ug/L			07/27/17 02:30	1
1,2-Dichloroethane	ND		0.50		ug/L			07/27/17 02:30	1
1,1-Dichloroethene	ND		0.50		ug/L			07/27/17 02:30	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:30	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:30	1
1,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:30	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:30	1
Ethylbenzene	ND		0.50		ug/L			07/27/17 02:30	1
Hexachlorobutadiene	ND		1.0		ug/L			07/27/17 02:30	1
2-Hexanone	ND		50		ug/L			07/27/17 02:30	1
Isopropylbenzene	ND		0.50		ug/L			07/27/17 02:30	1
4-Isopropyltoluene	ND		1.0		ug/L			07/27/17 02:30	1
Methylene Chloride	ND		5.0		ug/L			07/27/17 02:30	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/27/17 02:30	1
Naphthalene	ND		1.0		ug/L			07/27/17 02:30	1
N-Propylbenzene	ND		1.0		ug/L			07/27/17 02:30	1
Styrene	ND		0.50		ug/L			07/27/17 02:30	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:30	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: GAC

Lab Sample ID: 720-80751-2

Date Collected: 07/19/17 11:40

Matrix: Water

Date Received: 07/19/17 14:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:30	1
Tetrachloroethene	ND		0.50		ug/L			07/27/17 02:30	1
Toluene	ND		0.50		ug/L			07/27/17 02:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:30	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/27/17 02:30	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/27/17 02:30	1
Trichloroethene	ND		0.50		ug/L			07/27/17 02:30	1
Trichlorofluoromethane	ND		1.0		ug/L			07/27/17 02:30	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/27/17 02:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/27/17 02:30	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/27/17 02:30	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/27/17 02:30	1
Vinyl acetate	ND		10		ug/L			07/27/17 02:30	1
Vinyl chloride	ND		0.50		ug/L			07/27/17 02:30	1
Xylenes, Total	ND		1.0		ug/L			07/27/17 02:30	1
2,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/27/17 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		67 - 130		07/27/17 02:30	1
1,2-Dichloroethane-d4 (Surr)	85		72 - 130		07/27/17 02:30	1
Toluene-d8 (Surr)	95		70 - 130		07/27/17 02:30	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: INF

Date Collected: 07/19/17 11:45

Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.69		0.50		ug/L			07/27/17 02:58	1
Acetone	ND		50		ug/L			07/27/17 02:58	1
Benzene	16		0.50		ug/L			07/27/17 02:58	1
Dichlorobromomethane	ND		0.50		ug/L			07/27/17 02:58	1
Bromobenzene	ND		1.0		ug/L			07/27/17 02:58	1
Chlorobromomethane	ND		1.0		ug/L			07/27/17 02:58	1
Bromoform	ND		1.0		ug/L			07/27/17 02:58	1
Bromomethane	ND		1.0		ug/L			07/27/17 02:58	1
2-Butanone (MEK)	ND		50		ug/L			07/27/17 02:58	1
n-Butylbenzene	ND		1.0		ug/L			07/27/17 02:58	1
sec-Butylbenzene	ND		1.0		ug/L			07/27/17 02:58	1
tert-Butylbenzene	ND		1.0		ug/L			07/27/17 02:58	1
Carbon disulfide	ND		5.0		ug/L			07/27/17 02:58	1
Carbon tetrachloride	ND		0.50		ug/L			07/27/17 02:58	1
Chlorobenzene	ND		0.50		ug/L			07/27/17 02:58	1
Chloroethane	ND		1.0		ug/L			07/27/17 02:58	1
Chloroform	ND		1.0		ug/L			07/27/17 02:58	1
Chloromethane	ND		1.0		ug/L			07/27/17 02:58	1
2-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:58	1
4-Chlorotoluene	ND		0.50		ug/L			07/27/17 02:58	1
Chlorodibromomethane	ND		0.50		ug/L			07/27/17 02:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/27/17 02:58	1
1,3-Dichloropropane	ND		1.0		ug/L			07/27/17 02:58	1
1,1-Dichloropropane	ND		0.50		ug/L			07/27/17 02:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/27/17 02:58	1
Ethylene Dibromide	ND		0.50		ug/L			07/27/17 02:58	1
Dibromomethane	ND		0.50		ug/L			07/27/17 02:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/27/17 02:58	1
1,1-Dichloroethane	ND		0.50		ug/L			07/27/17 02:58	1
1,2-Dichloroethane	ND		0.50		ug/L			07/27/17 02:58	1
1,1-Dichloroethene	ND		0.50		ug/L			07/27/17 02:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/27/17 02:58	1
1,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/27/17 02:58	1
Ethylbenzene	ND		0.50		ug/L			07/27/17 02:58	1
Hexachlorobutadiene	ND		1.0		ug/L			07/27/17 02:58	1
2-Hexanone	ND		50		ug/L			07/27/17 02:58	1
Isopropylbenzene	ND		0.50		ug/L			07/27/17 02:58	1
4-Isopropyltoluene	ND		1.0		ug/L			07/27/17 02:58	1
Methylene Chloride	ND		5.0		ug/L			07/27/17 02:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/27/17 02:58	1
Naphthalene	6.6		1.0		ug/L			07/27/17 02:58	1
N-Propylbenzene	ND		1.0		ug/L			07/27/17 02:58	1
Styrene	ND		0.50		ug/L			07/27/17 02:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:58	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: INF

Lab Sample ID: 720-80751-3

Date Collected: 07/19/17 11:45

Matrix: Water

Date Received: 07/19/17 14:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/27/17 02:58	1
Tetrachloroethene	ND		0.50		ug/L			07/27/17 02:58	1
Toluene	7.4		0.50		ug/L			07/27/17 02:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/27/17 02:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/27/17 02:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/27/17 02:58	1
Trichloroethene	ND		0.50		ug/L			07/27/17 02:58	1
Trichlorofluoromethane	ND		1.0		ug/L			07/27/17 02:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/27/17 02:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/27/17 02:58	1
1,2,4-Trimethylbenzene	3.7		0.50		ug/L			07/27/17 02:58	1
1,3,5-Trimethylbenzene	4.5		0.50		ug/L			07/27/17 02:58	1
Vinyl acetate	ND		10		ug/L			07/27/17 02:58	1
Vinyl chloride	ND		0.50		ug/L			07/27/17 02:58	1
Xylenes, Total	48		1.0		ug/L			07/27/17 02:58	1
2,2-Dichloropropane	ND		0.50		ug/L			07/27/17 02:58	1
Gasoline Range Organics (GRO)	160		50		ug/L			07/27/17 02:58	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		07/27/17 02:58	1
1,2-Dichloroethane-d4 (Surr)	86		72 - 130		07/27/17 02:58	1
Toluene-d8 (Surr)	96		70 - 130		07/27/17 02:58	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-227272/22

Matrix: Water

Analysis Batch: 227272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/26/17 18:27	1
Acetone	ND		50		ug/L			07/26/17 18:27	1
Benzene	ND		0.50		ug/L			07/26/17 18:27	1
Dichlorobromomethane	ND		0.50		ug/L			07/26/17 18:27	1
Bromobenzene	ND		1.0		ug/L			07/26/17 18:27	1
Chlorobromomethane	ND		1.0		ug/L			07/26/17 18:27	1
Bromoform	ND		1.0		ug/L			07/26/17 18:27	1
Bromomethane	ND		1.0		ug/L			07/26/17 18:27	1
2-Butanone (MEK)	ND		50		ug/L			07/26/17 18:27	1
n-Butylbenzene	ND		1.0		ug/L			07/26/17 18:27	1
sec-Butylbenzene	ND		1.0		ug/L			07/26/17 18:27	1
tert-Butylbenzene	ND		1.0		ug/L			07/26/17 18:27	1
Carbon disulfide	ND		5.0		ug/L			07/26/17 18:27	1
Carbon tetrachloride	ND		0.50		ug/L			07/26/17 18:27	1
Chlorobenzene	ND		0.50		ug/L			07/26/17 18:27	1
Chloroethane	ND		1.0		ug/L			07/26/17 18:27	1
Chloroform	ND		1.0		ug/L			07/26/17 18:27	1
Chloromethane	ND		1.0		ug/L			07/26/17 18:27	1
2-Chlorotoluene	ND		0.50		ug/L			07/26/17 18:27	1
4-Chlorotoluene	ND		0.50		ug/L			07/26/17 18:27	1
Chlorodibromomethane	ND		0.50		ug/L			07/26/17 18:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/26/17 18:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/26/17 18:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/26/17 18:27	1
1,3-Dichloropropane	ND		1.0		ug/L			07/26/17 18:27	1
1,1-Dichloropropene	ND		0.50		ug/L			07/26/17 18:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/26/17 18:27	1
Ethylene Dibromide	ND		0.50		ug/L			07/26/17 18:27	1
Dibromomethane	ND		0.50		ug/L			07/26/17 18:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/26/17 18:27	1
1,1-Dichloroethane	ND		0.50		ug/L			07/26/17 18:27	1
1,2-Dichloroethane	ND		0.50		ug/L			07/26/17 18:27	1
1,1-Dichloroethene	ND		0.50		ug/L			07/26/17 18:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/26/17 18:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/26/17 18:27	1
1,2-Dichloropropane	ND		0.50		ug/L			07/26/17 18:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/26/17 18:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/26/17 18:27	1
Ethylbenzene	ND		0.50		ug/L			07/26/17 18:27	1
Hexachlorobutadiene	ND		1.0		ug/L			07/26/17 18:27	1
2-Hexanone	ND		50		ug/L			07/26/17 18:27	1
Isopropylbenzene	ND		0.50		ug/L			07/26/17 18:27	1
4-Isopropyltoluene	ND		1.0		ug/L			07/26/17 18:27	1
Methylene Chloride	ND		5.0		ug/L			07/26/17 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/26/17 18:27	1
Naphthalene	ND		1.0		ug/L			07/26/17 18:27	1
N-Propylbenzene	ND		1.0		ug/L			07/26/17 18:27	1
Styrene	ND		0.50		ug/L			07/26/17 18:27	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-227272/22
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/26/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/26/17 18:27	1
Tetrachloroethene	ND		0.50		ug/L			07/26/17 18:27	1
Toluene	ND		0.50		ug/L			07/26/17 18:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/26/17 18:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/26/17 18:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/26/17 18:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/26/17 18:27	1
Trichloroethene	ND		0.50		ug/L			07/26/17 18:27	1
Trichlorofluoromethane	ND		1.0		ug/L			07/26/17 18:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/26/17 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/26/17 18:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/26/17 18:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/26/17 18:27	1
Vinyl acetate	ND		10		ug/L			07/26/17 18:27	1
Vinyl chloride	ND		0.50		ug/L			07/26/17 18:27	1
Xylenes, Total	ND		1.0		ug/L			07/26/17 18:27	1
2,2-Dichloropropane	ND		0.50		ug/L			07/26/17 18:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/26/17 18:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		07/26/17 18:27	1
1,2-Dichloroethane-d4 (Surr)	84		72 - 130		07/26/17 18:27	1
Toluene-d8 (Surr)	97		70 - 130		07/26/17 18:27	1

Lab Sample ID: LCS 720-227272/32
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	442		ug/L		88	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-227272/34
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.1		ug/L		100	62 - 130
Acetone	125	117		ug/L		94	26 - 180
Benzene	25.0	29.0		ug/L		116	79 - 130
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-227272/34

Matrix: Water

Analysis Batch: 227272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	25.0	27.8		ug/L		111	70 - 130
Chlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Bromoform	25.0	23.1		ug/L		93	68 - 136
Bromomethane	25.0	23.7		ug/L		95	43 - 151
2-Butanone (MEK)	125	115		ug/L		92	54 - 153
n-Butylbenzene	25.0	30.2		ug/L		121	70 - 142
sec-Butylbenzene	25.0	29.5		ug/L		118	70 - 134
tert-Butylbenzene	25.0	28.4		ug/L		113	70 - 135
Carbon disulfide	25.0	27.0		ug/L		108	68 - 146
Carbon tetrachloride	25.0	23.4		ug/L		94	70 - 146
Chlorobenzene	25.0	28.5		ug/L		114	70 - 130
Chloroethane	25.0	27.6		ug/L		110	62 - 138
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	26.0		ug/L		104	52 - 175
2-Chlorotoluene	25.0	28.2		ug/L		113	70 - 130
4-Chlorotoluene	25.0	28.4		ug/L		113	70 - 130
Chlorodibromomethane	25.0	23.4		ug/L		94	70 - 145
1,2-Dichlorobenzene	25.0	28.2		ug/L		113	70 - 130
1,3-Dichlorobenzene	25.0	27.8		ug/L		111	70 - 130
1,4-Dichlorobenzene	25.0	27.8		ug/L		111	70 - 130
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropane	25.0	27.8		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 136
Ethylene Dibromide	25.0	24.6		ug/L		99	70 - 130
Dibromomethane	25.0	24.6		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	19.9		ug/L		80	32 - 158
1,1-Dichloroethane	25.0	27.3		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	22.7		ug/L		91	61 - 132
1,1-Dichloroethene	25.0	25.0		ug/L		100	64 - 128
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	68 - 130
1,2-Dichloropropane	25.0	29.9		ug/L		120	70 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 140
Ethylbenzene	25.0	28.8		ug/L		115	80 - 120
Hexachlorobutadiene	25.0	27.2		ug/L		109	70 - 130
2-Hexanone	125	111		ug/L		89	60 - 164
Isopropylbenzene	25.0	29.1		ug/L		116	70 - 130
4-Isopropyltoluene	25.0	29.1		ug/L		116	70 - 130
Methylene Chloride	25.0	27.9		ug/L		112	70 - 147
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	50 - 155
Naphthalene	25.0	27.5		ug/L		110	50 - 130
N-Propylbenzene	25.0	30.0		ug/L		120	70 - 130
Styrene	25.0	29.2		ug/L		117	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.9		ug/L		112	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Toluene	25.0	29.4		ug/L		118	78 - 120

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-227272/34
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	70 - 130
1,1,1-Trichloroethane	25.0	23.4		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	28.7		ug/L		115	70 - 130
Trichloroethene	25.0	26.1		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	22.7		ug/L		91	66 - 132
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.5		ug/L		102	42 - 162
1,2,4-Trimethylbenzene	25.0	28.6		ug/L		114	70 - 132
1,3,5-Trimethylbenzene	25.0	28.9		ug/L		116	70 - 130
Vinyl acetate	25.0	24.4		ug/L		97	43 - 163
Vinyl chloride	25.0	25.2		ug/L		101	54 - 135
m-Xylene & p-Xylene	25.0	28.2		ug/L		113	70 - 142
o-Xylene	25.0	28.4		ug/L		113	70 - 130
2,2-Dichloropropane	25.0	23.9		ug/L		95	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-227272/33
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	450		ug/L		90	71 - 125	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-227272/35
Matrix: Water
Analysis Batch: 227272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.5		ug/L		102	62 - 130	2	20
Acetone	125	122		ug/L		98	26 - 180	4	30
Benzene	25.0	28.3		ug/L		113	79 - 130	2	20
Dichlorobromomethane	25.0	25.9		ug/L		103	70 - 130	1	20
Bromobenzene	25.0	28.0		ug/L		112	70 - 130	1	20
Chlorobromomethane	25.0	26.7		ug/L		107	70 - 130	1	20
Bromoform	25.0	24.0		ug/L		96	68 - 136	4	20
Bromomethane	25.0	23.8		ug/L		95	43 - 151	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-227272/35

Matrix: Water

Analysis Batch: 227272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	125	123		ug/L		98	54 - 153	7	20
n-Butylbenzene	25.0	29.7		ug/L		119	70 - 142	2	20
sec-Butylbenzene	25.0	29.5		ug/L		118	70 - 134	0	20
tert-Butylbenzene	25.0	28.4		ug/L		114	70 - 135	0	20
Carbon disulfide	25.0	26.3		ug/L		105	68 - 146	3	20
Carbon tetrachloride	25.0	23.0		ug/L		92	70 - 146	2	20
Chlorobenzene	25.0	28.2		ug/L		113	70 - 130	1	20
Chloroethane	25.0	26.5		ug/L		106	62 - 138	4	20
Chloroform	25.0	24.7		ug/L		99	70 - 130	2	20
Chloromethane	25.0	25.2		ug/L		101	52 - 175	3	20
2-Chlorotoluene	25.0	28.3		ug/L		113	70 - 130	0	20
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130	1	20
Chlorodibromomethane	25.0	23.3		ug/L		93	70 - 145	1	20
1,2-Dichlorobenzene	25.0	28.1		ug/L		113	70 - 130	0	20
1,3-Dichlorobenzene	25.0	27.7		ug/L		111	70 - 130	0	20
1,4-Dichlorobenzene	25.0	27.9		ug/L		111	70 - 130	0	20
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	0	20
1,1-Dichloropropane	25.0	27.4		ug/L		110	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 136	7	20
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130	0	20
Dibromomethane	25.0	24.3		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	19.1		ug/L		76	32 - 158	4	20
1,1-Dichloroethane	25.0	26.8		ug/L		107	70 - 130	2	20
1,2-Dichloroethane	25.0	22.3		ug/L		89	61 - 132	2	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	68 - 130	1	20
1,2-Dichloropropane	25.0	29.0		ug/L		116	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 140	1	20
Ethylbenzene	25.0	28.4		ug/L		113	80 - 120	2	20
Hexachlorobutadiene	25.0	27.0		ug/L		108	70 - 130	1	20
2-Hexanone	125	119		ug/L		96	60 - 164	7	20
Isopropylbenzene	25.0	28.5		ug/L		114	70 - 130	2	20
4-Isopropyltoluene	25.0	28.8		ug/L		115	70 - 130	1	20
Methylene Chloride	25.0	27.0		ug/L		108	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	50 - 155	6	20
Naphthalene	25.0	29.1		ug/L		117	50 - 130	6	20
N-Propylbenzene	25.0	30.0		ug/L		120	70 - 130	0	20
Styrene	25.0	28.8		ug/L		115	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	29.2		ug/L		117	70 - 130	5	20
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130	2	20
Toluene	25.0	29.0		ug/L		116	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	28.5		ug/L		114	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	28.5		ug/L		114	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	2	20
1,1,2-Trichloroethane	25.0	28.4		ug/L		114	70 - 130	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-227272/35

Matrix: Water

Analysis Batch: 227272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	25.0	25.6		ug/L		103	70 - 130	2	20
Trichlorofluoromethane	25.0	22.2		ug/L		89	66 - 132	2	20
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.9		ug/L		100	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	28.2		ug/L		113	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	29.1		ug/L		116	70 - 130	1	20
Vinyl acetate	25.0	25.1		ug/L		101	43 - 163	3	20
Vinyl chloride	25.0	24.8		ug/L		99	54 - 135	2	20
m-Xylene & p-Xylene	25.0	27.5		ug/L		110	70 - 142	3	20
o-Xylene	25.0	27.7		ug/L		111	70 - 130	2	20
2,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 140	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-80751-2 MS

Matrix: Water

Analysis Batch: 227272

Client Sample ID: GAC

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		103	60 - 138
Acetone	ND		125	137		ug/L		110	60 - 140
Benzene	ND		25.0	28.1		ug/L		112	60 - 140
Dichlorobromomethane	ND		25.0	25.5		ug/L		102	60 - 140
Bromobenzene	ND		25.0	27.9		ug/L		112	60 - 140
Chlorobromomethane	ND		25.0	27.2		ug/L		109	60 - 140
Bromoform	ND		25.0	24.0		ug/L		96	56 - 140
Bromomethane	ND		25.0	23.7		ug/L		95	23 - 140
2-Butanone (MEK)	ND		125	138		ug/L		110	60 - 140
n-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
sec-Butylbenzene	ND		25.0	28.3		ug/L		113	60 - 140
tert-Butylbenzene	ND		25.0	27.8		ug/L		111	60 - 140
Carbon disulfide	ND		25.0	27.1		ug/L		109	38 - 140
Carbon tetrachloride	ND		25.0	22.6		ug/L		90	60 - 140
Chlorobenzene	ND		25.0	27.6		ug/L		110	60 - 140
Chloroethane	ND		25.0	27.3		ug/L		109	51 - 140
Chloroform	ND		25.0	24.8		ug/L		99	60 - 140
Chloromethane	ND		25.0	26.4		ug/L		106	52 - 140
2-Chlorotoluene	ND		25.0	27.3		ug/L		109	60 - 140
4-Chlorotoluene	ND		25.0	26.9		ug/L		108	60 - 140
Chlorodibromomethane	ND		25.0	23.9		ug/L		95	60 - 140
1,2-Dichlorobenzene	ND		25.0	27.7		ug/L		111	60 - 140
1,3-Dichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140
1,4-Dichlorobenzene	ND		25.0	27.0		ug/L		108	60 - 140
1,3-Dichloropropane	ND		25.0	26.4		ug/L		106	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-80751-2 MS

Matrix: Water

Analysis Batch: 227272

Client Sample ID: GAC

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	23.1		ug/L		92	60 - 140
Ethylene Dibromide	ND		25.0	25.0		ug/L		100	60 - 140
Dibromomethane	ND		25.0	25.2		ug/L		101	60 - 140
Dichlorodifluoromethane	ND		25.0	20.8		ug/L		83	38 - 140
1,1-Dichloroethane	ND		25.0	26.8		ug/L		107	60 - 140
1,2-Dichloroethane	ND		25.0	22.9		ug/L		91	60 - 140
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
cis-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	60 - 140
trans-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	60 - 140
1,2-Dichloropropane	ND		25.0	29.1		ug/L		116	60 - 140
cis-1,3-Dichloropropene	ND		25.0	25.0		ug/L		100	60 - 140
trans-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	60 - 140
Ethylbenzene	ND		25.0	27.4		ug/L		110	60 - 140
Hexachlorobutadiene	ND		25.0	23.7		ug/L		95	60 - 140
2-Hexanone	ND		125	133		ug/L		106	60 - 140
Isopropylbenzene	ND		25.0	27.5		ug/L		110	60 - 140
4-Isopropyltoluene	ND		25.0	26.8		ug/L		107	60 - 140
Methylene Chloride	ND		25.0	26.7		ug/L		107	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	136		ug/L		109	58 - 130
Naphthalene	ND		25.0	28.3		ug/L		113	56 - 140
N-Propylbenzene	ND		25.0	28.3		ug/L		113	60 - 140
Styrene	ND		25.0	27.9		ug/L		112	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	60 - 140
1,1,1,2,2-Tetrachloroethane	ND		25.0	29.3		ug/L		117	60 - 140
Tetrachloroethene	ND		25.0	24.3		ug/L		97	60 - 140
Toluene	ND		25.0	28.2		ug/L		113	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.8		ug/L		91	60 - 140
1,1,1,2-Trichloroethane	ND		25.0	28.1		ug/L		113	60 - 140
Trichloroethene	ND		25.0	25.2		ug/L		101	60 - 140
Trichlorofluoromethane	ND		25.0	22.9		ug/L		92	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.3		ug/L		101	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.9		ug/L		100	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	27.6		ug/L		111	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	27.7		ug/L		111	60 - 140
Vinyl acetate	ND		25.0	24.4		ug/L		98	40 - 140
Vinyl chloride	ND		25.0	24.6		ug/L		99	58 - 140
m-Xylene & p-Xylene	ND		25.0	26.4		ug/L		106	60 - 140
o-Xylene	ND		25.0	27.1		ug/L		108	60 - 140
2,2-Dichloropropane	ND		25.0	21.3		ug/L		85	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		72 - 130
Toluene-d8 (Surr)	99		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Lab Sample ID: 720-80751-2 MSD
Matrix: Water
Analysis Batch: 227272

Client Sample ID: GAC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	26.1		ug/L		105	60 - 138	2	20
Acetone	ND		125	145		ug/L		116	60 - 140	5	20
Benzene	ND		25.0	27.4		ug/L		110	60 - 140	2	20
Dichlorobromomethane	ND		25.0	25.3		ug/L		101	60 - 140	1	20
Bromobenzene	ND		25.0	27.7		ug/L		111	60 - 140	1	20
Chlorobromomethane	ND		25.0	27.1		ug/L		109	60 - 140	0	20
Bromoform	ND		25.0	24.5		ug/L		98	56 - 140	2	20
Bromomethane	ND		25.0	23.5		ug/L		94	23 - 140	1	20
2-Butanone (MEK)	ND		125	144		ug/L		115	60 - 140	4	20
n-Butylbenzene	ND		25.0	25.5		ug/L		102	60 - 140	3	20
sec-Butylbenzene	ND		25.0	27.5		ug/L		110	60 - 140	3	20
tert-Butylbenzene	ND		25.0	27.0		ug/L		108	60 - 140	3	20
Carbon disulfide	ND		25.0	26.3		ug/L		105	38 - 140	3	20
Carbon tetrachloride	ND		25.0	22.2		ug/L		89	60 - 140	2	20
Chlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140	3	20
Chloroethane	ND		25.0	26.5		ug/L		106	51 - 140	3	20
Chloroform	ND		25.0	24.4		ug/L		98	60 - 140	2	20
Chloromethane	ND		25.0	25.5		ug/L		102	52 - 140	4	20
2-Chlorotoluene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
4-Chlorotoluene	ND		25.0	26.2		ug/L		105	60 - 140	3	20
Chlorodibromomethane	ND		25.0	24.0		ug/L		96	60 - 140	1	20
1,2-Dichlorobenzene	ND		25.0	27.5		ug/L		110	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140	2	20
1,4-Dichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140	3	20
1,3-Dichloropropane	ND		25.0	26.2		ug/L		105	60 - 140	1	20
1,1-Dichloropropane	ND		25.0	24.6		ug/L		99	60 - 140	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.0		ug/L		96	60 - 140	4	20
Ethylene Dibromide	ND		25.0	25.2		ug/L		101	60 - 140	1	20
Dibromomethane	ND		25.0	25.6		ug/L		102	60 - 140	2	20
Dichlorodifluoromethane	ND		25.0	20.1		ug/L		80	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	26.2		ug/L		105	60 - 140	2	20
1,2-Dichloroethane	ND		25.0	23.0		ug/L		92	60 - 140	0	20
1,1-Dichloroethene	ND		25.0	23.5		ug/L		94	60 - 140	4	20
cis-1,2-Dichloroethene	ND		25.0	25.1		ug/L		100	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	60 - 140	5	20
1,2-Dichloropropane	ND		25.0	28.7		ug/L		115	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	60 - 140	0	20
trans-1,3-Dichloropropene	ND		25.0	23.4		ug/L		93	60 - 140	0	20
Ethylbenzene	ND		25.0	26.7		ug/L		107	60 - 140	3	20
Hexachlorobutadiene	ND		25.0	22.5		ug/L		90	60 - 140	5	20
2-Hexanone	ND		125	141		ug/L		113	60 - 140	6	20
Isopropylbenzene	ND		25.0	26.5		ug/L		106	60 - 140	4	20
4-Isopropyltoluene	ND		25.0	26.0		ug/L		104	60 - 140	3	20
Methylene Chloride	ND		25.0	26.3		ug/L		105	40 - 140	2	20
4-Methyl-2-pentanone (MIBK)	ND		125	143		ug/L		115	58 - 130	5	20
Naphthalene	ND		25.0	28.6		ug/L		114	56 - 140	1	20
N-Propylbenzene	ND		25.0	27.5		ug/L		110	60 - 140	3	20
Styrene	ND		25.0	27.5		ug/L		110	60 - 140	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	60 - 140	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	30.2		ug/L		121	60 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-80751-2 MSD

Matrix: Water

Analysis Batch: 227272

Client Sample ID: GAC

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		25.0	23.4		ug/L		94	60 - 140	3	20
Toluene	ND		25.0	27.4		ug/L		110	60 - 140	3	20
1,2,3-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	25.3		ug/L		101	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	22.2		ug/L		89	60 - 140	2	20
1,1,2-Trichloroethane	ND		25.0	28.3		ug/L		113	60 - 140	1	20
Trichloroethene	ND		25.0	24.6		ug/L		99	60 - 140	2	20
Trichlorofluoromethane	ND		25.0	22.0		ug/L		88	60 - 140	4	20
1,2,3-Trichloropropane	ND		25.0	26.2		ug/L		105	60 - 140	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.1		ug/L		96	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	26.9		ug/L		107	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		25.0	27.1		ug/L		108	60 - 140	2	20
Vinyl acetate	ND		25.0	25.2		ug/L		101	40 - 140	3	20
Vinyl chloride	ND		25.0	24.3		ug/L		97	58 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	25.7		ug/L		103	60 - 140	3	20
o-Xylene	ND		25.0	26.5		ug/L		106	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	21.9		ug/L		88	60 - 140	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		72 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

GC/MS VOA

Analysis Batch: 227272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80751-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-80751-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-80751-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-227272/22	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-227272/32	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-227272/34	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-227272/33	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-227272/35	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-80751-2 MS	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-80751-2 MSD	GAC	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Client Sample ID: EFF
Date Collected: 07/19/17 11:35
Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	227272	07/27/17 02:01	BAJ	TAL PLS

Client Sample ID: GAC
Date Collected: 07/19/17 11:40
Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	227272	07/27/17 02:30	BAJ	TAL PLS

Client Sample ID: INF
Date Collected: 07/19/17 11:45
Date Received: 07/19/17 14:45

Lab Sample ID: 720-80751-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	227272	07/27/17 02:58	BAJ	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 3
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Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

- 1
- 2
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Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-80751-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-80751-1	EFF	Water	07/19/17 11:35	07/19/17 14:45
720-80751-2	GAC	Water	07/19/17 11:40	07/19/17 14:45
720-80751-3	INF	Water	07/19/17 11:45	07/19/17 14:45

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TestAmerica Pleasanton
1220 Quarry Lane

720-80751

Chain of Custody Record

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600 3002

Regulatory Program: DW NPDES RCRA Other:

TestAmerica
THE BEST OF CALIFORNIA SINCE 1991
TestAmerica Laboratories, Inc.

177149

COC No _____ of _____ COCS

Client Contact: Ninyo & Moore
1956 Webster Street, #400
Oakland/CA/94612
Phone: 510-343-3000
FAX: (xxx) xxx-xxxx
Project Name: Chum
Site: 401896004
P O #

Project Manager: Peter Sims
Tel/Fax: 510.343.3000
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Asha Turman
Lab Contact: Paloma Duong
Carrier: _____
Date: 7.17.17

Sampler ALT
For Lab Use Only:
Walk-in Client Lab Sampling
Job / SDG No _____
Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPHg & VOCs; EPA Method 8260E
EFF	7.19.17	1135	G	GW	3	N	N	X
GAC	7.19.17	1140	G	GW	3	N	N	X
INF	7.19.17	1145	G	GW	3	N	N	X



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact Yes No
Custody Seal No _____
Cooler Temp. (°C) Obs'd _____
Corr'd _____
Therm ID No _____

Relinquished by: _____
Company: TIA
Date/Time: 7/19/17
Received by: _____
Company: TIA
Date/Time: 7/19/17

Relinquished by: _____
Company: TIA
Date/Time: 7/19/17
Received in Laboratory by: _____
Company: TIA
Date/Time: 7-19-17 1445

2.50

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-80751-1

Login Number: 80751

List Number: 1

Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-81623-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
9/8/2017 10:14:54 AM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Job ID: 720-81623-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-81623-1**

Comments

No additional comments.

Receipt

The samples were received on 8/31/2017 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: INF

Lab Sample ID: 720-81623-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	2.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	3.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	34		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	130		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC

Lab Sample ID: 720-81623-2

No Detections.

Client Sample ID: EFF

Lab Sample ID: 720-81623-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: INF

Date Collected: 08/30/17 09:32

Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-1

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/07/17 00:27	1
Acetone	ND		50		ug/L			09/07/17 00:27	1
Benzene	5.6		0.50		ug/L			09/07/17 00:27	1
Dichlorobromomethane	ND		0.50		ug/L			09/07/17 00:27	1
Bromobenzene	ND		1.0		ug/L			09/07/17 00:27	1
Chlorobromomethane	ND		1.0		ug/L			09/07/17 00:27	1
Bromoform	ND		1.0		ug/L			09/07/17 00:27	1
Bromomethane	ND		1.0		ug/L			09/07/17 00:27	1
2-Butanone (MEK)	ND		50		ug/L			09/07/17 00:27	1
n-Butylbenzene	ND		1.0		ug/L			09/07/17 00:27	1
sec-Butylbenzene	ND		1.0		ug/L			09/07/17 00:27	1
tert-Butylbenzene	ND		1.0		ug/L			09/07/17 00:27	1
Carbon disulfide	ND		5.0		ug/L			09/07/17 00:27	1
Carbon tetrachloride	ND		0.50		ug/L			09/07/17 00:27	1
Chlorobenzene	ND		0.50		ug/L			09/07/17 00:27	1
Chloroethane	ND		1.0		ug/L			09/07/17 00:27	1
Chloroform	ND		1.0		ug/L			09/07/17 00:27	1
Chloromethane	ND		1.0		ug/L			09/07/17 00:27	1
2-Chlorotoluene	ND		0.50		ug/L			09/07/17 00:27	1
4-Chlorotoluene	ND		0.50		ug/L			09/07/17 00:27	1
Chlorodibromomethane	ND		0.50		ug/L			09/07/17 00:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:27	1
1,3-Dichloropropane	ND		1.0		ug/L			09/07/17 00:27	1
1,1-Dichloropropane	ND		0.50		ug/L			09/07/17 00:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/07/17 00:27	1
Ethylene Dibromide	ND		0.50		ug/L			09/07/17 00:27	1
Dibromomethane	ND		0.50		ug/L			09/07/17 00:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/07/17 00:27	1
1,1-Dichloroethane	ND		0.50		ug/L			09/07/17 00:27	1
1,2-Dichloroethane	ND		0.50		ug/L			09/07/17 00:27	1
1,1-Dichloroethene	ND		0.50		ug/L			09/07/17 00:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/07/17 00:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/07/17 00:27	1
1,2-Dichloropropane	ND		0.50		ug/L			09/07/17 00:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/07/17 00:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/07/17 00:27	1
Ethylbenzene	ND		0.50		ug/L			09/07/17 00:27	1
Hexachlorobutadiene	ND		1.0		ug/L			09/07/17 00:27	1
2-Hexanone	ND		50		ug/L			09/07/17 00:27	1
Isopropylbenzene	ND		0.50		ug/L			09/07/17 00:27	1
4-Isopropyltoluene	ND		1.0		ug/L			09/07/17 00:27	1
Methylene Chloride	ND		5.0		ug/L			09/07/17 00:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/07/17 00:27	1
Naphthalene	2.0		1.0		ug/L			09/07/17 00:27	1
N-Propylbenzene	ND		1.0		ug/L			09/07/17 00:27	1
Styrene	ND		0.50		ug/L			09/07/17 00:27	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/07/17 00:27	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: INF

Lab Sample ID: 720-81623-1

Date Collected: 08/30/17 09:32

Matrix: Water

Date Received: 08/31/17 11:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/07/17 00:27	1
Tetrachloroethene	ND		0.50		ug/L			09/07/17 00:27	1
Toluene	2.3		0.50		ug/L			09/07/17 00:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/07/17 00:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/07/17 00:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/07/17 00:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/07/17 00:27	1
Trichloroethene	ND		0.50		ug/L			09/07/17 00:27	1
Trichlorofluoromethane	ND		1.0		ug/L			09/07/17 00:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/07/17 00:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/07/17 00:27	1
1,2,4-Trimethylbenzene	2.6		0.50		ug/L			09/07/17 00:27	1
1,3,5-Trimethylbenzene	3.6		0.50		ug/L			09/07/17 00:27	1
Vinyl acetate	ND		10		ug/L			09/07/17 00:27	1
Vinyl chloride	ND		0.50		ug/L			09/07/17 00:27	1
Xylenes, Total	34		1.0		ug/L			09/07/17 00:27	1
2,2-Dichloropropane	ND		0.50		ug/L			09/07/17 00:27	1
Gasoline Range Organics (GRO)	130		50		ug/L			09/07/17 00:27	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		09/07/17 00:27	1
1,2-Dichloroethane-d4 (Surr)	77		72 - 130		09/07/17 00:27	1
Toluene-d8 (Surr)	95		70 - 130		09/07/17 00:27	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: GAC

Date Collected: 08/30/17 09:36

Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-2

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/07/17 00:55	1
Acetone	ND		50		ug/L			09/07/17 00:55	1
Benzene	ND		0.50		ug/L			09/07/17 00:55	1
Dichlorobromomethane	ND		0.50		ug/L			09/07/17 00:55	1
Bromobenzene	ND		1.0		ug/L			09/07/17 00:55	1
Chlorobromomethane	ND		1.0		ug/L			09/07/17 00:55	1
Bromoform	ND		1.0		ug/L			09/07/17 00:55	1
Bromomethane	ND		1.0		ug/L			09/07/17 00:55	1
2-Butanone (MEK)	ND		50		ug/L			09/07/17 00:55	1
n-Butylbenzene	ND		1.0		ug/L			09/07/17 00:55	1
sec-Butylbenzene	ND		1.0		ug/L			09/07/17 00:55	1
tert-Butylbenzene	ND		1.0		ug/L			09/07/17 00:55	1
Carbon disulfide	ND		5.0		ug/L			09/07/17 00:55	1
Carbon tetrachloride	ND		0.50		ug/L			09/07/17 00:55	1
Chlorobenzene	ND		0.50		ug/L			09/07/17 00:55	1
Chloroethane	ND		1.0		ug/L			09/07/17 00:55	1
Chloroform	ND		1.0		ug/L			09/07/17 00:55	1
Chloromethane	ND		1.0		ug/L			09/07/17 00:55	1
2-Chlorotoluene	ND		0.50		ug/L			09/07/17 00:55	1
4-Chlorotoluene	ND		0.50		ug/L			09/07/17 00:55	1
Chlorodibromomethane	ND		0.50		ug/L			09/07/17 00:55	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:55	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:55	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/07/17 00:55	1
1,3-Dichloropropane	ND		1.0		ug/L			09/07/17 00:55	1
1,1-Dichloropropene	ND		0.50		ug/L			09/07/17 00:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/07/17 00:55	1
Ethylene Dibromide	ND		0.50		ug/L			09/07/17 00:55	1
Dibromomethane	ND		0.50		ug/L			09/07/17 00:55	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/07/17 00:55	1
1,1-Dichloroethane	ND		0.50		ug/L			09/07/17 00:55	1
1,2-Dichloroethane	ND		0.50		ug/L			09/07/17 00:55	1
1,1-Dichloroethene	ND		0.50		ug/L			09/07/17 00:55	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/07/17 00:55	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/07/17 00:55	1
1,2-Dichloropropane	ND		0.50		ug/L			09/07/17 00:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/07/17 00:55	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/07/17 00:55	1
Ethylbenzene	ND		0.50		ug/L			09/07/17 00:55	1
Hexachlorobutadiene	ND		1.0		ug/L			09/07/17 00:55	1
2-Hexanone	ND		50		ug/L			09/07/17 00:55	1
Isopropylbenzene	ND		0.50		ug/L			09/07/17 00:55	1
4-Isopropyltoluene	ND		1.0		ug/L			09/07/17 00:55	1
Methylene Chloride	ND		5.0		ug/L			09/07/17 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/07/17 00:55	1
Naphthalene	ND		1.0		ug/L			09/07/17 00:55	1
N-Propylbenzene	ND		1.0		ug/L			09/07/17 00:55	1
Styrene	ND		0.50		ug/L			09/07/17 00:55	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/07/17 00:55	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: GAC

Lab Sample ID: 720-81623-2

Date Collected: 08/30/17 09:36

Matrix: Water

Date Received: 08/31/17 11:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/07/17 00:55	1
Tetrachloroethene	ND		0.50		ug/L			09/07/17 00:55	1
Toluene	ND		0.50		ug/L			09/07/17 00:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/07/17 00:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/07/17 00:55	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/07/17 00:55	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/07/17 00:55	1
Trichloroethene	ND		0.50		ug/L			09/07/17 00:55	1
Trichlorofluoromethane	ND		1.0		ug/L			09/07/17 00:55	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/07/17 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/07/17 00:55	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/07/17 00:55	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/07/17 00:55	1
Vinyl acetate	ND		10		ug/L			09/07/17 00:55	1
Vinyl chloride	ND		0.50		ug/L			09/07/17 00:55	1
Xylenes, Total	ND		1.0		ug/L			09/07/17 00:55	1
2,2-Dichloropropane	ND		0.50		ug/L			09/07/17 00:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/07/17 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		09/07/17 00:55	1
1,2-Dichloroethane-d4 (Surr)	75		72 - 130		09/07/17 00:55	1
Toluene-d8 (Surr)	95		70 - 130		09/07/17 00:55	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: EFF
Date Collected: 08/30/17 09:38
Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/06/17 21:37	1
Acetone	ND		50		ug/L			09/06/17 21:37	1
Benzene	ND		0.50		ug/L			09/06/17 21:37	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/17 21:37	1
Bromobenzene	ND		1.0		ug/L			09/06/17 21:37	1
Chlorobromomethane	ND		1.0		ug/L			09/06/17 21:37	1
Bromoform	ND		1.0		ug/L			09/06/17 21:37	1
Bromomethane	ND		1.0		ug/L			09/06/17 21:37	1
2-Butanone (MEK)	ND		50		ug/L			09/06/17 21:37	1
n-Butylbenzene	ND		1.0		ug/L			09/06/17 21:37	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/17 21:37	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/17 21:37	1
Carbon disulfide	ND		5.0		ug/L			09/06/17 21:37	1
Carbon tetrachloride	ND		0.50		ug/L			09/06/17 21:37	1
Chlorobenzene	ND		0.50		ug/L			09/06/17 21:37	1
Chloroethane	ND		1.0		ug/L			09/06/17 21:37	1
Chloroform	ND		1.0		ug/L			09/06/17 21:37	1
Chloromethane	ND		1.0		ug/L			09/06/17 21:37	1
2-Chlorotoluene	ND		0.50		ug/L			09/06/17 21:37	1
4-Chlorotoluene	ND		0.50		ug/L			09/06/17 21:37	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/17 21:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:37	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/17 21:37	1
1,1-Dichloropropene	ND		0.50		ug/L			09/06/17 21:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/06/17 21:37	1
Ethylene Dibromide	ND		0.50		ug/L			09/06/17 21:37	1
Dibromomethane	ND		0.50		ug/L			09/06/17 21:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/06/17 21:37	1
1,1-Dichloroethane	ND		0.50		ug/L			09/06/17 21:37	1
1,2-Dichloroethane	ND		0.50		ug/L			09/06/17 21:37	1
1,1-Dichloroethene	ND		0.50		ug/L			09/06/17 21:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/06/17 21:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/06/17 21:37	1
1,2-Dichloropropane	ND		0.50		ug/L			09/06/17 21:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/06/17 21:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/06/17 21:37	1
Ethylbenzene	ND		0.50		ug/L			09/06/17 21:37	1
Hexachlorobutadiene	ND		1.0		ug/L			09/06/17 21:37	1
2-Hexanone	ND		50		ug/L			09/06/17 21:37	1
Isopropylbenzene	ND		0.50		ug/L			09/06/17 21:37	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/17 21:37	1
Methylene Chloride	ND		5.0		ug/L			09/06/17 21:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/06/17 21:37	1
Naphthalene	ND		1.0		ug/L			09/06/17 21:37	1
N-Propylbenzene	ND		1.0		ug/L			09/06/17 21:37	1
Styrene	ND		0.50		ug/L			09/06/17 21:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/06/17 21:37	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: EFF
Date Collected: 08/30/17 09:38
Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/17 21:37	1
Tetrachloroethene	ND		0.50		ug/L			09/06/17 21:37	1
Toluene	ND		0.50		ug/L			09/06/17 21:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/17 21:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/17 21:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/06/17 21:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/06/17 21:37	1
Trichloroethene	ND		0.50		ug/L			09/06/17 21:37	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/17 21:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/06/17 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/06/17 21:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/06/17 21:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/06/17 21:37	1
Vinyl acetate	ND		10		ug/L			09/06/17 21:37	1
Vinyl chloride	ND		0.50		ug/L			09/06/17 21:37	1
Xylenes, Total	ND		1.0		ug/L			09/06/17 21:37	1
2,2-Dichloropropane	ND		0.50		ug/L			09/06/17 21:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/06/17 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		67 - 130		09/06/17 21:37	1
1,2-Dichloroethane-d4 (Surr)	72		72 - 130		09/06/17 21:37	1
Toluene-d8 (Surr)	95		70 - 130		09/06/17 21:37	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-229649/9
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/06/17 21:09	1
Acetone	ND		50		ug/L			09/06/17 21:09	1
Benzene	ND		0.50		ug/L			09/06/17 21:09	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/17 21:09	1
Bromobenzene	ND		1.0		ug/L			09/06/17 21:09	1
Chlorobromomethane	ND		1.0		ug/L			09/06/17 21:09	1
Bromoform	ND		1.0		ug/L			09/06/17 21:09	1
Bromomethane	ND		1.0		ug/L			09/06/17 21:09	1
2-Butanone (MEK)	ND		50		ug/L			09/06/17 21:09	1
n-Butylbenzene	ND		1.0		ug/L			09/06/17 21:09	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/17 21:09	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/17 21:09	1
Carbon disulfide	ND		5.0		ug/L			09/06/17 21:09	1
Carbon tetrachloride	ND		0.50		ug/L			09/06/17 21:09	1
Chlorobenzene	ND		0.50		ug/L			09/06/17 21:09	1
Chloroethane	ND		1.0		ug/L			09/06/17 21:09	1
Chloroform	ND		1.0		ug/L			09/06/17 21:09	1
Chloromethane	ND		1.0		ug/L			09/06/17 21:09	1
2-Chlorotoluene	ND		0.50		ug/L			09/06/17 21:09	1
4-Chlorotoluene	ND		0.50		ug/L			09/06/17 21:09	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/17 21:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/06/17 21:09	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/17 21:09	1
1,1-Dichloropropene	ND		0.50		ug/L			09/06/17 21:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/06/17 21:09	1
Ethylene Dibromide	ND		0.50		ug/L			09/06/17 21:09	1
Dibromomethane	ND		0.50		ug/L			09/06/17 21:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/06/17 21:09	1
1,1-Dichloroethane	ND		0.50		ug/L			09/06/17 21:09	1
1,2-Dichloroethane	ND		0.50		ug/L			09/06/17 21:09	1
1,1-Dichloroethene	ND		0.50		ug/L			09/06/17 21:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/06/17 21:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/06/17 21:09	1
1,2-Dichloropropane	ND		0.50		ug/L			09/06/17 21:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/06/17 21:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/06/17 21:09	1
Ethylbenzene	ND		0.50		ug/L			09/06/17 21:09	1
Hexachlorobutadiene	ND		1.0		ug/L			09/06/17 21:09	1
2-Hexanone	ND		50		ug/L			09/06/17 21:09	1
Isopropylbenzene	ND		0.50		ug/L			09/06/17 21:09	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/17 21:09	1
Methylene Chloride	ND		5.0		ug/L			09/06/17 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/06/17 21:09	1
Naphthalene	ND		1.0		ug/L			09/06/17 21:09	1
N-Propylbenzene	ND		1.0		ug/L			09/06/17 21:09	1
Styrene	ND		0.50		ug/L			09/06/17 21:09	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-229649/9
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/06/17 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/17 21:09	1
Tetrachloroethene	ND		0.50		ug/L			09/06/17 21:09	1
Toluene	ND		0.50		ug/L			09/06/17 21:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/17 21:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/17 21:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/06/17 21:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/06/17 21:09	1
Trichloroethene	ND		0.50		ug/L			09/06/17 21:09	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/17 21:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/06/17 21:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/06/17 21:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/06/17 21:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/06/17 21:09	1
Vinyl acetate	ND		10		ug/L			09/06/17 21:09	1
Vinyl chloride	ND		0.50		ug/L			09/06/17 21:09	1
Xylenes, Total	ND		1.0		ug/L			09/06/17 21:09	1
2,2-Dichloropropane	ND		0.50		ug/L			09/06/17 21:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/06/17 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		09/06/17 21:09	1
1,2-Dichloroethane-d4 (Surr)	74		72 - 130		09/06/17 21:09	1
Toluene-d8 (Surr)	98		70 - 130		09/06/17 21:09	1

Lab Sample ID: LCS 720-229649/5
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	20.4		ug/L		82	62 - 130
Acetone	125	125		ug/L		100	26 - 180
Benzene	25.0	24.4		ug/L		97	79 - 130
Dichlorobromomethane	25.0	22.2		ug/L		89	70 - 130
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130
Bromoform	25.0	23.7		ug/L		95	68 - 136
Bromomethane	25.0	22.8		ug/L		91	43 - 151
2-Butanone (MEK)	125	114		ug/L		91	54 - 153
n-Butylbenzene	25.0	25.6		ug/L		103	70 - 142
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 134
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 135
Carbon disulfide	25.0	26.3		ug/L		105	68 - 146
Carbon tetrachloride	25.0	25.8		ug/L		103	70 - 146
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	21.2		ug/L		85	62 - 138
Chloroform	25.0	22.3		ug/L		89	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-229649/5

Matrix: Water

Analysis Batch: 229649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	20.1		ug/L		80	52 - 175
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
4-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130
Chlorodibromomethane	25.0	22.7		ug/L		91	70 - 145
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	20.8		ug/L		83	70 - 130
1,1-Dichloropropene	25.0	25.6		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.6		ug/L		102	70 - 136
Ethylene Dibromide	25.0	22.6		ug/L		91	70 - 130
Dibromomethane	25.0	21.7		ug/L		87	70 - 130
Dichlorodifluoromethane	25.0	22.5		ug/L		90	32 - 158
1,1-Dichloroethane	25.0	23.1		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	18.8		ug/L		75	61 - 132
1,1-Dichloroethene	25.0	24.3		ug/L		97	64 - 128
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	68 - 130
1,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130
trans-1,3-Dichloropropene	25.0	20.9		ug/L		83	70 - 140
Ethylbenzene	25.0	24.7		ug/L		99	80 - 120
Hexachlorobutadiene	25.0	30.6		ug/L		122	70 - 130
2-Hexanone	125	101		ug/L		81	60 - 164
Isopropylbenzene	25.0	26.0		ug/L		104	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
Methylene Chloride	25.0	22.9		ug/L		92	70 - 147
4-Methyl-2-pentanone (MIBK)	125	100		ug/L		80	50 - 155
Naphthalene	25.0	24.5		ug/L		98	50 - 130
N-Propylbenzene	25.0	25.1		ug/L		100	70 - 130
Styrene	25.0	23.4		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	21.9		ug/L		87	70 - 130
Tetrachloroethene	25.0	28.7		ug/L		115	70 - 130
Toluene	25.0	24.9		ug/L		100	78 - 120
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
Trichloroethene	25.0	27.0		ug/L		108	70 - 130
Trichlorofluoromethane	25.0	26.4		ug/L		106	66 - 132
1,2,3-Trichloropropane	25.0	22.9		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.5		ug/L		114	42 - 162
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 132
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
Vinyl acetate	25.0	17.7		ug/L		71	43 - 163
Vinyl chloride	25.0	20.9		ug/L		84	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-229649/5
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 142
o-Xylene	25.0	23.8		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	28.4		ug/L		114	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	88		67 - 130
1,2-Dichloroethane-d4 (Surr)	74		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-229649/7
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	456		ug/L		91	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	88		67 - 130
1,2-Dichloroethane-d4 (Surr)	77		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-229649/6
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	21.9		ug/L		87	62 - 130	7	20
Acetone	125	152		ug/L		121	26 - 180	20	30
Benzene	25.0	24.1		ug/L		96	79 - 130	1	20
Dichlorobromomethane	25.0	22.5		ug/L		90	70 - 130	1	20
Bromobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
Chlorobromomethane	25.0	25.4		ug/L		102	70 - 130	3	20
Bromoform	25.0	25.3		ug/L		101	68 - 136	7	20
Bromomethane	25.0	22.3		ug/L		89	43 - 151	2	20
2-Butanone (MEK)	125	134		ug/L		107	54 - 153	16	20
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 142	4	20
sec-Butylbenzene	25.0	24.9		ug/L		100	70 - 134	4	20
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 135	3	20
Carbon disulfide	25.0	25.6		ug/L		103	68 - 146	3	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 146	2	20
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Chloroethane	25.0	20.5		ug/L		82	62 - 138	3	20
Chloroform	25.0	22.3		ug/L		89	70 - 130	0	20
Chloromethane	25.0	19.1		ug/L		76	52 - 175	5	20
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	2	20
4-Chlorotoluene	25.0	22.9		ug/L		91	70 - 130	2	20
Chlorodibromomethane	25.0	23.7		ug/L		95	70 - 145	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-229649/6

Matrix: Water

Analysis Batch: 229649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20
1,3-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	4	20
1,1-Dichloropropene	25.0	25.1		ug/L		100	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	28.5		ug/L		114	70 - 136	11	20
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	5	20
Dibromomethane	25.0	22.8		ug/L		91	70 - 130	5	20
Dichlorodifluoromethane	25.0	22.3		ug/L		89	32 - 158	1	20
1,1-Dichloroethane	25.0	23.0		ug/L		92	70 - 130	1	20
1,2-Dichloroethane	25.0	19.3		ug/L		77	61 - 132	3	20
1,1-Dichloroethene	25.0	23.9		ug/L		95	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	68 - 130	1	20
1,2-Dichloropropane	25.0	23.1		ug/L		93	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	22.8		ug/L		91	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	21.6		ug/L		86	70 - 140	3	20
Ethylbenzene	25.0	24.3		ug/L		97	80 - 120	2	20
Hexachlorobutadiene	25.0	29.6		ug/L		118	70 - 130	3	20
2-Hexanone	125	119		ug/L		95	60 - 164	16	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	4	20
Methylene Chloride	25.0	23.1		ug/L		92	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	50 - 155	14	20
Naphthalene	25.0	25.9		ug/L		104	50 - 130	6	20
N-Propylbenzene	25.0	24.4		ug/L		97	70 - 130	3	20
Styrene	25.0	23.5		ug/L		94	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	70 - 130	6	20
Tetrachloroethene	25.0	28.1		ug/L		112	70 - 130	2	20
Toluene	25.0	24.7		ug/L		99	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		105	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130	5	20
Trichloroethene	25.0	26.6		ug/L		107	70 - 130	1	20
Trichlorofluoromethane	25.0	25.6		ug/L		102	66 - 132	3	20
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.6		ug/L		110	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 132	2	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Vinyl acetate	25.0	18.3		ug/L		73	43 - 163	3	20
Vinyl chloride	25.0	20.3		ug/L		81	54 - 135	3	20
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 142	1	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	0	20
2,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 140	8	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-229649/6
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	77		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-229649/8
Matrix: Water
Analysis Batch: 229649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	454		ug/L		91	71 - 125	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	88		67 - 130
1,2-Dichloroethane-d4 (Surr)	75		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 720-81623-1 MS
Matrix: Water
Analysis Batch: 229649

Client Sample ID: INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	20.5		ug/L		82	60 - 138
Acetone	ND		125	143		ug/L		115	60 - 140
Benzene	5.6		25.0	29.4		ug/L		95	60 - 140
Dichlorobromomethane	ND		25.0	21.6		ug/L		86	60 - 140
Bromobenzene	ND		25.0	25.6		ug/L		102	60 - 140
Chlorobromomethane	ND		25.0	25.0		ug/L		100	60 - 140
Bromoform	ND		25.0	26.2		ug/L		105	56 - 140
Bromomethane	ND		25.0	22.0		ug/L		88	23 - 140
2-Butanone (MEK)	ND		125	137		ug/L		109	60 - 140
n-Butylbenzene	ND		25.0	25.0		ug/L		100	60 - 140
sec-Butylbenzene	ND		25.0	26.6		ug/L		106	60 - 140
tert-Butylbenzene	ND		25.0	27.5		ug/L		110	60 - 140
Carbon disulfide	ND		25.0	27.1		ug/L		109	38 - 140
Carbon tetrachloride	ND		25.0	26.7		ug/L		107	60 - 140
Chlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140
Chloroethane	ND		25.0	21.6		ug/L		86	51 - 140
Chloroform	ND		25.0	22.0		ug/L		88	60 - 140
Chloromethane	ND		25.0	20.1		ug/L		81	52 - 140
2-Chlorotoluene	ND		25.0	23.8		ug/L		95	60 - 140
4-Chlorotoluene	ND		25.0	23.3		ug/L		93	60 - 140
Chlorodibromomethane	ND		25.0	22.7		ug/L		91	60 - 140
1,2-Dichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,3-Dichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140
1,3-Dichloropropane	ND		25.0	21.0		ug/L		84	60 - 140
1,1-Dichloropropene	ND		25.0	25.8		ug/L		103	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-81623-1 MS

Matrix: Water

Analysis Batch: 229649

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	32.5		ug/L		130	60 - 140
Ethylene Dibromide	ND		25.0	23.5		ug/L		94	60 - 140
Dibromomethane	ND		25.0	22.5		ug/L		90	60 - 140
Dichlorodifluoromethane	ND		25.0	24.4		ug/L		98	38 - 140
1,1-Dichloroethane	ND		25.0	22.8		ug/L		91	60 - 140
1,2-Dichloroethane	ND		25.0	18.9		ug/L		76	60 - 140
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
cis-1,2-Dichloroethene	ND		25.0	21.7		ug/L		87	60 - 140
trans-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	60 - 140
1,2-Dichloropropane	ND		25.0	22.2		ug/L		89	60 - 140
cis-1,3-Dichloropropene	ND		25.0	20.9		ug/L		84	60 - 140
trans-1,3-Dichloropropene	ND		25.0	19.9		ug/L		80	60 - 140
Ethylbenzene	ND		25.0	24.6		ug/L		98	60 - 140
Hexachlorobutadiene	ND		25.0	29.9		ug/L		120	60 - 140
2-Hexanone	ND		125	119		ug/L		95	60 - 140
Isopropylbenzene	ND		25.0	26.1		ug/L		104	60 - 140
4-Isopropyltoluene	ND		25.0	26.2		ug/L		105	60 - 140
Methylene Chloride	ND		25.0	22.6		ug/L		90	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	115		ug/L		92	58 - 130
Naphthalene	2.0		25.0	29.1		ug/L		108	56 - 140
N-Propylbenzene	ND		25.0	25.4		ug/L		102	60 - 140
Styrene	ND		25.0	22.3		ug/L		89	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.8		ug/L		99	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	24.9		ug/L		100	60 - 140
Tetrachloroethene	ND		25.0	28.3		ug/L		113	60 - 140
Toluene	2.3		25.0	27.1		ug/L		99	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.2		ug/L		109	60 - 140
1,1,2-Trichloroethane	ND		25.0	22.6		ug/L		90	60 - 140
Trichloroethene	ND		25.0	26.9		ug/L		107	60 - 140
Trichlorofluoromethane	ND		25.0	27.4		ug/L		110	60 - 140
1,2,3-Trichloropropane	ND		25.0	26.8		ug/L		107	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.4		ug/L		118	60 - 140
1,2,4-Trimethylbenzene	2.6		25.0	26.6		ug/L		96	60 - 140
1,3,5-Trimethylbenzene	3.6		25.0	28.6		ug/L		100	60 - 140
Vinyl acetate	ND		25.0	17.3		ug/L		69	40 - 140
Vinyl chloride	ND		25.0	21.3		ug/L		85	58 - 140
m-Xylene & p-Xylene	17		25.0	40.0		ug/L		93	60 - 140
o-Xylene	18		25.0	40.2		ug/L		90	60 - 140
2,2-Dichloropropane	ND		25.0	27.3		ug/L		109	60 - 140

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene	86		67 - 130
1,2-Dichloroethane-d4 (Surr)	75		72 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-81623-1 MSD

Matrix: Water

Analysis Batch: 229649

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Methyl tert-butyl ether	ND		25.0	25.0		ug/L		100	60 - 138	20	20
Acetone	ND		125	121		ug/L		97	60 - 140	17	20
Benzene	5.6		25.0	30.0		ug/L		97	60 - 140	2	20
Dichlorobromomethane	ND		25.0	24.5		ug/L		98	60 - 140	13	20
Bromobenzene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
Chlorobromomethane	ND		25.0	28.0		ug/L		112	60 - 140	11	20
Bromoform	ND		25.0	27.7		ug/L		111	56 - 140	6	20
Bromomethane	ND		25.0	21.7		ug/L		87	23 - 140	1	20
2-Butanone (MEK)	ND		125	117		ug/L		94	60 - 140	16	20
n-Butylbenzene	ND		25.0	21.5		ug/L		86	60 - 140	15	20
sec-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	13	20
tert-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	12	20
Carbon disulfide	ND		25.0	23.8		ug/L		95	38 - 140	13	20
Carbon tetrachloride	ND		25.0	24.2		ug/L		97	60 - 140	9	20
Chlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Chloroethane	ND		25.0	19.7		ug/L		79	51 - 140	9	20
Chloroform	ND		25.0	23.2		ug/L		93	60 - 140	5	20
Chloromethane	ND		25.0	18.3		ug/L		73	52 - 140	10	20
2-Chlorotoluene	ND		25.0	22.7		ug/L		91	60 - 140	5	20
4-Chlorotoluene	ND		25.0	22.1		ug/L		88	60 - 140	6	20
Chlorodibromomethane	ND		25.0	26.8		ug/L		107	60 - 140	17	20
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	60 - 140	4	20
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	24.2		ug/L		97	60 - 140	14	20
1,1-Dichloropropene	ND		25.0	23.4		ug/L		94	60 - 140	10	20
1,2-Dibromo-3-Chloropropane	ND		25.0	28.7		ug/L		115	60 - 140	13	20
Ethylene Dibromide	ND		25.0	26.4		ug/L		106	60 - 140	12	20
Dibromomethane	ND		25.0	25.1		ug/L		101	60 - 140	11	20
Dichlorodifluoromethane	ND		25.0	20.4		ug/L		82	38 - 140	18	20
1,1-Dichloroethane	ND		25.0	23.0		ug/L		92	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	21.4		ug/L		86	60 - 140	12	20
1,1-Dichloroethene	ND		25.0	21.1		ug/L		84	60 - 140	15	20
cis-1,2-Dichloroethene	ND		25.0	22.6		ug/L		90	60 - 140	4	20
trans-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	60 - 140	6	20
1,2-Dichloropropane	ND		25.0	24.6		ug/L		98	60 - 140	10	20
cis-1,3-Dichloropropene	ND		25.0	24.2		ug/L		97	60 - 140	15	20
trans-1,3-Dichloropropene	ND		25.0	23.4		ug/L		94	60 - 140	16	20
Ethylbenzene	ND		25.0	22.9		ug/L		92	60 - 140	7	20
Hexachlorobutadiene	ND		25.0	26.3		ug/L		105	60 - 140	13	20
2-Hexanone	ND		125	113		ug/L		90	60 - 140	5	20
Isopropylbenzene	ND		25.0	23.7		ug/L		95	60 - 140	9	20
4-Isopropyltoluene	ND		25.0	23.2		ug/L		93	60 - 140	12	20
Methylene Chloride	ND		25.0	24.2		ug/L		97	40 - 140	7	20
4-Methyl-2-pentanone (MIBK)	ND		125	114		ug/L		91	58 - 130	1	20
Naphthalene	2.0		25.0	29.4		ug/L		109	56 - 140	1	20
N-Propylbenzene	ND		25.0	22.4		ug/L		90	60 - 140	13	20
Styrene	ND		25.0	22.8		ug/L		91	60 - 140	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-81623-1 MSD

Matrix: Water

Analysis Batch: 229649

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 140	6	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.6		ug/L		98	60 - 140	1	20
Tetrachloroethene	ND		25.0	26.3		ug/L		105	60 - 140	7	20
Toluene	2.3		25.0	25.5		ug/L		93	60 - 140	6	20
1,2,3-Trichlorobenzene	ND		25.0	27.6		ug/L		110	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		25.0	25.3		ug/L		101	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L		103	60 - 140	5	20
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	60 - 140	14	20
Trichloroethene	ND		25.0	25.9		ug/L		104	60 - 140	4	20
Trichlorofluoromethane	ND		25.0	23.9		ug/L		96	60 - 140	14	20
1,2,3-Trichloropropane	ND		25.0	25.5		ug/L		102	60 - 140	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.4		ug/L		102	60 - 140	15	20
1,2,4-Trimethylbenzene	2.6		25.0	25.5		ug/L		91	60 - 140	4	20
1,3,5-Trimethylbenzene	3.6		25.0	26.5		ug/L		92	60 - 140	7	20
Vinyl acetate	ND		25.0	18.7		ug/L		75	40 - 140	8	20
Vinyl chloride	ND		25.0	18.5		ug/L		74	58 - 140	14	20
m-Xylene & p-Xylene	17		25.0	37.9		ug/L		84	60 - 140	6	20
o-Xylene	18		25.0	39.7		ug/L		88	60 - 140	1	20
2,2-Dichloropropane	ND		25.0	24.1		ug/L		96	60 - 140	13	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
4-Bromofluorobenzene		89		67 - 130							
1,2-Dichloroethane-d4 (Surr)		85		72 - 130							
Toluene-d8 (Surr)		100		70 - 130							

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

GC/MS VOA

Analysis Batch: 229649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81623-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-81623-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-81623-3	EFF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-229649/9	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-229649/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-229649/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-229649/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-229649/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-81623-1 MS	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-81623-1 MSD	INF	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Client Sample ID: INF

Date Collected: 08/30/17 09:32

Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	229649	09/07/17 00:27	JRM	TAL PLS

Client Sample ID: GAC

Date Collected: 08/30/17 09:36

Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	229649	09/07/17 00:55	JRM	TAL PLS

Client Sample ID: EFF

Date Collected: 08/30/17 09:38

Date Received: 08/31/17 11:50

Lab Sample ID: 720-81623-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	229649	09/06/17 21:37	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81623-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-81623-1	INF	Water	08/30/17 09:32	08/31/17 11:50
720-81623-2	GAC	Water	08/30/17 09:36	08/31/17 11:50
720-81623-3	EFF	Water	08/30/17 09:38	08/31/17 11:50

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
720-816223

TESTAMERICA Pleasanton Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Date 8/30/17 Page 1 of 1
 178020
 9/8/2017

Report To Peter Sims **Analysis Request**

Alt: Peter Sims
 Company: Nimup + Moore
 Address: 1956 Webster St, Oakland
 Email: PSims@nimupandmoore.com
 Bill To: Peter Sims Sampled By: PS AH
 Phone: _____

Sample ID	Date	Time	Mat	Preserv	
INE	8/30	932	HD	AC1	X
GAC	8/30	936	HD	AC1	X
EFF	8/30	938	HD	AC1	X



Project Info

Project Name/ #: _____
 PO#: 401896004
 Temp: 3.0 °C

Sample Receipt

1) Relinquished by: _____
 Signature: _____
 Printed Name: Helen Liu
 Date: 8/31/17
 Time: 1100

2) Relinquished by: _____
 Signature: _____
 Printed Name: Robert
 Date: 8/31/17
 Time: 1150

3) Relinquished by: _____
 Signature: _____
 Printed Name: _____
 Date: _____
 Time: _____

Credit Card Y/N _____
 If yes, please call with payment information ASAP

1) Received by: _____
 Signature: _____
 Printed Name: Robert
 Date: 8/31/17
 Time: 1100

2) Received by: _____
 Signature: _____
 Printed Name: Robert
 Date: 8/31/17
 Time: 1150

3) Received by: _____
 Signature: _____
 Printed Name: _____
 Date: _____
 Time: _____

Report: Routine Level 3 Level 4 EDD EDF
 Special Instructions / Comments: Global ID _____

See Terms and Conditions on reverse

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-81623-1

Login Number: 81623

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-81938-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
9/25/2017 1:06:48 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
QC Sample Results	21
QC Association Summary	37
Lab Chronicle	41
Certification Summary	44
Method Summary	45
Sample Summary	46
Chain of Custody	47
Receipt Checklists	49

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Job ID: 720-81938-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-81938-1

Comments

No additional comments.

Receipt

The samples were received on 9/14/2017 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

Receipt Exceptions

All three 40ml Hcl VOC vials and all three Ferrous Fe vials for the following sample was received broken: MW-6R. Poly bottles were in the ziploc bag with the vials were frozen for both MW-6R and MW-14.

One of three 40ml Hcl VOC vials and all 2 of three Ferrous Fe vials for the following sample was received broken: MW-14.

Headspace > 1/4 " in one of two of the 40ml Hcl VOC vials: MW-14, and one vial has an airbubble > 1/4".

Air bubble > 1/4 " in one of three of the 40ml Hcl VOC vials: MW-10.

GC/MS VOA

Method 8260B: The following volatile sample was analyzed with significant headspace in the sample Container: MW-15 (720-81938-3). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The laboratory control sample (LCS) for analytical batch 720-230529 recovered outside control limits for the following analytes: Carbon Disulfide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: (720-81907-A-18), (720-81907-A-18 MS) and (720-81907-A-18 MSD).

Method 8260B: The continuing calibration verification (CCV) associated with batch 720-230613 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-9 (720-81938-2) and MW-15 (720-81938-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: Reanalysis of the following sample was performed outside of the analytical holding time due to a dilution being required : MW-6R (720-81938-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-10

Lab Sample ID: 720-81938-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	5.6		1.0		mg/L	1		300.0	Total/NA
Iron	17		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	17		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-81938-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	92		10		mg/L	10		300.0	Total/NA
Iron	21		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	21		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.10	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 720-81938-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.95		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	31		10		mg/L	10		300.0	Total/NA
Iron	54		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	54		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.35	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 720-81938-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	2.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	3.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	1.9		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	100		10		mg/L	10		300.0	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-81938-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	190		10		mg/L	10		300.0	Total/NA
Iron	6.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.4		0.10		mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-6R

Lab Sample ID: 720-81938-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	330	H	100		mg/L	100		300.0	Total/NA
Ammonia	2.5		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 720-81938-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	3.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	20		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	54		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	20		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	11		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	1.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Vinyl acetate	17		10		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	23		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1900		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	3.6		1.0		mg/L	1		300.0	Total/NA
Iron	14		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	10		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.9	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 720-81938-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	4.7		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.7	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-10

Date Collected: 09/13/17 09:50

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-1

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/22/17 13:11	1
Acetone	ND		50		ug/L			09/22/17 13:11	1
Benzene	ND		0.50		ug/L			09/22/17 13:11	1
Dichlorobromomethane	ND		0.50		ug/L			09/22/17 13:11	1
Bromobenzene	ND		1.0		ug/L			09/22/17 13:11	1
Chlorobromomethane	ND		1.0		ug/L			09/22/17 13:11	1
Bromoform	ND		1.0		ug/L			09/22/17 13:11	1
Bromomethane	ND		1.0		ug/L			09/22/17 13:11	1
2-Butanone (MEK)	ND		50		ug/L			09/22/17 13:11	1
n-Butylbenzene	ND		1.0		ug/L			09/22/17 13:11	1
sec-Butylbenzene	ND		1.0		ug/L			09/22/17 13:11	1
tert-Butylbenzene	ND		1.0		ug/L			09/22/17 13:11	1
Carbon disulfide	ND		5.0		ug/L			09/22/17 13:11	1
Carbon tetrachloride	ND		0.50		ug/L			09/22/17 13:11	1
Chlorobenzene	ND		0.50		ug/L			09/22/17 13:11	1
Chloroethane	ND		1.0		ug/L			09/22/17 13:11	1
Chloroform	ND		1.0		ug/L			09/22/17 13:11	1
Chloromethane	ND		1.0		ug/L			09/22/17 13:11	1
2-Chlorotoluene	ND		0.50		ug/L			09/22/17 13:11	1
4-Chlorotoluene	ND		0.50		ug/L			09/22/17 13:11	1
Chlorodibromomethane	ND		0.50		ug/L			09/22/17 13:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/22/17 13:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/22/17 13:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/22/17 13:11	1
1,3-Dichloropropane	ND		1.0		ug/L			09/22/17 13:11	1
1,1-Dichloropropene	ND		0.50		ug/L			09/22/17 13:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/22/17 13:11	1
Ethylene Dibromide	ND		0.50		ug/L			09/22/17 13:11	1
Dibromomethane	ND		0.50		ug/L			09/22/17 13:11	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/22/17 13:11	1
1,1-Dichloroethane	ND		0.50		ug/L			09/22/17 13:11	1
1,2-Dichloroethane	ND		0.50		ug/L			09/22/17 13:11	1
1,1-Dichloroethene	ND		0.50		ug/L			09/22/17 13:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 13:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 13:11	1
1,2-Dichloropropane	ND		0.50		ug/L			09/22/17 13:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 13:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 13:11	1
Ethylbenzene	ND		0.50		ug/L			09/22/17 13:11	1
Hexachlorobutadiene	ND		1.0		ug/L			09/22/17 13:11	1
2-Hexanone	ND		50		ug/L			09/22/17 13:11	1
Isopropylbenzene	ND		0.50		ug/L			09/22/17 13:11	1
4-Isopropyltoluene	ND		1.0		ug/L			09/22/17 13:11	1
Methylene Chloride	ND		5.0		ug/L			09/22/17 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/22/17 13:11	1
Naphthalene	ND		1.0		ug/L			09/22/17 13:11	1
N-Propylbenzene	ND		1.0		ug/L			09/22/17 13:11	1
Styrene	ND		0.50		ug/L			09/22/17 13:11	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 13:11	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-10

Lab Sample ID: 720-81938-1

Date Collected: 09/13/17 09:50

Matrix: Water

Date Received: 09/14/17 15:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 13:11	1
Tetrachloroethene	ND		0.50		ug/L			09/22/17 13:11	1
Toluene	ND		0.50		ug/L			09/22/17 13:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/22/17 13:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/22/17 13:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/22/17 13:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/22/17 13:11	1
Trichloroethene	ND		0.50		ug/L			09/22/17 13:11	1
Trichlorofluoromethane	ND		1.0		ug/L			09/22/17 13:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/22/17 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/22/17 13:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/22/17 13:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/22/17 13:11	1
Vinyl acetate	ND		10		ug/L			09/22/17 13:11	1
Vinyl chloride	ND		0.50		ug/L			09/22/17 13:11	1
Xylenes, Total	ND		1.0		ug/L			09/22/17 13:11	1
2,2-Dichloropropane	ND		0.50		ug/L			09/22/17 13:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/22/17 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		09/22/17 13:11	1
1,2-Dichloroethane-d4 (Surr)	110		72 - 130		09/22/17 13:11	1
Toluene-d8 (Surr)	97		70 - 130		09/22/17 13:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/14/17 22:12	1
Nitrate as NO3	5.6		1.0		mg/L			09/14/17 22:12	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17		1.0		mg/L		09/19/17 13:03	09/19/17 22:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	17		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	ND	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 13:52	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-9
Date Collected: 09/13/17 10:20
Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/21/17 22:14	1
Acetone	ND		50		ug/L			09/21/17 04:40	1
Benzene	ND		0.50		ug/L			09/21/17 22:14	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 04:40	1
Bromobenzene	ND		1.0		ug/L			09/21/17 04:40	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 04:40	1
Bromoform	ND		1.0		ug/L			09/21/17 04:40	1
Bromomethane	ND		1.0		ug/L			09/21/17 04:40	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 04:40	1
n-Butylbenzene	ND		1.0		ug/L			09/21/17 04:40	1
sec-Butylbenzene	ND		1.0		ug/L			09/21/17 04:40	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 04:40	1
Carbon disulfide	ND	*	5.0		ug/L			09/21/17 04:40	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 04:40	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 04:40	1
Chloroethane	ND		1.0		ug/L			09/21/17 04:40	1
Chloroform	ND		1.0		ug/L			09/21/17 04:40	1
Chloromethane	ND		1.0		ug/L			09/21/17 04:40	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 04:40	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 04:40	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 04:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 04:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 04:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 04:40	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 04:40	1
1,1-Dichloropropene	ND		0.50		ug/L			09/21/17 04:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 04:40	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 04:40	1
Dibromomethane	ND		0.50		ug/L			09/21/17 04:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 04:40	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 04:40	1
1,2-Dichloroethane	ND		0.50		ug/L			09/21/17 04:40	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 04:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 04:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 04:40	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 04:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 04:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 04:40	1
Ethylbenzene	ND		0.50		ug/L			09/21/17 04:40	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 04:40	1
2-Hexanone	ND		50		ug/L			09/21/17 04:40	1
Isopropylbenzene	ND		0.50		ug/L			09/21/17 04:40	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 04:40	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 04:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 04:40	1
Naphthalene	ND		1.0		ug/L			09/21/17 04:40	1
N-Propylbenzene	ND		1.0		ug/L			09/21/17 04:40	1
Styrene	ND		0.50		ug/L			09/21/17 04:40	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 04:40	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-9
Date Collected: 09/13/17 10:20
Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 04:40	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 04:40	1
Toluene	ND		0.50		ug/L			09/21/17 04:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 04:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 04:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 04:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 04:40	1
Trichloroethene	ND		0.50		ug/L			09/21/17 04:40	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 04:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 04:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 04:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/21/17 04:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/21/17 04:40	1
Vinyl acetate	ND		10		ug/L			09/21/17 04:40	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 04:40	1
Xylenes, Total	ND		1.0		ug/L			09/21/17 04:40	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 04:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/21/17 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		09/21/17 04:40	1
4-Bromofluorobenzene	93		67 - 130		09/21/17 22:14	1
1,2-Dichloroethane-d4 (Surr)	111		72 - 130		09/21/17 04:40	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		09/21/17 22:14	1
Toluene-d8 (Surr)	98		70 - 130		09/21/17 04:40	1
Toluene-d8 (Surr)	97		70 - 130		09/21/17 22:14	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/14/17 22:46	1
Nitrate as NO3	92		10		mg/L			09/14/17 23:03	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21		1.0		mg/L		09/19/17 13:03	09/19/17 22:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	21		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	0.10	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:01	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-15

Date Collected: 09/13/17 11:30

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	5.2		0.50		ug/L			09/21/17 22:43	1
Acetone	ND		50		ug/L			09/21/17 05:08	1
Benzene	ND		0.50		ug/L			09/21/17 22:43	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 05:08	1
Bromobenzene	ND		1.0		ug/L			09/21/17 05:08	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 05:08	1
Bromoform	ND		1.0		ug/L			09/21/17 05:08	1
Bromomethane	ND		1.0		ug/L			09/21/17 05:08	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 05:08	1
n-Butylbenzene	ND		1.0		ug/L			09/21/17 05:08	1
sec-Butylbenzene	ND		1.0		ug/L			09/21/17 05:08	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 05:08	1
Carbon disulfide	ND *		5.0		ug/L			09/21/17 05:08	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 05:08	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 05:08	1
Chloroethane	ND		1.0		ug/L			09/21/17 05:08	1
Chloroform	ND		1.0		ug/L			09/21/17 05:08	1
Chloromethane	ND		1.0		ug/L			09/21/17 05:08	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 05:08	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 05:08	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 05:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:08	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 05:08	1
1,1-Dichloropropane	ND		0.50		ug/L			09/21/17 05:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 05:08	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 05:08	1
Dibromomethane	ND		0.50		ug/L			09/21/17 05:08	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 05:08	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 05:08	1
1,2-Dichloroethane	0.95		0.50		ug/L			09/21/17 22:43	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 05:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 05:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 05:08	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 05:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 05:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 05:08	1
Ethylbenzene	ND		0.50		ug/L			09/21/17 05:08	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 05:08	1
2-Hexanone	ND		50		ug/L			09/21/17 05:08	1
Isopropylbenzene	ND		0.50		ug/L			09/21/17 05:08	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 05:08	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 05:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 05:08	1
Naphthalene	ND		1.0		ug/L			09/21/17 05:08	1
N-Propylbenzene	ND		1.0		ug/L			09/21/17 05:08	1
Styrene	ND		0.50		ug/L			09/21/17 05:08	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 05:08	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-15

Lab Sample ID: 720-81938-3

Date Collected: 09/13/17 11:30

Matrix: Water

Date Received: 09/14/17 15:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 05:08	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 05:08	1
Toluene	ND		0.50		ug/L			09/21/17 05:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 05:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 05:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 05:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 05:08	1
Trichloroethene	ND		0.50		ug/L			09/21/17 05:08	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 05:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 05:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 05:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/21/17 05:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/21/17 05:08	1
Vinyl acetate	ND		10		ug/L			09/21/17 05:08	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 05:08	1
Xylenes, Total	ND		1.0		ug/L			09/21/17 05:08	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 05:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/21/17 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		09/21/17 05:08	1
4-Bromofluorobenzene	92		67 - 130		09/21/17 22:43	1
1,2-Dichloroethane-d4 (Surr)	111		72 - 130		09/21/17 05:08	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130		09/21/17 22:43	1
Toluene-d8 (Surr)	97		70 - 130		09/21/17 05:08	1
Toluene-d8 (Surr)	97		70 - 130		09/21/17 22:43	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/14/17 23:20	1
Nitrate as NO3	31		10		mg/L			09/14/17 23:37	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	54		1.0		mg/L		09/19/17 13:03	09/19/17 22:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	54		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	0.35	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:04	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-16

Date Collected: 09/13/17 12:55

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-4

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.5		0.50		ug/L			09/21/17 05:37	1
Acetone	ND		50		ug/L			09/21/17 05:37	1
Benzene	2.4		0.50		ug/L			09/21/17 05:37	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 05:37	1
Bromobenzene	ND		1.0		ug/L			09/21/17 05:37	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 05:37	1
Bromoform	ND		1.0		ug/L			09/21/17 05:37	1
Bromomethane	ND		1.0		ug/L			09/21/17 05:37	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 05:37	1
n-Butylbenzene	ND		1.0		ug/L			09/21/17 05:37	1
sec-Butylbenzene	ND		1.0		ug/L			09/21/17 05:37	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 05:37	1
Carbon disulfide	ND *		5.0		ug/L			09/21/17 05:37	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 05:37	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 05:37	1
Chloroethane	ND		1.0		ug/L			09/21/17 05:37	1
Chloroform	ND		1.0		ug/L			09/21/17 05:37	1
Chloromethane	ND		1.0		ug/L			09/21/17 05:37	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 05:37	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 05:37	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 05:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 05:37	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 05:37	1
1,1-Dichloropropene	ND		0.50		ug/L			09/21/17 05:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 05:37	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 05:37	1
Dibromomethane	ND		0.50		ug/L			09/21/17 05:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 05:37	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 05:37	1
1,2-Dichloroethane	1.2		0.50		ug/L			09/21/17 05:37	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 05:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 05:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 05:37	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 05:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 05:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 05:37	1
Ethylbenzene	ND		0.50		ug/L			09/21/17 05:37	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 05:37	1
2-Hexanone	ND		50		ug/L			09/21/17 05:37	1
Isopropylbenzene	ND		0.50		ug/L			09/21/17 05:37	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 05:37	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 05:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 05:37	1
Naphthalene	ND		1.0		ug/L			09/21/17 05:37	1
N-Propylbenzene	ND		1.0		ug/L			09/21/17 05:37	1
Styrene	ND		0.50		ug/L			09/21/17 05:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 05:37	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-16

Lab Sample ID: 720-81938-4

Date Collected: 09/13/17 12:55

Matrix: Water

Date Received: 09/14/17 15:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 05:37	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 05:37	1
Toluene	1.6		0.50		ug/L			09/21/17 05:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 05:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 05:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 05:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 05:37	1
Trichloroethene	ND		0.50		ug/L			09/21/17 05:37	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 05:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 05:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 05:37	1
1,2,4-Trimethylbenzene	1.1		0.50		ug/L			09/21/17 05:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/21/17 05:37	1
Vinyl acetate	ND		10		ug/L			09/21/17 05:37	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 05:37	1
Xylenes, Total	3.7		1.0		ug/L			09/21/17 05:37	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 05:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/21/17 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		67 - 130		09/21/17 05:37	1
1,2-Dichloroethane-d4 (Surr)	129		72 - 130		09/21/17 05:37	1
Toluene-d8 (Surr)	99		70 - 130		09/21/17 05:37	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.9		1.0		mg/L			09/14/17 23:55	1
Nitrate as NO3	100		10		mg/L			09/15/17 00:12	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		09/19/17 13:03	09/19/17 22:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	ND	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:07	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-13
Date Collected: 09/13/17 15:40
Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	2.4		0.50		ug/L			09/21/17 06:05	1
Acetone	ND		50		ug/L			09/21/17 06:05	1
Benzene	ND		0.50		ug/L			09/21/17 06:05	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 06:05	1
Bromobenzene	ND		1.0		ug/L			09/21/17 06:05	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 06:05	1
Bromoform	ND		1.0		ug/L			09/21/17 06:05	1
Bromomethane	ND		1.0		ug/L			09/21/17 06:05	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 06:05	1
n-Butylbenzene	ND		1.0		ug/L			09/21/17 06:05	1
sec-Butylbenzene	ND		1.0		ug/L			09/21/17 06:05	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 06:05	1
Carbon disulfide	ND *		5.0		ug/L			09/21/17 06:05	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 06:05	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 06:05	1
Chloroethane	ND		1.0		ug/L			09/21/17 06:05	1
Chloroform	ND		1.0		ug/L			09/21/17 06:05	1
Chloromethane	ND		1.0		ug/L			09/21/17 06:05	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 06:05	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 06:05	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 06:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:05	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 06:05	1
1,1-Dichloropropane	ND		0.50		ug/L			09/21/17 06:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 06:05	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 06:05	1
Dibromomethane	ND		0.50		ug/L			09/21/17 06:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 06:05	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 06:05	1
1,2-Dichloroethane	1.4		0.50		ug/L			09/21/17 06:05	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 06:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 06:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 06:05	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 06:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 06:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 06:05	1
Ethylbenzene	ND		0.50		ug/L			09/21/17 06:05	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 06:05	1
2-Hexanone	ND		50		ug/L			09/21/17 06:05	1
Isopropylbenzene	ND		0.50		ug/L			09/21/17 06:05	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 06:05	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 06:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 06:05	1
Naphthalene	ND		1.0		ug/L			09/21/17 06:05	1
N-Propylbenzene	ND		1.0		ug/L			09/21/17 06:05	1
Styrene	ND		0.50		ug/L			09/21/17 06:05	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 06:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-13

Lab Sample ID: 720-81938-5

Date Collected: 09/13/17 15:40

Matrix: Water

Date Received: 09/14/17 15:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 06:05	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 06:05	1
Toluene	ND		0.50		ug/L			09/21/17 06:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 06:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 06:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 06:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 06:05	1
Trichloroethene	ND		0.50		ug/L			09/21/17 06:05	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 06:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 06:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 06:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/21/17 06:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/21/17 06:05	1
Vinyl acetate	ND		10		ug/L			09/21/17 06:05	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 06:05	1
Xylenes, Total	ND		1.0		ug/L			09/21/17 06:05	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 06:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/21/17 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130		09/21/17 06:05	1
1,2-Dichloroethane-d4 (Surr)	126		72 - 130		09/21/17 06:05	1
Toluene-d8 (Surr)	99		70 - 130		09/21/17 06:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 00:29	1
Nitrate as NO3	190		10		mg/L			09/15/17 00:46	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.4		1.0		mg/L		09/19/17 13:03	09/19/17 23:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.4		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	ND	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:10	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-6R

Date Collected: 09/13/17 14:00

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 01:38	1
Nitrate as NO3	330	H	100		mg/L			09/18/17 16:34	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		09/19/17 13:03	09/19/17 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2.5		0.20		mg/L		09/20/17 10:33	09/20/17 14:13	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-8
Date Collected: 09/13/17 14:25
Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/21/17 06:33	1
Acetone	ND		50		ug/L			09/21/17 06:33	1
Benzene	9.8		0.50		ug/L			09/21/17 06:33	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 06:33	1
Bromobenzene	ND		1.0		ug/L			09/21/17 06:33	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 06:33	1
Bromoform	ND		1.0		ug/L			09/21/17 06:33	1
Bromomethane	ND		1.0		ug/L			09/21/17 06:33	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 06:33	1
n-Butylbenzene	1.8		1.0		ug/L			09/21/17 06:33	1
sec-Butylbenzene	3.7		1.0		ug/L			09/21/17 06:33	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 06:33	1
Carbon disulfide	ND *		5.0		ug/L			09/21/17 06:33	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 06:33	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 06:33	1
Chloroethane	ND		1.0		ug/L			09/21/17 06:33	1
Chloroform	ND		1.0		ug/L			09/21/17 06:33	1
Chloromethane	ND		1.0		ug/L			09/21/17 06:33	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 06:33	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 06:33	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 06:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 06:33	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 06:33	1
1,1-Dichloropropene	ND		0.50		ug/L			09/21/17 06:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 06:33	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 06:33	1
Dibromomethane	ND		0.50		ug/L			09/21/17 06:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 06:33	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 06:33	1
1,2-Dichloroethane	ND		0.50		ug/L			09/21/17 06:33	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 06:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 06:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 06:33	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 06:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 06:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 06:33	1
Ethylbenzene	2.9		0.50		ug/L			09/21/17 06:33	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 06:33	1
2-Hexanone	ND		50		ug/L			09/21/17 06:33	1
Isopropylbenzene	20		0.50		ug/L			09/21/17 06:33	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 06:33	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 06:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 06:33	1
Naphthalene	54		1.0		ug/L			09/21/17 06:33	1
N-Propylbenzene	20		1.0		ug/L			09/21/17 06:33	1
Styrene	ND		0.50		ug/L			09/21/17 06:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 06:33	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-8

Lab Sample ID: 720-81938-7

Date Collected: 09/13/17 14:25

Matrix: Water

Date Received: 09/14/17 15:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 06:33	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 06:33	1
Toluene	11		0.50		ug/L			09/21/17 06:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 06:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 06:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 06:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 06:33	1
Trichloroethene	ND		0.50		ug/L			09/21/17 06:33	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 06:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 06:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 06:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/21/17 06:33	1
1,3,5-Trimethylbenzene	1.3		0.50		ug/L			09/21/17 06:33	1
Vinyl acetate	17		10		ug/L			09/21/17 06:33	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 06:33	1
Xylenes, Total	23		1.0		ug/L			09/21/17 06:33	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 06:33	1
Gasoline Range Organics (GRO)	1900		50		ug/L			09/21/17 06:33	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		67 - 130		09/21/17 06:33	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130		09/21/17 06:33	1
Toluene-d8 (Surr)	100		70 - 130		09/21/17 06:33	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 02:12	1
Nitrate as NO3	3.6		1.0		mg/L			09/15/17 02:12	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14		1.0		mg/L		09/19/17 13:03	09/19/17 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	10		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	3.9	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:16	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-14
Date Collected: 09/13/17 16:00
Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-8
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 02:46	1
Nitrate as NO3	ND		1.0		mg/L			09/15/17 02:46	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.4		1.0		mg/L		09/19/17 13:03	09/19/17 23:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	4.7		0.10		mg/L			09/20/17 13:44	1
Ferrous Iron	3.7	HF	0.10		mg/L			09/15/17 12:22	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:19	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-230529/4

Matrix: Water

Analysis Batch: 230529

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/20/17 21:05	1
Acetone	ND		50		ug/L			09/20/17 21:05	1
Benzene	ND		0.50		ug/L			09/20/17 21:05	1
Dichlorobromomethane	ND		0.50		ug/L			09/20/17 21:05	1
Bromobenzene	ND		1.0		ug/L			09/20/17 21:05	1
Chlorobromomethane	ND		1.0		ug/L			09/20/17 21:05	1
Bromoform	ND		1.0		ug/L			09/20/17 21:05	1
Bromomethane	ND		1.0		ug/L			09/20/17 21:05	1
2-Butanone (MEK)	ND		50		ug/L			09/20/17 21:05	1
n-Butylbenzene	ND		1.0		ug/L			09/20/17 21:05	1
sec-Butylbenzene	ND		1.0		ug/L			09/20/17 21:05	1
tert-Butylbenzene	ND		1.0		ug/L			09/20/17 21:05	1
Carbon disulfide	ND		5.0		ug/L			09/20/17 21:05	1
Carbon tetrachloride	ND		0.50		ug/L			09/20/17 21:05	1
Chlorobenzene	ND		0.50		ug/L			09/20/17 21:05	1
Chloroethane	ND		1.0		ug/L			09/20/17 21:05	1
Chloroform	ND		1.0		ug/L			09/20/17 21:05	1
Chloromethane	ND		1.0		ug/L			09/20/17 21:05	1
2-Chlorotoluene	ND		0.50		ug/L			09/20/17 21:05	1
4-Chlorotoluene	ND		0.50		ug/L			09/20/17 21:05	1
Chlorodibromomethane	ND		0.50		ug/L			09/20/17 21:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/20/17 21:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/20/17 21:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/20/17 21:05	1
1,3-Dichloropropane	ND		1.0		ug/L			09/20/17 21:05	1
1,1-Dichloropropene	ND		0.50		ug/L			09/20/17 21:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/20/17 21:05	1
Ethylene Dibromide	ND		0.50		ug/L			09/20/17 21:05	1
Dibromomethane	ND		0.50		ug/L			09/20/17 21:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/20/17 21:05	1
1,1-Dichloroethane	ND		0.50		ug/L			09/20/17 21:05	1
1,2-Dichloroethane	ND		0.50		ug/L			09/20/17 21:05	1
1,1-Dichloroethene	ND		0.50		ug/L			09/20/17 21:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/20/17 21:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/20/17 21:05	1
1,2-Dichloropropane	ND		0.50		ug/L			09/20/17 21:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/20/17 21:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/20/17 21:05	1
Ethylbenzene	ND		0.50		ug/L			09/20/17 21:05	1
Hexachlorobutadiene	ND		1.0		ug/L			09/20/17 21:05	1
2-Hexanone	ND		50		ug/L			09/20/17 21:05	1
Isopropylbenzene	ND		0.50		ug/L			09/20/17 21:05	1
4-Isopropyltoluene	ND		1.0		ug/L			09/20/17 21:05	1
Methylene Chloride	ND		5.0		ug/L			09/20/17 21:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/20/17 21:05	1
Naphthalene	ND		1.0		ug/L			09/20/17 21:05	1
N-Propylbenzene	ND		1.0		ug/L			09/20/17 21:05	1
Styrene	ND		0.50		ug/L			09/20/17 21:05	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-230529/4
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/20/17 21:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/20/17 21:05	1
Tetrachloroethene	ND		0.50		ug/L			09/20/17 21:05	1
Toluene	ND		0.50		ug/L			09/20/17 21:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/20/17 21:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/20/17 21:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/20/17 21:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/20/17 21:05	1
Trichloroethene	ND		0.50		ug/L			09/20/17 21:05	1
Trichlorofluoromethane	ND		1.0		ug/L			09/20/17 21:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/20/17 21:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/20/17 21:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/20/17 21:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/20/17 21:05	1
Vinyl acetate	ND		10		ug/L			09/20/17 21:05	1
Vinyl chloride	ND		0.50		ug/L			09/20/17 21:05	1
Xylenes, Total	ND		1.0		ug/L			09/20/17 21:05	1
2,2-Dichloropropane	ND		0.50		ug/L			09/20/17 21:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/20/17 21:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130		09/20/17 21:05	1
1,2-Dichloroethane-d4 (Surr)	111		72 - 130		09/20/17 21:05	1
Toluene-d8 (Surr)	99		70 - 130		09/20/17 21:05	1

Lab Sample ID: LCS 720-230529/5
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	27.3		ug/L		109	62 - 130
Acetone	125	116		ug/L		93	26 - 180
Benzene	25.0	26.7		ug/L		107	79 - 130
Dichlorobromomethane	25.0	27.3		ug/L		109	70 - 130
Bromobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Bromoform	25.0	23.1		ug/L		92	68 - 136
Bromomethane	25.0	23.2		ug/L		93	43 - 151
2-Butanone (MEK)	125	112		ug/L		90	54 - 153
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 142
sec-Butylbenzene	25.0	27.0		ug/L		108	70 - 134
tert-Butylbenzene	25.0	27.1		ug/L		108	70 - 135
Carbon disulfide	25.0	37.3	*	ug/L		149	68 - 146
Carbon tetrachloride	25.0	28.5		ug/L		114	70 - 146
Chlorobenzene	25.0	26.3		ug/L		105	70 - 130
Chloroethane	25.0	24.0		ug/L		96	62 - 138
Chloroform	25.0	27.6		ug/L		110	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230529/5

Matrix: Water

Analysis Batch: 230529

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	21.1		ug/L		85	52 - 175
2-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130
4-Chlorotoluene	25.0	27.6		ug/L		111	70 - 130
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	29.1		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 136
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	17.2		ug/L		69	32 - 158
1,1-Dichloroethane	25.0	28.0		ug/L		112	70 - 130
1,2-Dichloroethane	25.0	27.6		ug/L		111	61 - 132
1,1-Dichloroethene	25.0	29.9		ug/L		119	64 - 128
cis-1,2-Dichloroethene	25.0	27.8		ug/L		111	70 - 130
trans-1,2-Dichloroethene	25.0	29.0		ug/L		116	68 - 130
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 140
Ethylbenzene	25.0	26.3		ug/L		105	80 - 120
Hexachlorobutadiene	25.0	23.7		ug/L		95	70 - 130
2-Hexanone	125	114		ug/L		91	60 - 164
Isopropylbenzene	25.0	27.2		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
Methylene Chloride	25.0	28.3		ug/L		113	70 - 147
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	50 - 155
Naphthalene	25.0	23.8		ug/L		95	50 - 130
N-Propylbenzene	25.0	27.7		ug/L		111	70 - 130
Styrene	25.0	27.2		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130
Tetrachloroethene	25.0	25.6		ug/L		103	70 - 130
Toluene	25.0	26.7		ug/L		107	78 - 120
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	30.0		ug/L		120	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
Trichloroethene	25.0	26.6		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	25.2		ug/L		101	66 - 132
1,2,3-Trichloropropane	25.0	26.0		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.7		ug/L		127	42 - 162
1,2,4-Trimethylbenzene	25.0	27.3		ug/L		109	70 - 132
1,3,5-Trimethylbenzene	25.0	27.1		ug/L		108	70 - 130
Vinyl acetate	25.0	23.7		ug/L		95	43 - 163
Vinyl chloride	25.0	23.7		ug/L		95	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230529/5
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	26.9		ug/L		108	70 - 142
o-Xylene	25.0	27.1		ug/L		108	70 - 130
2,2-Dichloropropane	25.0	30.4		ug/L		121	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-230529/7
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	536		ug/L		107	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-230529/6
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	27.7		ug/L		111	62 - 130	1	20
Acetone	125	117		ug/L		94	26 - 180	1	30
Benzene	25.0	26.5		ug/L		106	79 - 130	1	20
Dichlorobromomethane	25.0	27.9		ug/L		112	70 - 130	2	20
Bromobenzene	25.0	25.9		ug/L		103	70 - 130	1	20
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130	0	20
Bromoform	25.0	22.9		ug/L		92	68 - 136	1	20
Bromomethane	25.0	22.3		ug/L		89	43 - 151	4	20
2-Butanone (MEK)	125	114		ug/L		91	54 - 153	1	20
n-Butylbenzene	25.0	26.6		ug/L		106	70 - 142	2	20
sec-Butylbenzene	25.0	26.6		ug/L		106	70 - 134	2	20
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 135	1	20
Carbon disulfide	25.0	36.4		ug/L		146	68 - 146	2	20
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 146	2	20
Chlorobenzene	25.0	25.9		ug/L		103	70 - 130	2	20
Chloroethane	25.0	23.3		ug/L		93	62 - 138	3	20
Chloroform	25.0	27.4		ug/L		110	70 - 130	1	20
Chloromethane	25.0	19.9		ug/L		80	52 - 175	6	20
2-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130	1	20
4-Chlorotoluene	25.0	27.5		ug/L		110	70 - 130	1	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 145	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230529/6

Matrix: Water

Analysis Batch: 230529

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130	0	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	0	20
1,1-Dichloropropene	25.0	28.8		ug/L		115	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136	1	20
Ethylene Dibromide	25.0	26.2		ug/L		105	70 - 130	1	20
Dibromomethane	25.0	26.4		ug/L		106	70 - 130	0	20
Dichlorodifluoromethane	25.0	14.5		ug/L		58	32 - 158	17	20
1,1-Dichloroethane	25.0	27.9		ug/L		111	70 - 130	0	20
1,2-Dichloroethane	25.0	27.5		ug/L		110	61 - 132	0	20
1,1-Dichloroethene	25.0	29.2		ug/L		117	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	28.6		ug/L		114	68 - 130	1	20
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 140	1	20
Ethylbenzene	25.0	25.9		ug/L		104	80 - 120	2	20
Hexachlorobutadiene	25.0	23.1		ug/L		92	70 - 130	3	20
2-Hexanone	125	116		ug/L		93	60 - 164	2	20
Isopropylbenzene	25.0	26.6		ug/L		106	70 - 130	2	20
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130	2	20
Methylene Chloride	25.0	28.1		ug/L		112	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	50 - 155	2	20
Naphthalene	25.0	24.2		ug/L		97	50 - 130	2	20
N-Propylbenzene	25.0	27.3		ug/L		109	70 - 130	1	20
Styrene	25.0	26.7		ug/L		107	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130	1	20
Tetrachloroethene	25.0	25.2		ug/L		101	70 - 130	2	20
Toluene	25.0	26.2		ug/L		105	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,1,1-Trichloroethane	25.0	29.2		ug/L		117	70 - 130	3	20
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130	0	20
Trichloroethene	25.0	26.3		ug/L		105	70 - 130	1	20
Trichlorofluoromethane	25.0	24.1		ug/L		96	66 - 132	4	20
1,2,3-Trichloropropane	25.0	26.0		ug/L		104	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.8		ug/L		123	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130	1	20
Vinyl acetate	25.0	22.7		ug/L		91	43 - 163	4	20
Vinyl chloride	25.0	22.1		ug/L		88	54 - 135	7	20
m-Xylene & p-Xylene	25.0	26.3		ug/L		105	70 - 142	2	20
o-Xylene	25.0	26.6		ug/L		106	70 - 130	2	20
2,2-Dichloropropane	25.0	28.0		ug/L		112	70 - 140	8	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230529/6
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-230529/8
Matrix: Water
Analysis Batch: 230529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C5-C12	500	519		ug/L		104	71 - 125	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	108		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MB 720-230613/9
Matrix: Water
Analysis Batch: 230613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			09/21/17 21:46	1
Acetone	ND		50		ug/L			09/21/17 21:46	1
Benzene	ND		0.50		ug/L			09/21/17 21:46	1
Dichlorobromomethane	ND		0.50		ug/L			09/21/17 21:46	1
Bromobenzene	ND		1.0		ug/L			09/21/17 21:46	1
Chlorobromomethane	ND		1.0		ug/L			09/21/17 21:46	1
Bromoform	ND		1.0		ug/L			09/21/17 21:46	1
Bromomethane	ND		1.0		ug/L			09/21/17 21:46	1
2-Butanone (MEK)	ND		50		ug/L			09/21/17 21:46	1
n-Butylbenzene	ND		1.0		ug/L			09/21/17 21:46	1
sec-Butylbenzene	ND		1.0		ug/L			09/21/17 21:46	1
tert-Butylbenzene	ND		1.0		ug/L			09/21/17 21:46	1
Carbon disulfide	ND		5.0		ug/L			09/21/17 21:46	1
Carbon tetrachloride	ND		0.50		ug/L			09/21/17 21:46	1
Chlorobenzene	ND		0.50		ug/L			09/21/17 21:46	1
Chloroethane	ND		1.0		ug/L			09/21/17 21:46	1
Chloroform	ND		1.0		ug/L			09/21/17 21:46	1
Chloromethane	ND		1.0		ug/L			09/21/17 21:46	1
2-Chlorotoluene	ND		0.50		ug/L			09/21/17 21:46	1
4-Chlorotoluene	ND		0.50		ug/L			09/21/17 21:46	1
Chlorodibromomethane	ND		0.50		ug/L			09/21/17 21:46	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/21/17 21:46	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/21/17 21:46	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/21/17 21:46	1
1,3-Dichloropropane	ND		1.0		ug/L			09/21/17 21:46	1
1,1-Dichloropropene	ND		0.50		ug/L			09/21/17 21:46	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-230613/9
Matrix: Water
Analysis Batch: 230613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/21/17 21:46	1
Ethylene Dibromide	ND		0.50		ug/L			09/21/17 21:46	1
Dibromomethane	ND		0.50		ug/L			09/21/17 21:46	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/21/17 21:46	1
1,1-Dichloroethane	ND		0.50		ug/L			09/21/17 21:46	1
1,2-Dichloroethane	ND		0.50		ug/L			09/21/17 21:46	1
1,1-Dichloroethene	ND		0.50		ug/L			09/21/17 21:46	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 21:46	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/21/17 21:46	1
1,2-Dichloropropane	ND		0.50		ug/L			09/21/17 21:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 21:46	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/21/17 21:46	1
Ethylbenzene	ND		0.50		ug/L			09/21/17 21:46	1
Hexachlorobutadiene	ND		1.0		ug/L			09/21/17 21:46	1
2-Hexanone	ND		50		ug/L			09/21/17 21:46	1
Isopropylbenzene	ND		0.50		ug/L			09/21/17 21:46	1
4-Isopropyltoluene	ND		1.0		ug/L			09/21/17 21:46	1
Methylene Chloride	ND		5.0		ug/L			09/21/17 21:46	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/21/17 21:46	1
Naphthalene	ND		1.0		ug/L			09/21/17 21:46	1
N-Propylbenzene	ND		1.0		ug/L			09/21/17 21:46	1
Styrene	ND		0.50		ug/L			09/21/17 21:46	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 21:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/21/17 21:46	1
Tetrachloroethene	ND		0.50		ug/L			09/21/17 21:46	1
Toluene	ND		0.50		ug/L			09/21/17 21:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/21/17 21:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/21/17 21:46	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/21/17 21:46	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/21/17 21:46	1
Trichloroethene	ND		0.50		ug/L			09/21/17 21:46	1
Trichlorofluoromethane	ND		1.0		ug/L			09/21/17 21:46	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/21/17 21:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/21/17 21:46	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/21/17 21:46	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/21/17 21:46	1
Vinyl acetate	ND		10		ug/L			09/21/17 21:46	1
Vinyl chloride	ND		0.50		ug/L			09/21/17 21:46	1
Xylenes, Total	ND		1.0		ug/L			09/21/17 21:46	1
2,2-Dichloropropane	ND		0.50		ug/L			09/21/17 21:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/21/17 21:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		09/21/17 21:46	1
1,2-Dichloroethane-d4 (Surr)	98		72 - 130		09/21/17 21:46	1
Toluene-d8 (Surr)	98		70 - 130		09/21/17 21:46	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230613/5

Matrix: Water

Analysis Batch: 230613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.8		ug/L		99	62 - 130
Benzene	25.0	24.3		ug/L		97	79 - 130
1,2-Dichloroethane	25.0	24.6		ug/L		98	61 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-230613/7

Matrix: Water

Analysis Batch: 230613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	510		ug/L		102	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-230613/6

Matrix: Water

Analysis Batch: 230613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.7		ug/L		103	62 - 130	4	20
Benzene	25.0	24.4		ug/L		98	79 - 130	1	20
1,2-Dichloroethane	25.0	25.1		ug/L		100	61 - 132	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-230613/8

Matrix: Water

Analysis Batch: 230613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	509		ug/L		102	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230613/8
Matrix: Water
Analysis Batch: 230613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	<i>LCSD</i> %Recovery	<i>LCSD</i> Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 720-230660/4
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/22/17 09:53	1
Acetone	ND		50		ug/L			09/22/17 09:53	1
Benzene	ND		0.50		ug/L			09/22/17 09:53	1
Dichlorobromomethane	ND		0.50		ug/L			09/22/17 09:53	1
Bromobenzene	ND		1.0		ug/L			09/22/17 09:53	1
Chlorobromomethane	ND		1.0		ug/L			09/22/17 09:53	1
Bromoform	ND		1.0		ug/L			09/22/17 09:53	1
Bromomethane	ND		1.0		ug/L			09/22/17 09:53	1
2-Butanone (MEK)	ND		50		ug/L			09/22/17 09:53	1
n-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
sec-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
tert-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
Carbon disulfide	ND		5.0		ug/L			09/22/17 09:53	1
Carbon tetrachloride	ND		0.50		ug/L			09/22/17 09:53	1
Chlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
Chloroethane	ND		1.0		ug/L			09/22/17 09:53	1
Chloroform	ND		1.0		ug/L			09/22/17 09:53	1
Chloromethane	ND		1.0		ug/L			09/22/17 09:53	1
2-Chlorotoluene	ND		0.50		ug/L			09/22/17 09:53	1
4-Chlorotoluene	ND		0.50		ug/L			09/22/17 09:53	1
Chlorodibromomethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3-Dichloropropane	ND		1.0		ug/L			09/22/17 09:53	1
1,1-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/22/17 09:53	1
Ethylene Dibromide	ND		0.50		ug/L			09/22/17 09:53	1
Dibromomethane	ND		0.50		ug/L			09/22/17 09:53	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1-Dichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
Ethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
Hexachlorobutadiene	ND		1.0		ug/L			09/22/17 09:53	1
2-Hexanone	ND		50		ug/L			09/22/17 09:53	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-230660/4
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
4-Isopropyltoluene	ND		1.0		ug/L			09/22/17 09:53	1
Methylene Chloride	ND		5.0		ug/L			09/22/17 09:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/22/17 09:53	1
Naphthalene	ND		1.0		ug/L			09/22/17 09:53	1
N-Propylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
Styrene	ND		0.50		ug/L			09/22/17 09:53	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 09:53	1
Tetrachloroethene	ND		0.50		ug/L			09/22/17 09:53	1
Toluene	ND		0.50		ug/L			09/22/17 09:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/22/17 09:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/22/17 09:53	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
Trichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
Trichlorofluoromethane	ND		1.0		ug/L			09/22/17 09:53	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
Vinyl acetate	ND		10		ug/L			09/22/17 09:53	1
Vinyl chloride	ND		0.50		ug/L			09/22/17 09:53	1
Xylenes, Total	ND		1.0		ug/L			09/22/17 09:53	1
2,2-Dichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/22/17 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		09/22/17 09:53	1
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		09/22/17 09:53	1
Toluene-d8 (Surr)	99		70 - 130		09/22/17 09:53	1

Lab Sample ID: LCS 720-230660/5
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.2		ug/L		105	62 - 130
Acetone	125	120		ug/L		96	26 - 180
Benzene	25.0	23.6		ug/L		94	79 - 130
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	24.4		ug/L		98	68 - 136
Bromomethane	25.0	24.0		ug/L		96	43 - 151
2-Butanone (MEK)	125	131		ug/L		104	54 - 153
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 142

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230660/5

Matrix: Water

Analysis Batch: 230660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 134
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135
Carbon disulfide	25.0	31.6		ug/L		126	68 - 146
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 146
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chloroethane	25.0	23.0		ug/L		92	62 - 138
Chloroform	25.0	25.9		ug/L		103	70 - 130
Chloromethane	25.0	21.4		ug/L		86	52 - 175
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
4-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	25.1		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	32 - 158
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	61 - 132
1,1-Dichloroethene	25.0	26.3		ug/L		105	64 - 128
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	68 - 130
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 140
Ethylbenzene	25.0	24.3		ug/L		97	80 - 120
Hexachlorobutadiene	25.0	21.7		ug/L		87	70 - 130
2-Hexanone	125	132		ug/L		106	60 - 164
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130
Methylene Chloride	25.0	25.5		ug/L		102	70 - 147
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	50 - 155
Naphthalene	25.0	23.0		ug/L		92	50 - 130
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130
Tetrachloroethene	25.0	24.0		ug/L		96	70 - 130
Toluene	25.0	24.1		ug/L		96	78 - 120
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		93	70 - 130
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	26.4		ug/L		105	66 - 132

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230660/5
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	42 - 162
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 132
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130
Vinyl acetate	25.0	25.7		ug/L		103	43 - 163
Vinyl chloride	25.0	27.3		ug/L		109	54 - 135
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 142
o-Xylene	25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCS 720-230660/7
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	511		ug/L		102	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-230660/6
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.5		ug/L		106	62 - 130	1	20
Acetone	125	111		ug/L		89	26 - 180	8	30
Benzene	25.0	23.8		ug/L		95	79 - 130	1	20
Dichlorobromomethane	25.0	27.3		ug/L		109	70 - 130	5	20
Bromobenzene	25.0	23.3		ug/L		93	70 - 130	1	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	1	20
Bromoform	25.0	24.1		ug/L		96	68 - 136	1	20
Bromomethane	25.0	24.9		ug/L		99	43 - 151	3	20
2-Butanone (MEK)	125	121		ug/L		97	54 - 153	8	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 142	2	20
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 134	2	20
tert-Butylbenzene	25.0	23.5		ug/L		94	70 - 135	1	20
Carbon disulfide	25.0	31.3		ug/L		125	68 - 146	1	20
Carbon tetrachloride	25.0	26.6		ug/L		106	70 - 146	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230660/6

Matrix: Water

Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	1	20
Chloroethane	25.0	23.8		ug/L		95	62 - 138	3	20
Chloroform	25.0	26.2		ug/L		105	70 - 130	1	20
Chloromethane	25.0	22.2		ug/L		89	52 - 175	4	20
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	0	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	0	20
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145	3	20
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 136	7	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	1	20
Dibromomethane	25.0	26.3		ug/L		105	70 - 130	1	20
Dichlorodifluoromethane	25.0	23.1		ug/L		93	32 - 158	2	20
1,1-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	25.0	26.8		ug/L		107	61 - 132	0	20
1,1-Dichloroethene	25.0	26.4		ug/L		106	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	68 - 130	1	20
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 140	2	20
Ethylbenzene	25.0	24.2		ug/L		97	80 - 120	0	20
Hexachlorobutadiene	25.0	21.2		ug/L		85	70 - 130	2	20
2-Hexanone	125	126		ug/L		101	60 - 164	5	20
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	26.2		ug/L		105	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	50 - 155	2	20
Naphthalene	25.0	22.6		ug/L		90	50 - 130	2	20
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20
Styrene	25.0	25.7		ug/L		103	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130	5	20
Tetrachloroethene	25.0	24.1		ug/L		96	70 - 130	0	20
Toluene	25.0	24.1		ug/L		96	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	66 - 132	3	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		95	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.4		ug/L		114	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 132	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230660/6
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	0	20
Vinyl acetate	25.0	25.6		ug/L		102	43 - 163	0	20
Vinyl chloride	25.0	26.7		ug/L		107	54 - 135	2	20
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 142	1	20
o-Xylene	25.0	25.4		ug/L		102	70 - 130	1	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 140	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-230660/8
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	510		ug/L		102	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-230155/4
Matrix: Water
Analysis Batch: 230155

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/14/17 19:04	1
Nitrate as NO3	ND		1.0		mg/L			09/14/17 19:04	1

Lab Sample ID: LCS 720-230155/5
Matrix: Water
Analysis Batch: 230155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.8		mg/L		108	90 - 110
Nitrate as NO3	10.0	10.4		mg/L		104	90 - 110

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 720-230318/4
Matrix: Water
Analysis Batch: 230318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/18/17 15:55	1
Nitrate as NO3	ND		1.0		mg/L			09/18/17 15:55	1

Lab Sample ID: LCS 720-230318/5
Matrix: Water
Analysis Batch: 230318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.5		mg/L		105	90 - 110
Nitrate as NO3	10.0	10.4		mg/L		104	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-230388/1-A
Matrix: Water
Analysis Batch: 230471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		09/19/17 13:03	09/19/17 22:10	1

Lab Sample ID: LCS 720-230388/2-A
Matrix: Water
Analysis Batch: 230471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.67		mg/L		97	85 - 115

Lab Sample ID: 720-81938-1 MS
Matrix: Water
Analysis Batch: 230471

Client Sample ID: MW-10
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	17		10.0	25.6		mg/L		89	70 - 130

Lab Sample ID: 720-81938-1 MSD
Matrix: Water
Analysis Batch: 230471

Client Sample ID: MW-10
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	17		10.0	24.7		mg/L		80	70 - 130	3	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-230237/10
Matrix: Water
Analysis Batch: 230237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			09/15/17 12:22	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Lab Sample ID: LCS 720-230237/11
Matrix: Water
Analysis Batch: 230237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	1.05		mg/L		105	85 - 115

Lab Sample ID: 720-81938-1 MS
Matrix: Water
Analysis Batch: 230237

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.11		mg/L		111	75 - 125

Lab Sample ID: 720-81938-1 MSD
Matrix: Water
Analysis Batch: 230237

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	ND	HF	1.00	1.12		mg/L		112	75 - 125	1	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-402060/1-A
Matrix: Water
Analysis Batch: 402276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 402060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 13:25	1

Lab Sample ID: LCS 500-402060/2-A
Matrix: Water
Analysis Batch: 402276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 402060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.45		mg/L		98	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

GC/MS VOA

Analysis Batch: 230529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-2	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-81938-3	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-81938-4	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
720-81938-5	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-81938-7	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-230529/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230529/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230529/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230529/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230529/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 230613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-2	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-81938-3	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-230613/9	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230613/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230613/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230613/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230613/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 230660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-230660/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230660/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230660/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230660/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230660/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

HPLC/IC

Analysis Batch: 230155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	300.0	
720-81938-2	MW-9	Total/NA	Water	300.0	
720-81938-2	MW-9	Total/NA	Water	300.0	
720-81938-3	MW-15	Total/NA	Water	300.0	
720-81938-3	MW-15	Total/NA	Water	300.0	
720-81938-4	MW-16	Total/NA	Water	300.0	
720-81938-4	MW-16	Total/NA	Water	300.0	
720-81938-5	MW-13	Total/NA	Water	300.0	
720-81938-5	MW-13	Total/NA	Water	300.0	
720-81938-6	MW-6R	Total/NA	Water	300.0	
720-81938-7	MW-8	Total/NA	Water	300.0	
720-81938-8	MW-14	Total/NA	Water	300.0	
MB 720-230155/4	Method Blank	Total/NA	Water	300.0	
LCS 720-230155/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 230318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-6	MW-6R	Total/NA	Water	300.0	
MB 720-230318/4	Method Blank	Total/NA	Water	300.0	
LCS 720-230318/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 230388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	200.7	
720-81938-2	MW-9	Total/NA	Water	200.7	
720-81938-3	MW-15	Total/NA	Water	200.7	
720-81938-4	MW-16	Total/NA	Water	200.7	
720-81938-5	MW-13	Total/NA	Water	200.7	
720-81938-6	MW-6R	Total/NA	Water	200.7	
720-81938-7	MW-8	Total/NA	Water	200.7	
720-81938-8	MW-14	Total/NA	Water	200.7	
MB 720-230388/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-230388/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-81938-1 MS	MW-10	Total/NA	Water	200.7	
720-81938-1 MSD	MW-10	Total/NA	Water	200.7	

Analysis Batch: 230471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-2	MW-9	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-3	MW-15	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-4	MW-16	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-5	MW-13	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-6	MW-6R	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-7	MW-8	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-8	MW-14	Total/NA	Water	200.7 Rev 4.4	230388
MB 720-230388/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	230388
LCS 720-230388/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	230388

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Metals (Continued)

Analysis Batch: 230471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1 MS	MW-10	Total/NA	Water	200.7 Rev 4.4	230388
720-81938-1 MSD	MW-10	Total/NA	Water	200.7 Rev 4.4	230388

General Chemistry

Analysis Batch: 230237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	SM 3500 Fe B	
720-81938-2	MW-9	Total/NA	Water	SM 3500 Fe B	
720-81938-3	MW-15	Total/NA	Water	SM 3500 Fe B	
720-81938-4	MW-16	Total/NA	Water	SM 3500 Fe B	
720-81938-5	MW-13	Total/NA	Water	SM 3500 Fe B	
720-81938-7	MW-8	Total/NA	Water	SM 3500 Fe B	
720-81938-8	MW-14	Total/NA	Water	SM 3500 Fe B	
MB 720-230237/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-230237/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-81938-1 MS	MW-10	Total/NA	Water	SM 3500 Fe B	
720-81938-1 MSD	MW-10	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 230498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	SM 3500	
720-81938-2	MW-9	Total/NA	Water	SM 3500	
720-81938-3	MW-15	Total/NA	Water	SM 3500	
720-81938-4	MW-16	Total/NA	Water	SM 3500	
720-81938-5	MW-13	Total/NA	Water	SM 3500	
720-81938-7	MW-8	Total/NA	Water	SM 3500	
720-81938-8	MW-14	Total/NA	Water	SM 3500	

Prep Batch: 402060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	SM 4500 NH3 B	
720-81938-2	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-81938-3	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-81938-4	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-81938-5	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-81938-6	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-81938-7	MW-8	Total/NA	Water	SM 4500 NH3 B	
720-81938-8	MW-14	Total/NA	Water	SM 4500 NH3 B	
MB 500-402060/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-402060/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 402276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-1	MW-10	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-2	MW-9	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-3	MW-15	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-4	MW-16	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-5	MW-13	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-6	MW-6R	Total/NA	Water	SM 4500 NH3 G	402060

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

General Chemistry (Continued)

Analysis Batch: 402276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81938-7	MW-8	Total/NA	Water	SM 4500 NH3 G	402060
720-81938-8	MW-14	Total/NA	Water	SM 4500 NH3 G	402060
MB 500-402060/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	402060
LCS 500-402060/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	402060

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-10

Date Collected: 09/13/17 09:50

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230660	09/22/17 13:11	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/14/17 22:12	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 22:41	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 13:52		
					(End)	09/20/17 13:55		

Client Sample ID: MW-9

Date Collected: 09/13/17 10:20

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230613	09/21/17 22:14	BAJ	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	230529	09/21/17 04:40	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/14/17 22:46	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230155	09/14/17 23:03	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 22:47	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:01		
					(End)	09/20/17 14:04		

Client Sample ID: MW-15

Date Collected: 09/13/17 11:30

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230613	09/21/17 22:43	BAJ	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	230529	09/21/17 05:08	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/14/17 23:20	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230155	09/14/17 23:37	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 22:52	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-15

Date Collected: 09/13/17 11:30

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276	(Start) 09/20/17 14:04 (End) 09/20/17 14:07	MAN	TAL CHI

Client Sample ID: MW-16

Date Collected: 09/13/17 12:55

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230529	09/21/17 05:37	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/14/17 23:55	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230155	09/15/17 00:12	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 22:57	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276	(Start) 09/20/17 14:07 (End) 09/20/17 14:10	MAN	TAL CHI

Client Sample ID: MW-13

Date Collected: 09/13/17 15:40

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230529	09/21/17 06:05	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/15/17 00:29	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230155	09/15/17 00:46	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:14	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276	(Start) 09/20/17 14:10 (End) 09/20/17 14:13	MAN	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Client Sample ID: MW-6R

Date Collected: 09/13/17 14:00

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	230155	09/15/17 01:38	ECB	TAL PLS
Total/NA	Analysis	300.0		100	230318	09/18/17 16:34	BKR	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:19	ASB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:13		
					(End)	09/20/17 14:16		

Client Sample ID: MW-8

Date Collected: 09/13/17 14:25

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	230529	09/21/17 06:33	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230155	09/15/17 02:12	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:25	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:16		
					(End)	09/20/17 14:19		

Client Sample ID: MW-14

Date Collected: 09/13/17 16:00

Date Received: 09/14/17 15:30

Lab Sample ID: 720-81938-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	230155	09/15/17 02:46	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:30	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230498	09/20/17 13:44	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230237	09/15/17 12:22	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:19		
					(End)	09/20/17 14:22		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-19
Indiana	State Program	5	C-IL-02	04-30-18
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17 *
Kentucky (UST)	State Program	4	66	04-30-18
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18
North Carolina (WW/SW)	State Program	4	291	12-31-17 *
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-18
South Carolina	State Program	4	77001	04-30-17 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-18
Wyoming	State Program	8	8TMS-Q	04-30-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81938-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-81938-1	MW-10	Water	09/13/17 09:50	09/14/17 15:30
720-81938-2	MW-9	Water	09/13/17 10:20	09/14/17 15:30
720-81938-3	MW-15	Water	09/13/17 11:30	09/14/17 15:30
720-81938-4	MW-16	Water	09/13/17 12:55	09/14/17 15:30
720-81938-5	MW-13	Water	09/13/17 15:40	09/14/17 15:30
720-81938-6	MW-6R	Water	09/13/17 14:00	09/14/17 15:30
720-81938-7	MW-8	Water	09/13/17 14:25	09/14/17 15:30
720-81938-8	MW-14	Water	09/13/17 16:00	09/14/17 15:30

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- 14

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-81938

Chain of Custody Record

178349

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact
Ninyo & Moore
1956 Webster Street, #400
Oakland/CA/94612
510-343-3000
Phone
510-343-3000
FAX
Project Name: Chun
Site 401896004
P O #

Project Manager: Peter Sims
Tel/Fax: 510.343.3000
Analysis Turnaround Time
 CALENDAR DAYS
 WORKING DAYS
TAI if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Asha Turman
Lab Contact: Paloma Quiong

Date: 9-13-17
Carrier:
COC No: 1 of 1 COCs
Sampler ALT
For Lab Use Only:
Walk-in Client
Lab Sampling
Job / SDC No

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPHg & VOCs; EPA Method 8260E	Other
MW-10	9/13/17	950	G	GW	9	N	N	+	Ferric Iron by Calc Ferrous Iron; SM 3500 Fe Iron; EPA 200.8 Nitrate, Nitrite; EPA 300 Nitrogen, Ammonia SM 4500 NH3
MW-9	9/13/17	1020	G	GW	1	N	N	+	
MW-15	9/13/17	1130	G	GW	1	N	N	+	
MW-16	9/13/17	1255	G	GW	1	N	N	+	
MW-13	9/13/17	1520	G	GW	1	N	N	+	
MW-6R	9/13/17	1400	G	GW	1	N	N	+	
MW-8	9/13/17	1425	G	GW	1	N	N	+	
MW-14	9/13/17	1600	G	GW	1	N	N	+	



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Custody Seals Intact Yes No

Relinquished by: *[Signature]* Company: Ninyo & Moore Date/Time: 9/13/17

Relinquished by: *[Signature]* Company: *[Signature]* Date/Time: 9/17/15

Received by: *[Signature]* Company: *[Signature]* Date/Time: 9/17/15

Received in Laboratory by: *[Signature]* Company: *[Signature]* Date/Time: 9/17/15

Coord: *[Signature]* Therm ID No: *[Signature]*

Form No. CA-C-WI-002, Rev. 4.10, dated 11/7/2016

5.92

TestAmerica Pleasanton

1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record



TestAmerica

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Client Information (Sub Contract Lab)		Sampler:		Lab PM: Duong, Paloma R		Carrier Tracking No(s):		COC No: 720-35458.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: paloma.duong@testamericainc.com		State of Origin: California		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484		Accreditations Required (See note): State Program - California		Job #: 720-81938-1		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Project Name: Chun		Project #: 72010606		Analysis Requested		Other:			
Site:		SSOW#:		Due Date Requested: 9/20/2017		TAT Requested (days):		PO #:	
Email:		WO #:		720-81938 COC		Field Filtered Sample (Yes or No)		Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
						Preservation Code:			
MW-10 (720-81938-1)		9/13/17		09:50 Pacific		Water		X	
MW-9 (720-81938-2)		9/13/17		10:20 Pacific		Water		X	
MW-15 (720-81938-3)		9/13/17		11:30 Pacific		Water		X	
MW-16 (720-81938-4)		9/13/17		12:55 Pacific		Water		X	
MW-13 (720-81938-5)		9/13/17		15:40 Pacific		Water		X	
MW-6R (720-81938-6)		9/13/17		14:00 Pacific		Water		X	
MW-8 (720-81938-7)		9/13/17		14:25 Pacific		Water		X	
MW-14 (720-81938-8)		9/13/17		16:00 Pacific		Water		X	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>John Hunter</i>		Date/Time: <i>9-18-17 10:00</i>		Company: <i>Coast</i>		Received by: <i>Shirley Scott</i>		Date/Time: <i>9/19/17 10:25</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Page 48 of 50		Cooler Temperature(s) °C and Other Remarks: <i>4.1 → 4.2</i>		9/25/2017	

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-81938-1

Login Number: 81938

List Number: 1

Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-81938-1

Login Number: 81938
List Number: 2
Creator: Scott, Sherri L

List Source: TestAmerica Chicago
List Creation: 09/19/17 11:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-81984-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
9/25/2017 1:15:35 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
QC Sample Results	16
QC Association Summary	24
Lab Chronicle	26
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	33

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Job ID: 720-81984-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-81984-1**

Comments

No additional comments.

Receipt

The samples were received on 9/15/2017 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

Receipt Exceptions

All 3 vials for VOC's and all 3 vials for Ferrous Fe received broken for sample MW-4R.
One of three vials for VOC's for MW-5R was received broken

GC/MS VOA

Method(s) 8260B: The Gasoline Range Organics (GRO) concentration reported for the following samples is due to the presence of discrete peaks: MW-12 (720-81984-10), MW-11R (720-81984-3), MW-5R (720-81984-4) and MW-7R (720-81984-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-12

Lab Sample ID: 720-81984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	820		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1400		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Iron	1.8		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	2.1	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 720-81984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	48		10		mg/L	10		300.0	Total/NA
Iron	12		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ammonia	2.8		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-11R

Lab Sample ID: 720-81984-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	60		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	120		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	520		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	310		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2500		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	530		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	12000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	34000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	10		1.0		mg/L	1		300.0	Total/NA
Iron	13		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	14	HF	0.50		mg/L	5		SM 3500 Fe B	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 720-81984-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5000		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	77		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	380		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	180		100		ug/L	100		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-5R (Continued)

Lab Sample ID: 720-81984-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	8600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	380		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	11000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	48000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Iron	1.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	2.8	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	1.2		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 720-81984-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	560		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Naphthalene	700		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Toluene	2300		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2000		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	480		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	16000		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	37000		25000		ug/L	500		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	11		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	49		10		mg/L	10		300.0	Total/NA
Iron	3.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	3.1		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.52	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	1.9		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-12

Date Collected: 09/14/17 12:00

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-1

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/L			09/22/17 13:49	10
Acetone	ND		500		ug/L			09/22/17 13:49	10
Benzene	820		5.0		ug/L			09/22/17 13:49	10
Dichlorobromomethane	ND		5.0		ug/L			09/22/17 13:49	10
Bromobenzene	ND		10		ug/L			09/22/17 13:49	10
Chlorobromomethane	ND		10		ug/L			09/22/17 13:49	10
Bromoform	ND		10		ug/L			09/22/17 13:49	10
Bromomethane	ND		10		ug/L			09/22/17 13:49	10
2-Butanone (MEK)	ND		500		ug/L			09/22/17 13:49	10
n-Butylbenzene	ND		10		ug/L			09/22/17 13:49	10
sec-Butylbenzene	ND		10		ug/L			09/22/17 13:49	10
tert-Butylbenzene	ND		10		ug/L			09/22/17 13:49	10
Carbon disulfide	ND		50		ug/L			09/22/17 13:49	10
Carbon tetrachloride	ND		5.0		ug/L			09/22/17 13:49	10
Chlorobenzene	ND		5.0		ug/L			09/22/17 13:49	10
Chloroethane	ND		10		ug/L			09/22/17 13:49	10
Chloroform	ND		10		ug/L			09/22/17 13:49	10
Chloromethane	ND		10		ug/L			09/22/17 13:49	10
2-Chlorotoluene	ND		5.0		ug/L			09/22/17 13:49	10
4-Chlorotoluene	ND		5.0		ug/L			09/22/17 13:49	10
Chlorodibromomethane	ND		5.0		ug/L			09/22/17 13:49	10
1,2-Dichlorobenzene	ND		5.0		ug/L			09/22/17 13:49	10
1,3-Dichlorobenzene	ND		5.0		ug/L			09/22/17 13:49	10
1,4-Dichlorobenzene	ND		5.0		ug/L			09/22/17 13:49	10
1,3-Dichloropropane	ND		10		ug/L			09/22/17 13:49	10
1,1-Dichloropropene	ND		5.0		ug/L			09/22/17 13:49	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/22/17 13:49	10
Ethylene Dibromide	ND		5.0		ug/L			09/22/17 13:49	10
Dibromomethane	ND		5.0		ug/L			09/22/17 13:49	10
Dichlorodifluoromethane	ND		5.0		ug/L			09/22/17 13:49	10
1,1-Dichloroethane	ND		5.0		ug/L			09/22/17 13:49	10
1,2-Dichloroethane	ND		5.0		ug/L			09/22/17 13:49	10
1,1-Dichloroethene	ND		5.0		ug/L			09/22/17 13:49	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			09/22/17 13:49	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			09/22/17 13:49	10
1,2-Dichloropropane	ND		5.0		ug/L			09/22/17 13:49	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			09/22/17 13:49	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			09/22/17 13:49	10
Ethylbenzene	ND		5.0		ug/L			09/22/17 13:49	10
Hexachlorobutadiene	ND		10		ug/L			09/22/17 13:49	10
2-Hexanone	ND		500		ug/L			09/22/17 13:49	10
Isopropylbenzene	ND		5.0		ug/L			09/22/17 13:49	10
4-Isopropyltoluene	ND		10		ug/L			09/22/17 13:49	10
Methylene Chloride	ND		50		ug/L			09/22/17 13:49	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			09/22/17 13:49	10
Naphthalene	ND		10		ug/L			09/22/17 13:49	10
N-Propylbenzene	ND		10		ug/L			09/22/17 13:49	10
Styrene	ND		5.0		ug/L			09/22/17 13:49	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			09/22/17 13:49	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-12

Lab Sample ID: 720-81984-1

Date Collected: 09/14/17 12:00

Matrix: Water

Date Received: 09/15/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			09/22/17 13:49	10
Tetrachloroethene	ND		5.0		ug/L			09/22/17 13:49	10
Toluene	ND		5.0		ug/L			09/22/17 13:49	10
1,2,3-Trichlorobenzene	ND		10		ug/L			09/22/17 13:49	10
1,2,4-Trichlorobenzene	ND		10		ug/L			09/22/17 13:49	10
1,1,1-Trichloroethane	ND		5.0		ug/L			09/22/17 13:49	10
1,1,2-Trichloroethane	ND		5.0		ug/L			09/22/17 13:49	10
Trichloroethene	ND		5.0		ug/L			09/22/17 13:49	10
Trichlorofluoromethane	ND		10		ug/L			09/22/17 13:49	10
1,2,3-Trichloropropane	ND		5.0		ug/L			09/22/17 13:49	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			09/22/17 13:49	10
1,2,4-Trimethylbenzene	ND		5.0		ug/L			09/22/17 13:49	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			09/22/17 13:49	10
Vinyl acetate	ND		100		ug/L			09/22/17 13:49	10
Vinyl chloride	ND		5.0		ug/L			09/22/17 13:49	10
Xylenes, Total	ND		10		ug/L			09/22/17 13:49	10
2,2-Dichloropropane	ND		5.0		ug/L			09/22/17 13:49	10
Gasoline Range Organics (GRO)	1400		500		ug/L			09/22/17 13:49	10
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		09/22/17 13:49	10
1,2-Dichloroethane-d4 (Surr)	113		72 - 130		09/22/17 13:49	10
Toluene-d8 (Surr)	98		70 - 130		09/22/17 13:49	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 23:42	1
Nitrate as NO3	ND		1.0		mg/L			09/15/17 23:42	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.8		1.0		mg/L		09/19/17 13:03	09/19/17 23:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			09/21/17 12:29	1
Ferrous Iron	2.1	HF	0.10		mg/L			09/18/17 12:26	1
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:22	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-4R
Date Collected: 09/14/17 13:45
Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/16/17 00:21	1
Nitrate as NO3	48		10		mg/L			09/16/17 00:38	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12		1.0		mg/L		09/19/17 13:03	09/19/17 23:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2.8		0.20		mg/L		09/20/17 10:33	09/20/17 14:25	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-11R

Date Collected: 09/14/17 12:50

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		50		ug/L			09/22/17 14:17	100
Acetone	ND		5000		ug/L			09/22/17 14:17	100
Benzene	60		50		ug/L			09/22/17 14:17	100
Dichlorobromomethane	ND		50		ug/L			09/22/17 14:17	100
Bromobenzene	ND		100		ug/L			09/22/17 14:17	100
Chlorobromomethane	ND		100		ug/L			09/22/17 14:17	100
Bromoform	ND		100		ug/L			09/22/17 14:17	100
Bromomethane	ND		100		ug/L			09/22/17 14:17	100
2-Butanone (MEK)	ND		5000		ug/L			09/22/17 14:17	100
n-Butylbenzene	ND		100		ug/L			09/22/17 14:17	100
sec-Butylbenzene	ND		100		ug/L			09/22/17 14:17	100
tert-Butylbenzene	ND		100		ug/L			09/22/17 14:17	100
Carbon disulfide	ND		500		ug/L			09/22/17 14:17	100
Carbon tetrachloride	ND		50		ug/L			09/22/17 14:17	100
Chlorobenzene	ND		50		ug/L			09/22/17 14:17	100
Chloroethane	ND		100		ug/L			09/22/17 14:17	100
Chloroform	ND		100		ug/L			09/22/17 14:17	100
Chloromethane	ND		100		ug/L			09/22/17 14:17	100
2-Chlorotoluene	ND		50		ug/L			09/22/17 14:17	100
4-Chlorotoluene	ND		50		ug/L			09/22/17 14:17	100
Chlorodibromomethane	ND		50		ug/L			09/22/17 14:17	100
1,2-Dichlorobenzene	ND		50		ug/L			09/22/17 14:17	100
1,3-Dichlorobenzene	ND		50		ug/L			09/22/17 14:17	100
1,4-Dichlorobenzene	ND		50		ug/L			09/22/17 14:17	100
1,3-Dichloropropane	ND		100		ug/L			09/22/17 14:17	100
1,1-Dichloropropene	ND		50		ug/L			09/22/17 14:17	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			09/22/17 14:17	100
Ethylene Dibromide	ND		50		ug/L			09/22/17 14:17	100
Dibromomethane	ND		50		ug/L			09/22/17 14:17	100
Dichlorodifluoromethane	ND		50		ug/L			09/22/17 14:17	100
1,1-Dichloroethane	ND		50		ug/L			09/22/17 14:17	100
1,2-Dichloroethane	ND		50		ug/L			09/22/17 14:17	100
1,1-Dichloroethene	ND		50		ug/L			09/22/17 14:17	100
cis-1,2-Dichloroethene	ND		50		ug/L			09/22/17 14:17	100
trans-1,2-Dichloroethene	ND		50		ug/L			09/22/17 14:17	100
1,2-Dichloropropane	ND		50		ug/L			09/22/17 14:17	100
cis-1,3-Dichloropropene	ND		50		ug/L			09/22/17 14:17	100
trans-1,3-Dichloropropene	ND		50		ug/L			09/22/17 14:17	100
Ethylbenzene	1900		50		ug/L			09/22/17 14:17	100
Hexachlorobutadiene	ND		100		ug/L			09/22/17 14:17	100
2-Hexanone	ND		5000		ug/L			09/22/17 14:17	100
Isopropylbenzene	120		50		ug/L			09/22/17 14:17	100
4-Isopropyltoluene	ND		100		ug/L			09/22/17 14:17	100
Methylene Chloride	ND		500		ug/L			09/22/17 14:17	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			09/22/17 14:17	100
Naphthalene	520		100		ug/L			09/22/17 14:17	100
N-Propylbenzene	310		100		ug/L			09/22/17 14:17	100
Styrene	ND		50		ug/L			09/22/17 14:17	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			09/22/17 14:17	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-11R

Lab Sample ID: 720-81984-3

Date Collected: 09/14/17 12:50

Matrix: Water

Date Received: 09/15/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		50		ug/L			09/22/17 14:17	100
Tetrachloroethene	ND		50		ug/L			09/22/17 14:17	100
Toluene	900		50		ug/L			09/22/17 14:17	100
1,2,3-Trichlorobenzene	ND		100		ug/L			09/22/17 14:17	100
1,2,4-Trichlorobenzene	ND		100		ug/L			09/22/17 14:17	100
1,1,1-Trichloroethane	ND		50		ug/L			09/22/17 14:17	100
1,1,2-Trichloroethane	ND		50		ug/L			09/22/17 14:17	100
Trichloroethene	ND		50		ug/L			09/22/17 14:17	100
Trichlorofluoromethane	ND		100		ug/L			09/22/17 14:17	100
1,2,3-Trichloropropane	ND		50		ug/L			09/22/17 14:17	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			09/22/17 14:17	100
1,2,4-Trimethylbenzene	2500		50		ug/L			09/22/17 14:17	100
1,3,5-Trimethylbenzene	530		50		ug/L			09/22/17 14:17	100
Vinyl acetate	ND		1000		ug/L			09/22/17 14:17	100
Vinyl chloride	ND		50		ug/L			09/22/17 14:17	100
Xylenes, Total	12000		100		ug/L			09/22/17 14:17	100
2,2-Dichloropropane	ND		50		ug/L			09/22/17 14:17	100
Gasoline Range Organics (GRO)	34000		5000		ug/L			09/22/17 14:17	100
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		09/22/17 14:17	100
1,2-Dichloroethane-d4 (Surr)	110		72 - 130		09/22/17 14:17	100
Toluene-d8 (Surr)	99		70 - 130		09/22/17 14:17	100

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/16/17 00:56	1
Nitrate as NO3	10		1.0		mg/L			09/16/17 00:56	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13		1.0		mg/L		09/19/17 13:03	09/19/17 23:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			09/21/17 12:29	1
Ferrous Iron	14	HF	0.50		mg/L			09/18/17 12:26	5
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 14:28	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-5R
Date Collected: 09/14/17 14:30
Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		50		ug/L			09/22/17 14:46	100
Acetone	ND		5000		ug/L			09/22/17 14:46	100
Benzene	5000		50		ug/L			09/22/17 14:46	100
Dichlorobromomethane	ND		50		ug/L			09/22/17 14:46	100
Bromobenzene	ND		100		ug/L			09/22/17 14:46	100
Chlorobromomethane	ND		100		ug/L			09/22/17 14:46	100
Bromoform	ND		100		ug/L			09/22/17 14:46	100
Bromomethane	ND		100		ug/L			09/22/17 14:46	100
2-Butanone (MEK)	ND		5000		ug/L			09/22/17 14:46	100
n-Butylbenzene	ND		100		ug/L			09/22/17 14:46	100
sec-Butylbenzene	ND		100		ug/L			09/22/17 14:46	100
tert-Butylbenzene	ND		100		ug/L			09/22/17 14:46	100
Carbon disulfide	ND		500		ug/L			09/22/17 14:46	100
Carbon tetrachloride	ND		50		ug/L			09/22/17 14:46	100
Chlorobenzene	ND		50		ug/L			09/22/17 14:46	100
Chloroethane	ND		100		ug/L			09/22/17 14:46	100
Chloroform	ND		100		ug/L			09/22/17 14:46	100
Chloromethane	ND		100		ug/L			09/22/17 14:46	100
2-Chlorotoluene	ND		50		ug/L			09/22/17 14:46	100
4-Chlorotoluene	ND		50		ug/L			09/22/17 14:46	100
Chlorodibromomethane	ND		50		ug/L			09/22/17 14:46	100
1,2-Dichlorobenzene	ND		50		ug/L			09/22/17 14:46	100
1,3-Dichlorobenzene	ND		50		ug/L			09/22/17 14:46	100
1,4-Dichlorobenzene	ND		50		ug/L			09/22/17 14:46	100
1,3-Dichloropropane	ND		100		ug/L			09/22/17 14:46	100
1,1-Dichloropropene	ND		50		ug/L			09/22/17 14:46	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			09/22/17 14:46	100
Ethylene Dibromide	ND		50		ug/L			09/22/17 14:46	100
Dibromomethane	ND		50		ug/L			09/22/17 14:46	100
Dichlorodifluoromethane	ND		50		ug/L			09/22/17 14:46	100
1,1-Dichloroethane	ND		50		ug/L			09/22/17 14:46	100
1,2-Dichloroethane	ND		50		ug/L			09/22/17 14:46	100
1,1-Dichloroethene	ND		50		ug/L			09/22/17 14:46	100
cis-1,2-Dichloroethene	ND		50		ug/L			09/22/17 14:46	100
trans-1,2-Dichloroethene	ND		50		ug/L			09/22/17 14:46	100
1,2-Dichloropropane	ND		50		ug/L			09/22/17 14:46	100
cis-1,3-Dichloropropene	ND		50		ug/L			09/22/17 14:46	100
trans-1,3-Dichloropropene	ND		50		ug/L			09/22/17 14:46	100
Ethylbenzene	2100		50		ug/L			09/22/17 14:46	100
Hexachlorobutadiene	ND		100		ug/L			09/22/17 14:46	100
2-Hexanone	ND		5000		ug/L			09/22/17 14:46	100
Isopropylbenzene	77		50		ug/L			09/22/17 14:46	100
4-Isopropyltoluene	ND		100		ug/L			09/22/17 14:46	100
Methylene Chloride	ND		500		ug/L			09/22/17 14:46	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			09/22/17 14:46	100
Naphthalene	380		100		ug/L			09/22/17 14:46	100
N-Propylbenzene	180		100		ug/L			09/22/17 14:46	100
Styrene	ND		50		ug/L			09/22/17 14:46	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			09/22/17 14:46	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-5R

Lab Sample ID: 720-81984-4

Date Collected: 09/14/17 14:30

Matrix: Water

Date Received: 09/15/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		50		ug/L			09/22/17 14:46	100
Tetrachloroethene	ND		50		ug/L			09/22/17 14:46	100
Toluene	8600		50		ug/L			09/22/17 14:46	100
1,2,3-Trichlorobenzene	ND		100		ug/L			09/22/17 14:46	100
1,2,4-Trichlorobenzene	ND		100		ug/L			09/22/17 14:46	100
1,1,1-Trichloroethane	ND		50		ug/L			09/22/17 14:46	100
1,1,2-Trichloroethane	ND		50		ug/L			09/22/17 14:46	100
Trichloroethene	ND		50		ug/L			09/22/17 14:46	100
Trichlorofluoromethane	ND		100		ug/L			09/22/17 14:46	100
1,2,3-Trichloropropane	ND		50		ug/L			09/22/17 14:46	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			09/22/17 14:46	100
1,2,4-Trimethylbenzene	1600		50		ug/L			09/22/17 14:46	100
1,3,5-Trimethylbenzene	380		50		ug/L			09/22/17 14:46	100
Vinyl acetate	ND		1000		ug/L			09/22/17 14:46	100
Vinyl chloride	ND		50		ug/L			09/22/17 14:46	100
Xylenes, Total	11000		100		ug/L			09/22/17 14:46	100
2,2-Dichloropropane	ND		50		ug/L			09/22/17 14:46	100
Gasoline Range Organics (GRO)	48000		5000		ug/L			09/22/17 14:46	100
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		09/22/17 14:46	100
1,2-Dichloroethane-d4 (Surr)	111		72 - 130		09/22/17 14:46	100
Toluene-d8 (Surr)	99		70 - 130		09/22/17 14:46	100

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/16/17 02:04	1
Nitrate as NO3	ND		1.0		mg/L			09/16/17 02:04	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9		1.0		mg/L		09/19/17 13:03	09/20/17 00:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			09/21/17 12:29	1
Ferrous Iron	2.8	HF	0.10		mg/L			09/18/17 12:26	1
Ammonia	1.2		0.20		mg/L		09/20/17 10:33	09/20/17 14:37	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-7R

Date Collected: 09/14/17 15:30

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-5

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		250		ug/L			09/22/17 15:14	500
Acetone	ND		25000		ug/L			09/22/17 15:14	500
Benzene	ND		250		ug/L			09/22/17 15:14	500
Dichlorobromomethane	ND		250		ug/L			09/22/17 15:14	500
Bromobenzene	ND		500		ug/L			09/22/17 15:14	500
Chlorobromomethane	ND		500		ug/L			09/22/17 15:14	500
Bromoform	ND		500		ug/L			09/22/17 15:14	500
Bromomethane	ND		500		ug/L			09/22/17 15:14	500
2-Butanone (MEK)	ND		25000		ug/L			09/22/17 15:14	500
n-Butylbenzene	ND		500		ug/L			09/22/17 15:14	500
sec-Butylbenzene	ND		500		ug/L			09/22/17 15:14	500
tert-Butylbenzene	ND		500		ug/L			09/22/17 15:14	500
Carbon disulfide	ND		2500		ug/L			09/22/17 15:14	500
Carbon tetrachloride	ND		250		ug/L			09/22/17 15:14	500
Chlorobenzene	ND		250		ug/L			09/22/17 15:14	500
Chloroethane	ND		500		ug/L			09/22/17 15:14	500
Chloroform	ND		500		ug/L			09/22/17 15:14	500
Chloromethane	ND		500		ug/L			09/22/17 15:14	500
2-Chlorotoluene	ND		250		ug/L			09/22/17 15:14	500
4-Chlorotoluene	ND		250		ug/L			09/22/17 15:14	500
Chlorodibromomethane	ND		250		ug/L			09/22/17 15:14	500
1,2-Dichlorobenzene	ND		250		ug/L			09/22/17 15:14	500
1,3-Dichlorobenzene	ND		250		ug/L			09/22/17 15:14	500
1,4-Dichlorobenzene	ND		250		ug/L			09/22/17 15:14	500
1,3-Dichloropropane	ND		500		ug/L			09/22/17 15:14	500
1,1-Dichloropropane	ND		250		ug/L			09/22/17 15:14	500
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			09/22/17 15:14	500
Ethylene Dibromide	ND		250		ug/L			09/22/17 15:14	500
Dibromomethane	ND		250		ug/L			09/22/17 15:14	500
Dichlorodifluoromethane	ND		250		ug/L			09/22/17 15:14	500
1,1-Dichloroethane	ND		250		ug/L			09/22/17 15:14	500
1,2-Dichloroethane	ND		250		ug/L			09/22/17 15:14	500
1,1-Dichloroethene	ND		250		ug/L			09/22/17 15:14	500
cis-1,2-Dichloroethene	ND		250		ug/L			09/22/17 15:14	500
trans-1,2-Dichloroethene	ND		250		ug/L			09/22/17 15:14	500
1,2-Dichloropropane	ND		250		ug/L			09/22/17 15:14	500
cis-1,3-Dichloropropene	ND		250		ug/L			09/22/17 15:14	500
trans-1,3-Dichloropropene	ND		250		ug/L			09/22/17 15:14	500
Ethylbenzene	560		250		ug/L			09/22/17 15:14	500
Hexachlorobutadiene	ND		500		ug/L			09/22/17 15:14	500
2-Hexanone	ND		25000		ug/L			09/22/17 15:14	500
Isopropylbenzene	ND		250		ug/L			09/22/17 15:14	500
4-Isopropyltoluene	ND		500		ug/L			09/22/17 15:14	500
Methylene Chloride	ND		2500		ug/L			09/22/17 15:14	500
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			09/22/17 15:14	500
Naphthalene	700		500		ug/L			09/22/17 15:14	500
N-Propylbenzene	ND		500		ug/L			09/22/17 15:14	500
Styrene	ND		250		ug/L			09/22/17 15:14	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			09/22/17 15:14	500

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-7R

Lab Sample ID: 720-81984-5

Date Collected: 09/14/17 15:30

Matrix: Water

Date Received: 09/15/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		250		ug/L			09/22/17 15:14	500
Tetrachloroethene	ND		250		ug/L			09/22/17 15:14	500
Toluene	2300		250		ug/L			09/22/17 15:14	500
1,2,3-Trichlorobenzene	ND		500		ug/L			09/22/17 15:14	500
1,2,4-Trichlorobenzene	ND		500		ug/L			09/22/17 15:14	500
1,1,1-Trichloroethane	ND		250		ug/L			09/22/17 15:14	500
1,1,2-Trichloroethane	ND		250		ug/L			09/22/17 15:14	500
Trichloroethene	ND		250		ug/L			09/22/17 15:14	500
Trichlorofluoromethane	ND		500		ug/L			09/22/17 15:14	500
1,2,3-Trichloropropane	ND		250		ug/L			09/22/17 15:14	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250		ug/L			09/22/17 15:14	500
1,2,4-Trimethylbenzene	2000		250		ug/L			09/22/17 15:14	500
1,3,5-Trimethylbenzene	480		250		ug/L			09/22/17 15:14	500
Vinyl acetate	ND		5000		ug/L			09/22/17 15:14	500
Vinyl chloride	ND		250		ug/L			09/22/17 15:14	500
Xylenes, Total	16000		500		ug/L			09/22/17 15:14	500
2,2-Dichloropropane	ND		250		ug/L			09/22/17 15:14	500
Gasoline Range Organics (GRO)	37000		25000		ug/L			09/22/17 15:14	500
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		09/22/17 15:14	500
1,2-Dichloroethane-d4 (Surr)	112		72 - 130		09/22/17 15:14	500
Toluene-d8 (Surr)	99		70 - 130		09/22/17 15:14	500

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	11		1.0		mg/L			09/16/17 02:38	1
Nitrate as NO3	49		10		mg/L			09/16/17 02:56	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.6		1.0		mg/L		09/19/17 13:03	09/20/17 00:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	3.1		0.10		mg/L			09/21/17 12:29	1
Ferrous Iron	0.52	HF	0.10		mg/L			09/18/17 12:26	1
Ammonia	1.9		0.20		mg/L		09/20/17 10:33	09/20/17 14:40	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-230660/4
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/22/17 09:53	1
Acetone	ND		50		ug/L			09/22/17 09:53	1
Benzene	ND		0.50		ug/L			09/22/17 09:53	1
Dichlorobromomethane	ND		0.50		ug/L			09/22/17 09:53	1
Bromobenzene	ND		1.0		ug/L			09/22/17 09:53	1
Chlorobromomethane	ND		1.0		ug/L			09/22/17 09:53	1
Bromoform	ND		1.0		ug/L			09/22/17 09:53	1
Bromomethane	ND		1.0		ug/L			09/22/17 09:53	1
2-Butanone (MEK)	ND		50		ug/L			09/22/17 09:53	1
n-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
sec-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
tert-Butylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
Carbon disulfide	ND		5.0		ug/L			09/22/17 09:53	1
Carbon tetrachloride	ND		0.50		ug/L			09/22/17 09:53	1
Chlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
Chloroethane	ND		1.0		ug/L			09/22/17 09:53	1
Chloroform	ND		1.0		ug/L			09/22/17 09:53	1
Chloromethane	ND		1.0		ug/L			09/22/17 09:53	1
2-Chlorotoluene	ND		0.50		ug/L			09/22/17 09:53	1
4-Chlorotoluene	ND		0.50		ug/L			09/22/17 09:53	1
Chlorodibromomethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,4-Dichlorobenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3-Dichloropropane	ND		1.0		ug/L			09/22/17 09:53	1
1,1-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			09/22/17 09:53	1
Ethylene Dibromide	ND		0.50		ug/L			09/22/17 09:53	1
Dibromomethane	ND		0.50		ug/L			09/22/17 09:53	1
Dichlorodifluoromethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1-Dichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
1,2-Dichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			09/22/17 09:53	1
Ethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
Hexachlorobutadiene	ND		1.0		ug/L			09/22/17 09:53	1
2-Hexanone	ND		50		ug/L			09/22/17 09:53	1
Isopropylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
4-Isopropyltoluene	ND		1.0		ug/L			09/22/17 09:53	1
Methylene Chloride	ND		5.0		ug/L			09/22/17 09:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			09/22/17 09:53	1
Naphthalene	ND		1.0		ug/L			09/22/17 09:53	1
N-Propylbenzene	ND		1.0		ug/L			09/22/17 09:53	1
Styrene	ND		0.50		ug/L			09/22/17 09:53	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-230660/4
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/22/17 09:53	1
Tetrachloroethene	ND		0.50		ug/L			09/22/17 09:53	1
Toluene	ND		0.50		ug/L			09/22/17 09:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/22/17 09:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/22/17 09:53	1
1,1,1-Trichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2-Trichloroethane	ND		0.50		ug/L			09/22/17 09:53	1
Trichloroethene	ND		0.50		ug/L			09/22/17 09:53	1
Trichlorofluoromethane	ND		1.0		ug/L			09/22/17 09:53	1
1,2,3-Trichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			09/22/17 09:53	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			09/22/17 09:53	1
Vinyl acetate	ND		10		ug/L			09/22/17 09:53	1
Vinyl chloride	ND		0.50		ug/L			09/22/17 09:53	1
Xylenes, Total	ND		1.0		ug/L			09/22/17 09:53	1
2,2-Dichloropropane	ND		0.50		ug/L			09/22/17 09:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/22/17 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		09/22/17 09:53	1
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		09/22/17 09:53	1
Toluene-d8 (Surr)	99		70 - 130		09/22/17 09:53	1

Lab Sample ID: LCS 720-230660/5
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.2		ug/L		105	62 - 130
Acetone	125	120		ug/L		96	26 - 180
Benzene	25.0	23.6		ug/L		94	79 - 130
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	24.4		ug/L		98	68 - 136
Bromomethane	25.0	24.0		ug/L		96	43 - 151
2-Butanone (MEK)	125	131		ug/L		104	54 - 153
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 142
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 134
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135
Carbon disulfide	25.0	31.6		ug/L		126	68 - 146
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 146
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chloroethane	25.0	23.0		ug/L		92	62 - 138
Chloroform	25.0	25.9		ug/L		103	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230660/5

Matrix: Water

Analysis Batch: 230660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	21.4		ug/L		86	52 - 175
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
4-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	25.1		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	32 - 158
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	61 - 132
1,1-Dichloroethene	25.0	26.3		ug/L		105	64 - 128
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	68 - 130
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 140
Ethylbenzene	25.0	24.3		ug/L		97	80 - 120
Hexachlorobutadiene	25.0	21.7		ug/L		87	70 - 130
2-Hexanone	125	132		ug/L		106	60 - 164
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130
Methylene Chloride	25.0	25.5		ug/L		102	70 - 147
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	50 - 155
Naphthalene	25.0	23.0		ug/L		92	50 - 130
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		103	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130
Tetrachloroethene	25.0	24.0		ug/L		96	70 - 130
Toluene	25.0	24.1		ug/L		96	78 - 120
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		93	70 - 130
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	26.4		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	42 - 162
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 132
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130
Vinyl acetate	25.0	25.7		ug/L		103	43 - 163
Vinyl chloride	25.0	27.3		ug/L		109	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-230660/5
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 142
o-Xylene	25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCS 720-230660/7
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	511		ug/L		102	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-230660/6
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.5		ug/L		106	62 - 130	1	20
Acetone	125	111		ug/L		89	26 - 180	8	30
Benzene	25.0	23.8		ug/L		95	79 - 130	1	20
Dichlorobromomethane	25.0	27.3		ug/L		109	70 - 130	5	20
Bromobenzene	25.0	23.3		ug/L		93	70 - 130	1	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	1	20
Bromoform	25.0	24.1		ug/L		96	68 - 136	1	20
Bromomethane	25.0	24.9		ug/L		99	43 - 151	3	20
2-Butanone (MEK)	125	121		ug/L		97	54 - 153	8	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 142	2	20
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 134	2	20
tert-Butylbenzene	25.0	23.5		ug/L		94	70 - 135	1	20
Carbon disulfide	25.0	31.3		ug/L		125	68 - 146	1	20
Carbon tetrachloride	25.0	26.6		ug/L		106	70 - 146	0	20
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	1	20
Chloroethane	25.0	23.8		ug/L		95	62 - 138	3	20
Chloroform	25.0	26.2		ug/L		105	70 - 130	1	20
Chloromethane	25.0	22.2		ug/L		89	52 - 175	4	20
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	0	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	0	20
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230660/6
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 136	7	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	1	20
Dibromomethane	25.0	26.3		ug/L		105	70 - 130	1	20
Dichlorodifluoromethane	25.0	23.1		ug/L		93	32 - 158	2	20
1,1-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	25.0	26.8		ug/L		107	61 - 132	0	20
1,1-Dichloroethene	25.0	26.4		ug/L		106	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	68 - 130	1	20
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 140	2	20
Ethylbenzene	25.0	24.2		ug/L		97	80 - 120	0	20
Hexachlorobutadiene	25.0	21.2		ug/L		85	70 - 130	2	20
2-Hexanone	125	126		ug/L		101	60 - 164	5	20
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	26.2		ug/L		105	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	50 - 155	2	20
Naphthalene	25.0	22.6		ug/L		90	50 - 130	2	20
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20
Styrene	25.0	25.7		ug/L		103	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130	5	20
Tetrachloroethene	25.0	24.1		ug/L		96	70 - 130	0	20
Toluene	25.0	24.1		ug/L		96	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	66 - 132	3	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		95	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.4		ug/L		114	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	0	20
Vinyl acetate	25.0	25.6		ug/L		102	43 - 163	0	20
Vinyl chloride	25.0	26.7		ug/L		107	54 - 135	2	20
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 142	1	20
o-Xylene	25.0	25.4		ug/L		102	70 - 130	1	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-230660/6
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-230660/8
Matrix: Water
Analysis Batch: 230660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	510		ug/L		102	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	110		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-230247/4
Matrix: Water
Analysis Batch: 230247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			09/15/17 22:55	1
Nitrate as NO3	ND		1.0		mg/L			09/15/17 22:55	1

Lab Sample ID: LCS 720-230247/5
Matrix: Water
Analysis Batch: 230247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	11.0		mg/L		110	90 - 110
Nitrate as NO3	10.0	10.7		mg/L		107	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-230388/1-A
Matrix: Water
Analysis Batch: 230471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		09/19/17 13:03	09/19/17 22:10	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-230388/2-A
Matrix: Water
Analysis Batch: 230471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	10.0	9.67		mg/L		97	85 - 115

Lab Sample ID: 720-81984-1 MS
Matrix: Water
Analysis Batch: 230471

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	1.8		10.0	11.8		mg/L		101	70 - 130

Lab Sample ID: 720-81984-1 MSD
Matrix: Water
Analysis Batch: 230471

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 230388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	1.8		10.0	10.4		mg/L		86	70 - 130	13	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-230291/10
Matrix: Water
Analysis Batch: 230291

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			09/18/17 12:26	1

Lab Sample ID: LCS 720-230291/11
Matrix: Water
Analysis Batch: 230291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ferrous Iron	1.00	0.973		mg/L		97	85 - 115

Lab Sample ID: 720-81984-1 MS
Matrix: Water
Analysis Batch: 230291

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ferrous Iron	2.1	HF	1.00	3.14		mg/L		103	75 - 125

Lab Sample ID: 720-81984-1 MSD
Matrix: Water
Analysis Batch: 230291

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ferrous Iron	2.1	HF	1.00	3.16		mg/L		105	75 - 125	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-402060/1-A
Matrix: Water
Analysis Batch: 402276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 402060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		09/20/17 10:33	09/20/17 13:25	1

Lab Sample ID: LCS 500-402060/2-A
Matrix: Water
Analysis Batch: 402276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 402060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.50	2.45		mg/L		98	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

GC/MS VOA

Analysis Batch: 230660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-81984-3	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
720-81984-4	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-81984-5	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-230660/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230660/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-230660/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230660/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-230660/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 230247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	300.0	
720-81984-2	MW-4R	Total/NA	Water	300.0	
720-81984-2	MW-4R	Total/NA	Water	300.0	
720-81984-3	MW-11R	Total/NA	Water	300.0	
720-81984-4	MW-5R	Total/NA	Water	300.0	
720-81984-5	MW-7R	Total/NA	Water	300.0	
720-81984-5	MW-7R	Total/NA	Water	300.0	
MB 720-230247/4	Method Blank	Total/NA	Water	300.0	
LCS 720-230247/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 230388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	200.7	
720-81984-2	MW-4R	Total/NA	Water	200.7	
720-81984-3	MW-11R	Total/NA	Water	200.7	
720-81984-4	MW-5R	Total/NA	Water	200.7	
720-81984-5	MW-7R	Total/NA	Water	200.7	
MB 720-230388/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-230388/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-81984-1 MS	MW-12	Total/NA	Water	200.7	
720-81984-1 MSD	MW-12	Total/NA	Water	200.7	

Analysis Batch: 230471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	200.7 Rev 4.4	230388
720-81984-2	MW-4R	Total/NA	Water	200.7 Rev 4.4	230388
720-81984-3	MW-11R	Total/NA	Water	200.7 Rev 4.4	230388

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Metals (Continued)

Analysis Batch: 230471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-4	MW-5R	Total/NA	Water	200.7 Rev 4.4	230388
720-81984-5	MW-7R	Total/NA	Water	200.7 Rev 4.4	230388
MB 720-230388/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	230388
LCS 720-230388/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	230388
720-81984-1 MS	MW-12	Total/NA	Water	200.7 Rev 4.4	230388
720-81984-1 MSD	MW-12	Total/NA	Water	200.7 Rev 4.4	230388

General Chemistry

Analysis Batch: 230291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	SM 3500 Fe B	
720-81984-3	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-81984-4	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-81984-5	MW-7R	Total/NA	Water	SM 3500 Fe B	
MB 720-230291/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-230291/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-81984-1 MS	MW-12	Total/NA	Water	SM 3500 Fe B	
720-81984-1 MSD	MW-12	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 230583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	SM 3500	
720-81984-3	MW-11R	Total/NA	Water	SM 3500	
720-81984-4	MW-5R	Total/NA	Water	SM 3500	
720-81984-5	MW-7R	Total/NA	Water	SM 3500	

Prep Batch: 402060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-81984-2	MW-4R	Total/NA	Water	SM 4500 NH3 B	
720-81984-3	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-81984-4	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-81984-5	MW-7R	Total/NA	Water	SM 4500 NH3 B	
MB 500-402060/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-402060/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 402276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-81984-1	MW-12	Total/NA	Water	SM 4500 NH3 G	402060
720-81984-2	MW-4R	Total/NA	Water	SM 4500 NH3 G	402060
720-81984-3	MW-11R	Total/NA	Water	SM 4500 NH3 G	402060
720-81984-4	MW-5R	Total/NA	Water	SM 4500 NH3 G	402060
720-81984-5	MW-7R	Total/NA	Water	SM 4500 NH3 G	402060
MB 500-402060/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	402060
LCS 500-402060/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	402060

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-12

Date Collected: 09/14/17 12:00

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	230660	09/22/17 13:49	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230247	09/15/17 23:42	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:46	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230583	09/21/17 12:29	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230291	09/18/17 12:26	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:22		
					(End)	09/20/17 14:25		

Client Sample ID: MW-4R

Date Collected: 09/14/17 13:45

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	230247	09/16/17 00:21	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230247	09/16/17 00:38	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:51	ASB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:25		
					(End)	09/20/17 14:28		

Client Sample ID: MW-11R

Date Collected: 09/14/17 12:50

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	230660	09/22/17 14:17	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230247	09/16/17 00:56	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/19/17 23:57	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230583	09/21/17 12:29	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		5	230291	09/18/17 12:26	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
					(Start)	09/20/17 14:28		
					(End)	09/20/17 14:31		

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Client Sample ID: MW-5R

Date Collected: 09/14/17 14:30

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	230660	09/22/17 14:46	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230247	09/16/17 02:04	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/20/17 00:02	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230583	09/21/17 12:29	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230291	09/18/17 12:26	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
						(Start) 09/20/17 14:37		
						(End) 09/20/17 14:40		

Client Sample ID: MW-7R

Date Collected: 09/14/17 15:30

Date Received: 09/15/17 16:40

Lab Sample ID: 720-81984-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		500	230660	09/22/17 15:14	BAJ	TAL PLS
Total/NA	Analysis	300.0		1	230247	09/16/17 02:38	ECB	TAL PLS
Total/NA	Analysis	300.0		10	230247	09/16/17 02:56	ECB	TAL PLS
Total/NA	Prep	200.7			230388	09/19/17 13:03	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	230471	09/20/17 00:18	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	230583	09/21/17 12:29	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	230291	09/18/17 12:26	TNL	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			402060	09/20/17 10:33	MAN	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	402276		MAN	TAL CHI
						(Start) 09/20/17 14:40		
						(End) 09/20/17 14:43		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-19
Indiana	State Program	5	C-IL-02	04-30-18
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17 *
Kentucky (UST)	State Program	4	66	04-30-18
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18
North Carolina (WW/SW)	State Program	4	291	12-31-17 *
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-18
South Carolina	State Program	4	77001	04-30-17 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-18
Wyoming	State Program	8	8TMS-Q	04-30-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-81984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-81984-1	MW-12	Water	09/14/17 12:00	09/15/17 16:40
720-81984-2	MW-4R	Water	09/14/17 13:45	09/15/17 16:40
720-81984-3	MW-11R	Water	09/14/17 12:50	09/15/17 16:40
720-81984-4	MW-5R	Water	09/14/17 14:30	09/15/17 16:40
720-81984-5	MW-7R	Water	09/14/17 15:30	09/15/17 16:40

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

720-81984

Chain of Custody Record

178395

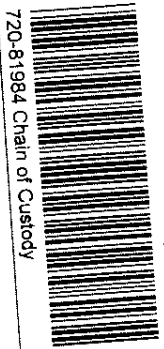
TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact: Ningyo & Moore
Project Manager: Peter Sims
Tel/Fax: 510.343.3000
Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS
TAT if different from Below: _____

Site Contact: Asha Turman
Date: 9-14-17
Carrier: _____
COC No: 1 of 1 COCS
Sampler ALT: _____
For Lab Use Only: Walk-in Client Lab Sampling. _____
Job / SDG No: _____

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp G=gram)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Ferric Iron by Calculation	Ferrous Iron: SM 3500 Fe D	Iron: EPA 200.8	Nitrate, Nitrite: EPA 300.0	Nitrogen, Ammonia, SM 4500 NH3 D	TPHg + VOCs, EPA 8260B
MW-12	9 14 17	1200	G	GW	9	N	N	X	X	X	X	X	X
MW-4R	9 14 17	1345	G	GW	1	N	N	X	X	X	X	X	X
MW-11R	9 14 17	1250	G	GW	1	N	N	X	X	X	X	X	X
MW-14	9 14 17		G	GW		N	N	X	X	X	X	X	X
MW-5R	9 14 17	1430	G	GW		N	N	X	X	X	X	X	X
MW-7R	9 14 17	1530	G	GW		N	N	X	X	X	X	X	X



Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
Possible Hazard Identification: _____
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample _____
Special Instructions/QC Requirements & Comments: _____

Non-Hazard Flammable Skin Irritant Poison 8 Unknown Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: Yes No
Custody Seal No: _____
Company: Ningyo & Moore
Date/Time: 9 14 17
Received by: _____
Cooler Temp (°C) Obs'd: _____
Company: _____
Date/Time: 9/15/17 15:00
Received in Laboratory by: _____
Company: _____
Date/Time: 9/15/17 16:40

2.3

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-81984-1

Login Number: 81984
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-81984-1

Login Number: 81984
List Number: 2
Creator: Scott, Sherri L

List Source: TestAmerica Chicago
List Creation: 09/19/17 11:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-82231-1
Client Project/Site: Chun
Revision: 1

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
12/12/2017 2:22:28 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	24
Lab Chronicle	25
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	33

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Job ID: 720-82231-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-82231-1

Comments

Revised report on 12/12 to include full list VOC compounds.
No additional comments.

Receipt

The samples were received on 9/27/2017 4:52 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

The following samples were collected in an improper container for SM3500FeD: MW-6R and MW-4R. Received 3-40ml amber unpreserved vials. The lab will use only one HCl clear vial for Ferrous Fe.
The Chain-of-Custody (COC) was improperly completed. Received 3 containers for MW-14 not 6 as listed on the COC. Received 6 containers for MW4R not 3 as listed on the COC.
SM 3500-FeD, logged as Ferrous Fe by SM 3500 FeB.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-6R

Lab Sample ID: 720-82231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Volatile Fuel Hydrocarbons (C4-C12)	75		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	0.65		0.50		ug/L	1		8260B	Total/NA
Isopropylbenzene	1.3		0.50		ug/L	1		8260B	Total/NA
Naphthalene	1.8		1.0		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.5		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	1.7		1.0		ug/L	1		8260B	Total/NA
Ferrous Iron	0.28	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 720-82231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Volatile Fuel Hydrocarbons (C4-C12)	23000		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	780		25		ug/L	50		8260B	Total/NA
1,3,5-Trimethylbenzene	160		25		ug/L	50		8260B	Total/NA
Benzene	880		25		ug/L	50		8260B	Total/NA
Ethylbenzene	990		25		ug/L	50		8260B	Total/NA
Isopropylbenzene	68		25		ug/L	50		8260B	Total/NA
Naphthalene	360		50		ug/L	50		8260B	Total/NA
N-Propylbenzene	130		25		ug/L	50		8260B	Total/NA
Toluene	2000		25		ug/L	50		8260B	Total/NA
Xylenes, Total	4900		50		ug/L	50		8260B	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 720-82231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	0.55		0.50		ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.70		0.50		ug/L	1		8260B	Total/NA
Ferrous Iron	0.99	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-6R

Date Collected: 09/27/17 14:00

Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-1

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	75		50		ug/L			10/04/17 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	109		76 - 132					10/04/17 11:45	1
<i>4-Bromofluorobenzene (Surr)</i>	92		80 - 120					10/04/17 11:45	1
<i>Toluene-d8 (Surr)</i>	102		80 - 128					10/04/17 11:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,1-Dichloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,1-Dichloroethene	ND		0.50		ug/L			10/04/17 11:45	1
1,1-Dichloropropene	ND		0.50		ug/L			10/04/17 11:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/17 11:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/17 11:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/17 11:45	1
1,2,4-Trimethylbenzene	0.65		0.50		ug/L			10/04/17 11:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/04/17 11:45	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			10/04/17 11:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/04/17 11:45	1
1,2-Dichloroethane	ND		0.50		ug/L			10/04/17 11:45	1
1,2-Dichloropropane	ND		0.50		ug/L			10/04/17 11:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/04/17 11:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/04/17 11:45	1
1,3-Dichloropropane	ND		0.50		ug/L			10/04/17 11:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/04/17 11:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/17 11:45	1
2-Chlorotoluene	ND		0.50		ug/L			10/04/17 11:45	1
4-Chlorotoluene	ND		0.50		ug/L			10/04/17 11:45	1
Benzene	ND		0.50		ug/L			10/04/17 11:45	1
Bromobenzene	ND		0.50		ug/L			10/04/17 11:45	1
Bromochloromethane	ND		0.50		ug/L			10/04/17 11:45	1
Bromodichloromethane	ND		0.50		ug/L			10/04/17 11:45	1
Bromoform	ND		1.0		ug/L			10/04/17 11:45	1
Bromomethane	ND		0.50		ug/L			10/04/17 11:45	1
Carbon tetrachloride	ND		0.50		ug/L			10/04/17 11:45	1
Chlorobenzene	ND		0.50		ug/L			10/04/17 11:45	1
Chloroethane	ND		1.0		ug/L			10/04/17 11:45	1
Chloroform	ND		0.50		ug/L			10/04/17 11:45	1
Chloromethane	ND		0.50		ug/L			10/04/17 11:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/04/17 11:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/04/17 11:45	1
Dibromochloromethane	ND		0.50		ug/L			10/04/17 11:45	1
Dibromomethane	ND		0.50		ug/L			10/04/17 11:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/17 11:45	1
Ethylbenzene	ND		0.50		ug/L			10/04/17 11:45	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-6R

Lab Sample ID: 720-82231-1

Date Collected: 09/27/17 14:00

Matrix: Water

Date Received: 09/27/17 16:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.50		ug/L			10/04/17 11:45	1
Isopropylbenzene	1.3		0.50		ug/L			10/04/17 11:45	1
Methylene Chloride	ND		2.0		ug/L			10/04/17 11:45	1
Naphthalene	1.8		1.0		ug/L			10/04/17 11:45	1
n-Butylbenzene	ND		1.0		ug/L			10/04/17 11:45	1
N-Propylbenzene	ND		0.50		ug/L			10/04/17 11:45	1
p-Isopropyltoluene	ND		0.50		ug/L			10/04/17 11:45	1
Styrene	ND		0.50		ug/L			10/04/17 11:45	1
sec-Butylbenzene	1.5		0.50		ug/L			10/04/17 11:45	1
tert-Butylbenzene	ND		0.50		ug/L			10/04/17 11:45	1
Tetrachloroethene	ND		0.50		ug/L			10/04/17 11:45	1
Toluene	ND		0.50		ug/L			10/04/17 11:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/04/17 11:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/04/17 11:45	1
Trichloroethene	ND		0.50		ug/L			10/04/17 11:45	1
Trichlorofluoromethane	ND		0.50		ug/L			10/04/17 11:45	1
Vinyl chloride	ND		0.50		ug/L			10/04/17 11:45	1
Xylenes, Total	1.7		1.0		ug/L			10/04/17 11:45	1
Carbon disulfide	ND		1.0		ug/L			10/04/17 11:45	1
Acetone	ND		20		ug/L			10/04/17 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/04/17 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			10/04/17 11:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			10/04/17 11:45	1
2-Hexanone	ND		5.0		ug/L			10/04/17 11:45	1
2-Butanone (MEK)	ND		5.0		ug/L			10/04/17 11:45	1
Vinyl acetate	ND		4.0		ug/L			10/04/17 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		10/04/17 11:45	1
Dibromofluoromethane (Surr)	109		76 - 132		10/04/17 11:45	1
Toluene-d8 (Surr)	102		80 - 128		10/04/17 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.28	HF	0.10		mg/L			09/28/17 15:13	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-14
Date Collected: 09/27/17 14:10
Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-2
Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	23000		2500		ug/L			10/03/17 23:16	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	106		76 - 132					10/03/17 23:16	50
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120					10/03/17 23:16	50
<i>Toluene-d8 (Surr)</i>	101		80 - 128					10/03/17 23:16	50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			10/03/17 23:16	50
1,1,1-Trichloroethane	ND		25		ug/L			10/03/17 23:16	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/03/17 23:16	50
1,1,2-Trichloroethane	ND		25		ug/L			10/03/17 23:16	50
1,1-Dichloroethane	ND		25		ug/L			10/03/17 23:16	50
1,1-Dichloroethene	ND		25		ug/L			10/03/17 23:16	50
1,1-Dichloropropene	ND		25		ug/L			10/03/17 23:16	50
1,2,3-Trichlorobenzene	ND		50		ug/L			10/03/17 23:16	50
1,2,3-Trichloropropane	ND		50		ug/L			10/03/17 23:16	50
1,2,4-Trichlorobenzene	ND		50		ug/L			10/03/17 23:16	50
1,2,4-Trimethylbenzene	780		25		ug/L			10/03/17 23:16	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			10/03/17 23:16	50
1,2-Dibromoethane (EDB)	ND		25		ug/L			10/03/17 23:16	50
1,2-Dichlorobenzene	ND		25		ug/L			10/03/17 23:16	50
1,2-Dichloroethane	ND		25		ug/L			10/03/17 23:16	50
1,2-Dichloropropane	ND		25		ug/L			10/03/17 23:16	50
1,3,5-Trimethylbenzene	160		25		ug/L			10/03/17 23:16	50
1,3-Dichlorobenzene	ND		25		ug/L			10/03/17 23:16	50
1,3-Dichloropropane	ND		25		ug/L			10/03/17 23:16	50
1,4-Dichlorobenzene	ND		25		ug/L			10/03/17 23:16	50
2,2-Dichloropropane	ND		50		ug/L			10/03/17 23:16	50
2-Chlorotoluene	ND		25		ug/L			10/03/17 23:16	50
4-Chlorotoluene	ND		25		ug/L			10/03/17 23:16	50
Benzene	880		25		ug/L			10/03/17 23:16	50
Bromobenzene	ND		25		ug/L			10/03/17 23:16	50
Bromochloromethane	ND		25		ug/L			10/03/17 23:16	50
Bromodichloromethane	ND		25		ug/L			10/03/17 23:16	50
Bromoform	ND		50		ug/L			10/03/17 23:16	50
Bromomethane	ND		25		ug/L			10/03/17 23:16	50
Carbon tetrachloride	ND		25		ug/L			10/03/17 23:16	50
Chlorobenzene	ND		25		ug/L			10/03/17 23:16	50
Chloroethane	ND		50		ug/L			10/03/17 23:16	50
Chloroform	ND		25		ug/L			10/03/17 23:16	50
Chloromethane	ND		25		ug/L			10/03/17 23:16	50
cis-1,2-Dichloroethene	ND		25		ug/L			10/03/17 23:16	50
cis-1,3-Dichloropropene	ND		25		ug/L			10/03/17 23:16	50
Dibromochloromethane	ND		25		ug/L			10/03/17 23:16	50
Dibromomethane	ND		25		ug/L			10/03/17 23:16	50
Dichlorodifluoromethane	ND		50		ug/L			10/03/17 23:16	50
Ethylbenzene	990		25		ug/L			10/03/17 23:16	50

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-14

Lab Sample ID: 720-82231-2

Date Collected: 09/27/17 14:10

Matrix: Water

Date Received: 09/27/17 16:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		25		ug/L			10/03/17 23:16	50
Isopropylbenzene	68		25		ug/L			10/03/17 23:16	50
Methylene Chloride	ND		100		ug/L			10/03/17 23:16	50
Naphthalene	360		50		ug/L			10/03/17 23:16	50
n-Butylbenzene	ND		50		ug/L			10/03/17 23:16	50
N-Propylbenzene	130		25		ug/L			10/03/17 23:16	50
p-Isopropyltoluene	ND		25		ug/L			10/03/17 23:16	50
Styrene	ND		25		ug/L			10/03/17 23:16	50
sec-Butylbenzene	ND		25		ug/L			10/03/17 23:16	50
tert-Butylbenzene	ND		25		ug/L			10/03/17 23:16	50
Tetrachloroethene	ND		25		ug/L			10/03/17 23:16	50
Toluene	2000		25		ug/L			10/03/17 23:16	50
trans-1,2-Dichloroethene	ND		25		ug/L			10/03/17 23:16	50
trans-1,3-Dichloropropene	ND		25		ug/L			10/03/17 23:16	50
Trichloroethene	ND		25		ug/L			10/03/17 23:16	50
Trichlorofluoromethane	ND		25		ug/L			10/03/17 23:16	50
Vinyl chloride	ND		25		ug/L			10/03/17 23:16	50
Xylenes, Total	4900		50		ug/L			10/03/17 23:16	50
Carbon disulfide	ND		50		ug/L			10/03/17 23:16	50
Acetone	ND		1000		ug/L			10/03/17 23:16	50
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			10/03/17 23:16	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100		ug/L			10/03/17 23:16	50
Methyl-t-Butyl Ether (MTBE)	ND		25		ug/L			10/03/17 23:16	50
2-Hexanone	ND		250		ug/L			10/03/17 23:16	50
2-Butanone (MEK)	ND		250		ug/L			10/03/17 23:16	50
Vinyl acetate	ND		200		ug/L			10/03/17 23:16	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		10/03/17 23:16	50
Dibromofluoromethane (Surr)	106		76 - 132		10/03/17 23:16	50
Toluene-d8 (Surr)	101		80 - 128		10/03/17 23:16	50

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-4R

Date Collected: 09/27/17 14:25

Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-3

Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/03/17 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		76 - 132					10/03/17 21:24	1
4-Bromofluorobenzene (Surr)	88		80 - 120					10/03/17 21:24	1
Toluene-d8 (Surr)	103		80 - 128					10/03/17 21:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,1-Dichloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,1-Dichloroethene	ND		0.50		ug/L			10/03/17 21:24	1
1,1-Dichloropropene	ND		0.50		ug/L			10/03/17 21:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/17 21:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/17 21:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/17 21:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/03/17 21:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/03/17 21:24	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			10/03/17 21:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/03/17 21:24	1
1,2-Dichloroethane	ND		0.50		ug/L			10/03/17 21:24	1
1,2-Dichloropropane	ND		0.50		ug/L			10/03/17 21:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/03/17 21:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/03/17 21:24	1
1,3-Dichloropropane	ND		0.50		ug/L			10/03/17 21:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/03/17 21:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/17 21:24	1
2-Chlorotoluene	ND		0.50		ug/L			10/03/17 21:24	1
4-Chlorotoluene	ND		0.50		ug/L			10/03/17 21:24	1
Benzene	1.3		0.50		ug/L			10/03/17 21:24	1
Bromobenzene	ND		0.50		ug/L			10/03/17 21:24	1
Bromochloromethane	ND		0.50		ug/L			10/03/17 21:24	1
Bromodichloromethane	ND		0.50		ug/L			10/03/17 21:24	1
Bromoform	ND		1.0		ug/L			10/03/17 21:24	1
Bromomethane	ND		0.50		ug/L			10/03/17 21:24	1
Carbon tetrachloride	ND		0.50		ug/L			10/03/17 21:24	1
Chlorobenzene	ND		0.50		ug/L			10/03/17 21:24	1
Chloroethane	ND		1.0		ug/L			10/03/17 21:24	1
Chloroform	ND		0.50		ug/L			10/03/17 21:24	1
Chloromethane	ND		0.50		ug/L			10/03/17 21:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/03/17 21:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/03/17 21:24	1
Dibromochloromethane	ND		0.50		ug/L			10/03/17 21:24	1
Dibromomethane	ND		0.50		ug/L			10/03/17 21:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/17 21:24	1
Ethylbenzene	0.55		0.50		ug/L			10/03/17 21:24	1
Hexachlorobutadiene	ND		0.50		ug/L			10/03/17 21:24	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-4R

Lab Sample ID: 720-82231-3

Date Collected: 09/27/17 14:25

Matrix: Water

Date Received: 09/27/17 16:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50		ug/L			10/03/17 21:24	1
Methylene Chloride	ND		2.0		ug/L			10/03/17 21:24	1
Naphthalene	ND		1.0		ug/L			10/03/17 21:24	1
n-Butylbenzene	ND		1.0		ug/L			10/03/17 21:24	1
N-Propylbenzene	ND		0.50		ug/L			10/03/17 21:24	1
p-Isopropyltoluene	ND		0.50		ug/L			10/03/17 21:24	1
Styrene	ND		0.50		ug/L			10/03/17 21:24	1
sec-Butylbenzene	0.70		0.50		ug/L			10/03/17 21:24	1
tert-Butylbenzene	ND		0.50		ug/L			10/03/17 21:24	1
Tetrachloroethene	ND		0.50		ug/L			10/03/17 21:24	1
Toluene	ND		0.50		ug/L			10/03/17 21:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/03/17 21:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/03/17 21:24	1
Trichloroethene	ND		0.50		ug/L			10/03/17 21:24	1
Trichlorofluoromethane	ND		0.50		ug/L			10/03/17 21:24	1
Vinyl chloride	ND		0.50		ug/L			10/03/17 21:24	1
Xylenes, Total	ND		1.0		ug/L			10/03/17 21:24	1
Carbon disulfide	ND		1.0		ug/L			10/03/17 21:24	1
Acetone	ND		20		ug/L			10/03/17 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/03/17 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			10/03/17 21:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			10/03/17 21:24	1
2-Hexanone	ND		5.0		ug/L			10/03/17 21:24	1
2-Butanone (MEK)	ND		5.0		ug/L			10/03/17 21:24	1
Vinyl acetate	ND		4.0		ug/L			10/03/17 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		10/03/17 21:24	1
Dibromofluoromethane (Surr)	104		76 - 132		10/03/17 21:24	1
Toluene-d8 (Surr)	103		80 - 128		10/03/17 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.99	HF	0.10		mg/L			09/28/17 15:13	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-432810/4
Matrix: Water
Analysis Batch: 432810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,1-Dichloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,1-Dichloroethene	ND		0.50		ug/L			10/03/17 19:59	1
1,1-Dichloropropene	ND		0.50		ug/L			10/03/17 19:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/17 19:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/17 19:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/17 19:59	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/03/17 19:59	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			10/03/17 19:59	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/03/17 19:59	1
1,2-Dichloroethane	ND		0.50		ug/L			10/03/17 19:59	1
1,2-Dichloropropane	ND		0.50		ug/L			10/03/17 19:59	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/03/17 19:59	1
1,3-Dichloropropane	ND		0.50		ug/L			10/03/17 19:59	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/03/17 19:59	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/17 19:59	1
2-Chlorotoluene	ND		0.50		ug/L			10/03/17 19:59	1
4-Chlorotoluene	ND		0.50		ug/L			10/03/17 19:59	1
Benzene	ND		0.50		ug/L			10/03/17 19:59	1
Bromobenzene	ND		0.50		ug/L			10/03/17 19:59	1
Bromochloromethane	ND		0.50		ug/L			10/03/17 19:59	1
Bromodichloromethane	ND		0.50		ug/L			10/03/17 19:59	1
Bromoform	ND		1.0		ug/L			10/03/17 19:59	1
Bromomethane	ND		0.50		ug/L			10/03/17 19:59	1
Carbon tetrachloride	ND		0.50		ug/L			10/03/17 19:59	1
Chlorobenzene	ND		0.50		ug/L			10/03/17 19:59	1
Chloroethane	ND		1.0		ug/L			10/03/17 19:59	1
Chloroform	ND		0.50		ug/L			10/03/17 19:59	1
Chloromethane	ND		0.50		ug/L			10/03/17 19:59	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/03/17 19:59	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			10/03/17 19:59	1
Dibromochloromethane	ND		0.50		ug/L			10/03/17 19:59	1
Dibromomethane	ND		0.50		ug/L			10/03/17 19:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/17 19:59	1
Ethylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
Hexachlorobutadiene	ND		0.50		ug/L			10/03/17 19:59	1
Isopropylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
Methylene Chloride	ND		2.0		ug/L			10/03/17 19:59	1
Naphthalene	ND		1.0		ug/L			10/03/17 19:59	1
n-Butylbenzene	ND		1.0		ug/L			10/03/17 19:59	1
N-Propylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
p-Isopropyltoluene	ND		0.50		ug/L			10/03/17 19:59	1
Styrene	ND		0.50		ug/L			10/03/17 19:59	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-432810/4
Matrix: Water
Analysis Batch: 432810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
tert-Butylbenzene	ND		0.50		ug/L			10/03/17 19:59	1
Tetrachloroethene	ND		0.50		ug/L			10/03/17 19:59	1
Toluene	ND		0.50		ug/L			10/03/17 19:59	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/03/17 19:59	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/03/17 19:59	1
Trichloroethene	ND		0.50		ug/L			10/03/17 19:59	1
Trichlorofluoromethane	ND		0.50		ug/L			10/03/17 19:59	1
Vinyl chloride	ND		0.50		ug/L			10/03/17 19:59	1
Xylenes, Total	ND		1.0		ug/L			10/03/17 19:59	1
Carbon disulfide	ND		1.0		ug/L			10/03/17 19:59	1
Acetone	ND		20		ug/L			10/03/17 19:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/03/17 19:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			10/03/17 19:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			10/03/17 19:59	1
2-Hexanone	ND		5.0		ug/L			10/03/17 19:59	1
2-Butanone (MEK)	ND		5.0		ug/L			10/03/17 19:59	1
Vinyl acetate	ND		4.0		ug/L			10/03/17 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		10/03/17 19:59	1
Dibromofluoromethane (Surr)	109		76 - 132		10/03/17 19:59	1
Toluene-d8 (Surr)	103		80 - 128		10/03/17 19:59	1

Lab Sample ID: LCS 440-432810/5
Matrix: Water
Analysis Batch: 432810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		109	60 - 141
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	20.7		ug/L		83	63 - 130
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	23.6		ug/L		95	64 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	60 - 140
1,2,3-Trichloropropane	25.0	20.1		ug/L		80	63 - 130
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	60 - 140
1,2,4-Trimethylbenzene	25.0	21.6		ug/L		86	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	25.0	26.6		ug/L		106	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		104	57 - 138
1,2-Dichloropropane	25.0	22.6		ug/L		90	67 - 130
1,3,5-Trimethylbenzene	25.0	22.2		ug/L		89	70 - 136
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-432810/5

Matrix: Water

Analysis Batch: 432810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		104	68 - 141
2-Chlorotoluene	25.0	21.4		ug/L		86	70 - 130
4-Chlorotoluene	25.0	21.6		ug/L		86	70 - 130
Benzene	25.0	23.6		ug/L		94	68 - 130
Bromobenzene	25.0	23.8		ug/L		95	70 - 130
Bromochloromethane	25.0	27.2		ug/L		109	70 - 130
Bromodichloromethane	25.0	26.4		ug/L		106	70 - 132
Bromoform	25.0	28.1		ug/L		112	60 - 148
Bromomethane	25.0	24.8		ug/L		99	64 - 139
Carbon tetrachloride	25.0	27.0		ug/L		108	60 - 150
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	20.4		ug/L		82	64 - 135
Chloroform	25.0	25.5		ug/L		102	70 - 130
Chloromethane	25.0	21.2		ug/L		85	47 - 140
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 133
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 133
Dibromochloromethane	25.0	28.0		ug/L		112	69 - 145
Dibromomethane	25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	23.5		ug/L		94	29 - 150
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	26.1		ug/L		104	10 - 150
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 136
m,p-Xylene	25.0	24.6		ug/L		98	70 - 130
Methylene Chloride	25.0	21.3		ug/L		85	52 - 130
Naphthalene	25.0	23.4		ug/L		94	60 - 140
n-Butylbenzene	25.0	23.6		ug/L		94	65 - 150
N-Propylbenzene	25.0	22.1		ug/L		88	67 - 139
o-Xylene	25.0	26.5		ug/L		106	70 - 130
p-Isopropyltoluene	25.0	21.9		ug/L		88	70 - 132
Styrene	25.0	25.1		ug/L		100	70 - 134
sec-Butylbenzene	25.0	22.4		ug/L		90	70 - 138
tert-Butylbenzene	25.0	21.8		ug/L		87	70 - 130
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130
Toluene	25.0	24.6		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 132
Trichloroethene	25.0	24.2		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	27.2		ug/L		109	60 - 150
Vinyl chloride	25.0	21.7		ug/L		87	59 - 133
Carbon disulfide	25.0	23.7		ug/L		95	52 - 136
Acetone	25.0	21.5		ug/L		86	10 - 150
4-Methyl-2-pentanone (MIBK)	25.0	21.6		ug/L		86	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	24.8		ug/L		99	63 - 131
2-Hexanone	25.0	18.6		ug/L		75	10 - 150
2-Butanone (MEK)	25.0	19.5		ug/L		78	44 - 150
Vinyl acetate	25.0	26.1		ug/L		104	48 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-432810/5
Matrix: Water
Analysis Batch: 432810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	107		76 - 132
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: 720-82231-3 MS
Matrix: Water
Analysis Batch: 432810

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	60 - 149
1,1,1-Trichloroethane	ND		25.0	28.6		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	21.1		ug/L		85	63 - 130
1,1,2-Trichloroethane	ND		25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethane	ND		25.0	25.9		ug/L		103	65 - 130
1,1-Dichloroethene	ND		25.0	26.1		ug/L		104	70 - 130
1,1-Dichloropropene	ND		25.0	27.2		ug/L		109	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140
1,2,3-Trichloropropane	ND		25.0	21.3		ug/L		85	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		105	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	22.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	20.3		ug/L		81	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	25.0		ug/L		100	70 - 131
1,2-Dichlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	ND		25.0	27.0		ug/L		108	56 - 146
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	22.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.7		ug/L		95	70 - 130
1,3-Dichloropropane	ND		25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.1		ug/L		96	70 - 130
2,2-Dichloropropane	ND		25.0	29.7		ug/L		119	69 - 138
2-Chlorotoluene	ND		25.0	22.2		ug/L		89	70 - 130
4-Chlorotoluene	ND		25.0	22.0		ug/L		88	70 - 130
Benzene	1.3		25.0	26.4		ug/L		100	66 - 130
Bromobenzene	ND		25.0	23.3		ug/L		93	70 - 130
Bromochloromethane	ND		25.0	26.4		ug/L		106	70 - 130
Bromodichloromethane	ND		25.0	28.1		ug/L		112	70 - 138
Bromoform	ND		25.0	28.0		ug/L		112	59 - 150
Bromomethane	ND		25.0	25.1		ug/L		100	62 - 131
Carbon tetrachloride	ND		25.0	30.6		ug/L		122	60 - 150
Chlorobenzene	ND		25.0	24.1		ug/L		96	70 - 130
Chloroethane	ND		25.0	22.6		ug/L		90	68 - 130
Chloroform	ND		25.0	25.5		ug/L		102	70 - 130
Chloromethane	ND		25.0	22.5		ug/L		90	39 - 144
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		25.0	24.3		ug/L		97	70 - 133
Dibromochloromethane	ND		25.0	26.8		ug/L		107	70 - 148
Dibromomethane	ND		25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	26.5		ug/L		106	25 - 142

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-82231-3 MS
Matrix: Water
Analysis Batch: 432810

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	0.55		25.0	25.1		ug/L		98	70 - 130
Hexachlorobutadiene	ND		25.0	28.0		ug/L		112	10 - 150
Isopropylbenzene	ND		25.0	25.2		ug/L		100	70 - 132
m,p-Xylene	ND		25.0	25.1		ug/L		100	70 - 133
Methylene Chloride	ND		25.0	23.5		ug/L		94	52 - 130
Naphthalene	ND		25.0	23.8		ug/L		95	60 - 140
n-Butylbenzene	ND		25.0	24.5		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	23.2		ug/L		93	66 - 135
o-Xylene	ND		25.0	26.0		ug/L		104	70 - 133
p-Isopropyltoluene	ND		25.0	23.7		ug/L		95	70 - 130
Styrene	ND		25.0	24.1		ug/L		96	29 - 150
sec-Butylbenzene	0.70		25.0	24.2		ug/L		94	67 - 134
tert-Butylbenzene	ND		25.0	22.9		ug/L		92	70 - 130
Tetrachloroethene	ND		25.0	26.5		ug/L		106	70 - 137
Toluene	ND		25.0	24.0		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.0		ug/L		100	70 - 138
Trichloroethene	ND		25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	ND		25.0	30.2		ug/L		121	60 - 150
Vinyl chloride	ND		25.0	23.6		ug/L		95	50 - 137
Carbon disulfide	ND		25.0	26.2		ug/L		105	49 - 140
Acetone	ND		25.0	23.3		ug/L		93	10 - 150
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.7		ug/L		87	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.9		ug/L		100	70 - 130
2-Hexanone	ND		25.0	20.4		ug/L		81	10 - 150
2-Butanone (MEK)	ND		25.0	18.6		ug/L		74	48 - 140
Vinyl acetate	ND		25.0	30.5		ug/L		122	23 - 150
		MS MS							
Surrogate		%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)		88		80 - 120					
Dibromofluoromethane (Surr)		107		76 - 132					
Toluene-d8 (Surr)		96		80 - 128					

Lab Sample ID: 720-82231-3 MSD
Matrix: Water
Analysis Batch: 432810

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	60 - 149	4	20
1,1,1-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	63 - 130	4	30
1,1,2-Trichloroethane	ND		25.0	24.5		ug/L		98	70 - 130	1	25
1,1-Dichloroethane	ND		25.0	26.3		ug/L		105	65 - 130	2	20
1,1-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloropropene	ND		25.0	26.7		ug/L		107	64 - 130	2	20
1,2,3-Trichlorobenzene	ND		25.0	27.4		ug/L		110	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 130	4	30
1,2,4-Trichlorobenzene	ND		25.0	26.6		ug/L		106	60 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-82231-3 MSD

Matrix: Water

Analysis Batch: 432810

Client Sample ID: MW-4R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	ND		25.0	23.4		ug/L		93	70 - 130	5	25
1,2-Dibromo-3-Chloropropane	ND		25.0	22.7		ug/L		91	48 - 140	11	30
1,2-Dibromoethane (EDB)	ND		25.0	26.4		ug/L		106	70 - 131	6	25
1,2-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
1,2-Dichloroethane	ND		25.0	27.1		ug/L		108	56 - 146	0	20
1,2-Dichloropropane	ND		25.0	24.7		ug/L		99	69 - 130	2	20
1,3,5-Trimethylbenzene	ND		25.0	23.4		ug/L		93	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130	2	20
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130	4	25
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	3	20
2,2-Dichloropropane	ND		25.0	28.8		ug/L		115	69 - 138	3	25
2-Chlorotoluene	ND		25.0	22.8		ug/L		91	70 - 130	3	20
4-Chlorotoluene	ND		25.0	22.5		ug/L		90	70 - 130	2	20
Benzene	1.3		25.0	26.0		ug/L		99	66 - 130	2	20
Bromobenzene	ND		25.0	24.1		ug/L		96	70 - 130	3	20
Bromochloromethane	ND		25.0	27.4		ug/L		110	70 - 130	4	25
Bromodichloromethane	ND		25.0	27.5		ug/L		110	70 - 138	2	20
Bromoform	ND		25.0	29.1		ug/L		116	59 - 150	4	25
Bromomethane	ND		25.0	24.2		ug/L		97	62 - 131	3	25
Carbon tetrachloride	ND		25.0	29.3		ug/L		117	60 - 150	4	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	6	20
Chloroethane	ND		25.0	23.0		ug/L		92	68 - 130	2	25
Chloroform	ND		25.0	25.8		ug/L		103	70 - 130	1	20
Chloromethane	ND		25.0	23.6		ug/L		95	39 - 144	5	25
cis-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	26.2		ug/L		105	70 - 133	7	20
Dibromochloromethane	ND		25.0	27.4		ug/L		109	70 - 148	2	25
Dibromomethane	ND		25.0	26.2		ug/L		105	70 - 130	0	25
Dichlorodifluoromethane	ND		25.0	25.7		ug/L		103	25 - 142	3	30
Ethylbenzene	0.55		25.0	25.3		ug/L		99	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	27.5		ug/L		110	10 - 150	2	20
Isopropylbenzene	ND		25.0	25.4		ug/L		101	70 - 132	1	20
m,p-Xylene	ND		25.0	25.6		ug/L		103	70 - 133	2	25
Methylene Chloride	ND		25.0	23.2		ug/L		93	52 - 130	1	20
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	5	30
n-Butylbenzene	ND		25.0	24.8		ug/L		99	61 - 149	1	20
N-Propylbenzene	ND		25.0	23.9		ug/L		96	66 - 135	3	20
o-Xylene	ND		25.0	26.4		ug/L		106	70 - 133	1	20
p-Isopropyltoluene	ND		25.0	23.8		ug/L		95	70 - 130	0	20
Styrene	ND		25.0	25.1		ug/L		101	29 - 150	4	35
sec-Butylbenzene	0.70		25.0	24.9		ug/L		97	67 - 134	3	20
tert-Butylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	4	20
Tetrachloroethene	ND		25.0	25.6		ug/L		102	70 - 137	3	20
Toluene	ND		25.0	24.8		ug/L		99	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	8	20
trans-1,3-Dichloropropene	ND		25.0	26.2		ug/L		105	70 - 138	5	25
Trichloroethene	ND		25.0	24.4		ug/L		98	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	29.3		ug/L		117	60 - 150	3	25

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-82231-3 MSD
Matrix: Water
Analysis Batch: 432810

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	ND		25.0	23.7		ug/L		95	50 - 137	0	30
Carbon disulfide	ND		25.0	25.0		ug/L		100	49 - 140	5	20
Acetone	ND		25.0	20.8		ug/L		83	10 - 150	11	35
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.5		ug/L		86	52 - 150	1	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.9		ug/L		103	70 - 130	4	25
2-Hexanone	ND		25.0	20.4		ug/L		81	10 - 150	0	35
2-Butanone (MEK)	ND		25.0	21.2		ug/L		85	48 - 140	13	40
Vinyl acetate	ND		25.0	30.3		ug/L		121	23 - 150	0	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: MB 440-432869/5
Matrix: Water
Analysis Batch: 432869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,1-Dichloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,1-Dichloroethene	ND		0.50		ug/L			10/04/17 08:56	1
1,1-Dichloropropene	ND		0.50		ug/L			10/04/17 08:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/17 08:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/17 08:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/17 08:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/04/17 08:56	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			10/04/17 08:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/04/17 08:56	1
1,2-Dichloroethane	ND		0.50		ug/L			10/04/17 08:56	1
1,2-Dichloropropane	ND		0.50		ug/L			10/04/17 08:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/04/17 08:56	1
1,3-Dichloropropane	ND		0.50		ug/L			10/04/17 08:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/04/17 08:56	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/17 08:56	1
2-Chlorotoluene	ND		0.50		ug/L			10/04/17 08:56	1
4-Chlorotoluene	ND		0.50		ug/L			10/04/17 08:56	1
Benzene	ND		0.50		ug/L			10/04/17 08:56	1
Bromobenzene	ND		0.50		ug/L			10/04/17 08:56	1
Bromochloromethane	ND		0.50		ug/L			10/04/17 08:56	1
Bromodichloromethane	ND		0.50		ug/L			10/04/17 08:56	1
Bromoform	ND		1.0		ug/L			10/04/17 08:56	1
Bromomethane	ND		0.50		ug/L			10/04/17 08:56	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-432869/5

Matrix: Water

Analysis Batch: 432869

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	ND		0.50		ug/L			10/04/17 08:56	1
Chlorobenzene	ND		0.50		ug/L			10/04/17 08:56	1
Chloroethane	ND		1.0		ug/L			10/04/17 08:56	1
Chloroform	ND		0.50		ug/L			10/04/17 08:56	1
Chloromethane	ND		0.50		ug/L			10/04/17 08:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/04/17 08:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/04/17 08:56	1
Dibromochloromethane	ND		0.50		ug/L			10/04/17 08:56	1
Dibromomethane	ND		0.50		ug/L			10/04/17 08:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/17 08:56	1
Ethylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
Hexachlorobutadiene	ND		0.50		ug/L			10/04/17 08:56	1
Isopropylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
Methylene Chloride	ND		2.0		ug/L			10/04/17 08:56	1
Naphthalene	ND		1.0		ug/L			10/04/17 08:56	1
n-Butylbenzene	ND		1.0		ug/L			10/04/17 08:56	1
N-Propylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
p-Isopropyltoluene	ND		0.50		ug/L			10/04/17 08:56	1
Styrene	ND		0.50		ug/L			10/04/17 08:56	1
sec-Butylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
tert-Butylbenzene	ND		0.50		ug/L			10/04/17 08:56	1
Tetrachloroethene	ND		0.50		ug/L			10/04/17 08:56	1
Toluene	ND		0.50		ug/L			10/04/17 08:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/04/17 08:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/04/17 08:56	1
Trichloroethene	ND		0.50		ug/L			10/04/17 08:56	1
Trichlorofluoromethane	ND		0.50		ug/L			10/04/17 08:56	1
Vinyl chloride	ND		0.50		ug/L			10/04/17 08:56	1
Xylenes, Total	ND		1.0		ug/L			10/04/17 08:56	1
Carbon disulfide	ND		1.0		ug/L			10/04/17 08:56	1
Acetone	ND		20		ug/L			10/04/17 08:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			10/04/17 08:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			10/04/17 08:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			10/04/17 08:56	1
2-Hexanone	ND		5.0		ug/L			10/04/17 08:56	1
2-Butanone (MEK)	ND		5.0		ug/L			10/04/17 08:56	1
Vinyl acetate	ND		4.0		ug/L			10/04/17 08:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		80 - 120		10/04/17 08:56	1
Dibromofluoromethane (Surr)	113		76 - 132		10/04/17 08:56	1
Toluene-d8 (Surr)	102		80 - 128		10/04/17 08:56	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-432869/6

Matrix: Water

Analysis Batch: 432869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		101	60 - 141
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	25.0	20.6		ug/L		83	63 - 130
1,1,2-Trichloroethane	25.0	21.8		ug/L		87	70 - 130
1,1-Dichloroethane	25.0	22.1		ug/L		88	64 - 130
1,1-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	60 - 140
1,2,3-Trichloropropane	25.0	21.7		ug/L		87	63 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	60 - 140
1,2,4-Trimethylbenzene	25.0	20.6		ug/L		82	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	23.1		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	25.7		ug/L		103	57 - 138
1,2-Dichloropropane	25.0	22.6		ug/L		90	67 - 130
1,3,5-Trimethylbenzene	25.0	20.8		ug/L		83	70 - 136
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	68 - 141
2-Chlorotoluene	25.0	19.7		ug/L		79	70 - 130
4-Chlorotoluene	25.0	20.6		ug/L		82	70 - 130
Benzene	25.0	23.2		ug/L		93	68 - 130
Bromobenzene	25.0	22.9		ug/L		92	70 - 130
Bromochloromethane	25.0	25.7		ug/L		103	70 - 130
Bromodichloromethane	25.0	26.5		ug/L		106	70 - 132
Bromoform	25.0	27.8		ug/L		111	60 - 148
Bromomethane	25.0	21.8		ug/L		87	64 - 139
Carbon tetrachloride	25.0	26.9		ug/L		108	60 - 150
Chlorobenzene	25.0	23.1		ug/L		92	70 - 130
Chloroethane	25.0	19.6		ug/L		79	64 - 135
Chloroform	25.0	24.1		ug/L		97	70 - 130
Chloromethane	25.0	18.8		ug/L		75	47 - 140
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 133
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	70 - 133
Dibromochloromethane	25.0	25.8		ug/L		103	69 - 145
Dibromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	20.7		ug/L		83	29 - 150
Ethylbenzene	25.0	21.9		ug/L		88	70 - 130
Hexachlorobutadiene	25.0	25.3		ug/L		101	10 - 150
Isopropylbenzene	25.0	22.9		ug/L		92	70 - 136
m,p-Xylene	25.0	23.0		ug/L		92	70 - 130
Methylene Chloride	25.0	21.8		ug/L		87	52 - 130
Naphthalene	25.0	24.4		ug/L		98	60 - 140
n-Butylbenzene	25.0	21.8		ug/L		87	65 - 150
N-Propylbenzene	25.0	21.0		ug/L		84	67 - 139
o-Xylene	25.0	24.6		ug/L		98	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-432869/6
Matrix: Water
Analysis Batch: 432869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	25.0	20.8		ug/L		83	70 - 132
Styrene	25.0	23.2		ug/L		93	70 - 134
sec-Butylbenzene	25.0	21.0		ug/L		84	70 - 138
tert-Butylbenzene	25.0	20.8		ug/L		83	70 - 130
Tetrachloroethene	25.0	23.6		ug/L		94	70 - 130
Toluene	25.0	22.1		ug/L		89	70 - 130
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 132
Trichloroethene	25.0	21.8		ug/L		87	70 - 130
Trichlorofluoromethane	25.0	26.5		ug/L		106	60 - 150
Vinyl chloride	25.0	19.5		ug/L		78	59 - 133
Carbon disulfide	25.0	21.9		ug/L		88	52 - 136
Acetone	25.0	20.6		ug/L		82	10 - 150
4-Methyl-2-pentanone (MIBK)	25.0	21.8		ug/L		87	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	24.6		ug/L		98	63 - 131
2-Hexanone	25.0	20.6		ug/L		82	10 - 150
2-Butanone (MEK)	25.0	19.4		ug/L		78	44 - 150
Vinyl acetate	25.0	28.8		ug/L		115	48 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	107		76 - 132
Toluene-d8 (Surr)	94		80 - 128

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-432811/4
Matrix: Water
Analysis Batch: 432811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/03/17 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		76 - 132		10/03/17 19:59	1
4-Bromofluorobenzene (Surr)	92		80 - 120		10/03/17 19:59	1
Toluene-d8 (Surr)	103		80 - 128		10/03/17 19:59	1

Lab Sample ID: LCS 440-432811/6
Matrix: Water
Analysis Batch: 432811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	351		ug/L		70	55 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-432811/6
Matrix: Water
Analysis Batch: 432811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	110		76 - 132
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	103		80 - 128

Lab Sample ID: 720-82231-3 MS
Matrix: Water
Analysis Batch: 432811

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	2100		ug/L		119	50 - 145

Surrogate	MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	107		76 - 132
4-Bromofluorobenzene (Surr)	88		80 - 120
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: 720-82231-3 MSD
Matrix: Water
Analysis Batch: 432811

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	2060		ug/L		117	50 - 145	2	20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	104		76 - 132
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	96		80 - 128

Lab Sample ID: MB 440-432870/5
Matrix: Water
Analysis Batch: 432870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			10/04/17 08:56	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	113		76 - 132		10/04/17 08:56	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/04/17 08:56	1
Toluene-d8 (Surr)	102		80 - 128		10/04/17 08:56	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-432870/7
Matrix: Water
Analysis Batch: 432870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	367		ug/L		73	55 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	108		76 - 132				
4-Bromofluorobenzene (Surr)	89		80 - 120				
Toluene-d8 (Surr)	98		80 - 128				

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-231111/10
Matrix: Water
Analysis Batch: 231111

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			09/28/17 15:13	1

Lab Sample ID: LCS 720-231111/11
Matrix: Water
Analysis Batch: 231111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	0.992		mg/L		99	85 - 115

Lab Sample ID: 720-82231-1 MS
Matrix: Water
Analysis Batch: 231111

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.28	HF	1.00	1.35		mg/L		108	75 - 125

Lab Sample ID: 720-82231-1 MSD
Matrix: Water
Analysis Batch: 231111

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	0.28	HF	1.00	1.37		mg/L		109	75 - 125	1	20

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

GC/MS VOA

Analysis Batch: 432810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82231-2	MW-14	Total/NA	Water	8260B	
720-82231-3	MW-4R	Total/NA	Water	8260B	
MB 440-432810/4	Method Blank	Total/NA	Water	8260B	
LCS 440-432810/5	Lab Control Sample	Total/NA	Water	8260B	
720-82231-3 MS	MW-4R	Total/NA	Water	8260B	
720-82231-3 MSD	MW-4R	Total/NA	Water	8260B	

Analysis Batch: 432811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82231-2	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-82231-3	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-432811/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-432811/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
720-82231-3 MS	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-82231-3 MSD	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 432869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82231-1	MW-6R	Total/NA	Water	8260B	
MB 440-432869/5	Method Blank	Total/NA	Water	8260B	
LCS 440-432869/6	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 432870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82231-1	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-432870/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-432870/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	

General Chemistry

Analysis Batch: 231111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-82231-1	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-82231-3	MW-4R	Total/NA	Water	SM 3500 Fe B	
MB 720-231111/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-231111/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-82231-1 MS	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-82231-1 MSD	MW-6R	Total/NA	Water	SM 3500 Fe B	

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Client Sample ID: MW-6R

Date Collected: 09/27/17 14:00

Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	432869	10/04/17 11:45	MF	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	432870	10/04/17 11:45	MF	TAL IRV
Total/NA	Analysis	SM 3500 Fe B		1	231111	09/28/17 15:13	TNL	TAL PLS

Client Sample ID: MW-14

Date Collected: 09/27/17 14:10

Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	432810	10/03/17 23:16	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	432811	10/03/17 23:16	AA	TAL IRV

Client Sample ID: MW-4R

Date Collected: 09/27/17 14:25

Date Received: 09/27/17 16:52

Lab Sample ID: 720-82231-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	432810	10/03/17 21:24	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	432811	10/03/17 21:24	AA	TAL IRV
Total/NA	Analysis	SM 3500 Fe B		1	231111	09/28/17 15:13	TNL	TAL PLS

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Laboratory: TestAmerica Pleasanton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18
Hawaii	State Program	9	N/A	01-29-18
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM S	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-82231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-82231-1	MW-6R	Water	09/27/17 14:00	09/27/17 16:52
720-82231-2	MW-14	Water	09/27/17 14:10	09/27/17 16:52
720-82231-3	MW-4R	Water	09/27/17 14:25	09/27/17 16:52

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Duong, Paloma

From: Helen Hild <hhild@ninyoandmoore.com>
Sent: Thursday, December 07, 2017 9:57 AM
To: Duong, Paloma
Cc: Peter Sims
Subject: RE: TestAmerica EDD and report files from 720-82231-1 Chun
Attachments: J82231-1 UDS Level 2 Report Final Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Paloma,

Can you please reissue the attached report with the method “**8260B/CA_LUFTMS**” for all VOC analytes rather than just TPHg? We have some analytes missing from this report that we typically include in our reports.

Thank you,
Helen

Helen Hild

Senior Staff Geologist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400 | Oakland, CA 94612
D: (510) 343-3000 (x15206) | C: (510) 221-1439 | F: (510) 343-3001
www.ninyoandmoore.com

From: Duong, Paloma [<mailto:paloma.duong@testamericainc.com>]
Sent: Wednesday, October 04, 2017 5:35 PM
To: Peter Sims <psims@ninyoandmoore.com>
Subject: TestAmerica EDD and report files from 720-82231-1 Chun

Hello,

Attached please find the EDD and report files for job 720-82231-1; Chun

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

PALOMA R DUONG

Project Manager

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [258761]
Attachments: 3

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13**
- 14



TestAmerica Pleasanton **720-82231** Chain of Custody Record

1220 Quarry Lane
 Pleasanton, CA 94566-4756
 phone 925.484.1919 fax 925.600.3002

Regulatory Program: DW NPDES RCRA Other

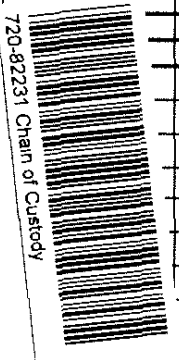
Project Manager: Peter Sims
 Tel/Fax: 510.343.3000
 Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Asha Turman
 Lab Contact: Paloma Duong
 Date: 9.27.17

Carrier: **178663**
 COC No.: 1 of 1 COCS
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.

Ninyo & Moore 1956 Webster Street #400 Oakland/CA/94612 510-343-3000 FAX Project Name Chun Site: 401896004 P O #	Project Manager: Peter Sims Tel/Fax: 510.343.3000 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from below <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	Site Contact: Asha Turman Lab Contact: Paloma Duong Date: 9.27.17	Carrier: 178663 COC No.: 1 of 1 COCS
---	---	---	--

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Analysis Method
MMW-6R	9.27.17	1400	G	GW	6	N	N	SM 3500-FeD
MMW-14	9.27.17	1410	G	GW	6	N	N	TPHg & VOCs; EPA Method 8260B
MMW-4R	9.27.17	1425	G	GW	3	N	N	



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other
 Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Custody Seals Intact: Yes No
 Relinquished by: *Mina Turman*
 Relinquished by: *Wendy Libero*
 Relinquished by: _____
 Cooler Temp. (°C): Obsd.: **2.0°C**
 Therm ID No.: _____

Relinquished by: <i>Mina Turman</i>	Company: <i>Ninyo & Moore</i>	Date/Time: <i>9/27/17 1525</i>	Received by: <i>Wendy Libero</i>	Company: <i>Ninyo & Moore</i>	Date/Time: <i>9/27/17 1525</i>
Relinquished by: <i>Wendy Libero</i>	Company: <i>Delta Ward Corp</i>	Date/Time: <i>9/27/17 152</i>	Received by: <i>Wendy Libero</i>	Company: <i>Delta Ward Corp</i>	Date/Time: <i>9/27/17 1652</i>

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Duong, Paloma R	Carrier Tracking No(s): 720-35687-1
Client Contact: TestAmerica Laboratories, Inc		E-Mail: paloma.duong@testamericainc.com	State of Origin: California
Shipping/Receiving		Accreditations Required (See note): State Program - California	
Company: TestAmerica Laboratories, Inc		COC No: 720-82231-1	
Address: 17461 Derian Ave, Suite 100, Irvine		Page: Page 1 of 1	
City: Irvine		Job #: 720-82231-1	
State, Zip: CA, 92614-5817		Preservation Codes:	
Phone: 949-261-1022(Tel) 949-260-3297(Fax)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - HZSO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Email:		Other:	
Project Name: Chun		Project #: 72010606	
Site:		SSOW#:	
Due Date Requested: 10/3/2017		Analysis Requested	
TAT Requested (days):		8260B/CA LUFTMS/5030B C4-C12 Volatile Fuel	
PO #:		8260B_LL/5030B (MOD) Default 8260B Volatiles	
WO #:		Hydrocarbons	
Project #: 72010606		Perform MS/MSD (Yes or No)	
SSOW#:		Field Filtered Sample (Yes or No)	
Sample Date		Sample Type	
Sample Time		Matrix	
Sample Date		Preservation Code:	
Sample Identification - Client ID (Lab ID)		Total Number of Containers	
MW-6R (720-82231-1)	9/27/17 14:00 Pacific	Water	2
MW-14 (720-82231-2)	9/27/17 14:10 Pacific	Water	3
MW-4R (720-82231-3)	9/27/17 14:25 Pacific	Water	2
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2			
Empty Kit Relinquished by: Date/Time: Company:			
Relinquished by: Date/Time: Company:			
Relinquished by: Date/Time: Company:			
Custody Seals Intact: Custody Seal No.:			
<p>Special Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Method of Shipment: FedEx 406 305 5713 Company Date/Time: 10/3/17 9:30 TAI Received by: Van Buren Company Date/Time: _____ Company Received by: _____ Company Date/Time: _____ Company Cooler Temperature(s) °C and Other Remarks: (CS) 3.2/3.9 IR-66			



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-82231-1

Login Number: 82231
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-82231-1

Login Number: 82231
List Number: 2
Creator: Salas, Margarita

List Source: TestAmerica Irvine
List Creation: 10/03/17 12:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

GROUNDWATER MONITORING DATA SHEETS

MONITORING WELL SAMPLING FORM Date: 5.17.17

Project Name: <u>Chun</u>	Client: <u>Carolyn Fong</u>	Job No: <u>40189604</u>
Address: <u>2301 Santa Clara Avenue</u>	Contact/Phone:	
City/State: <u>Alameda, CA</u>	Technician Gauging/Sampling: <u>ALT</u>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <u>MW-4R</u>	Depth to Liquid (DL): <u>8.73</u>	+ 3; 7.92 gal
Casing Material: <u>PVC</u>	Depth to Water (DW1): <u>8.73</u>	
Diameter: <u>2"</u>	Product Thickness (PT=DW1-DL):	
Well Head Condition: <u>good</u>	Total Well Depth (TD): <u>25.23</u>	
Well Box Condition: <u>good</u>	Total head (TH=TD-DW1): <u>16.5</u>	
Purge Method: <u>Pump</u>	Casing Volume (TH*Factor): <u>2.64</u>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F)	Cond (µS/cm)	pH	Turb (NTU)	ORP (mV)	DO (mg/l)	Remarks
1020	2	19.63	0.446	6.94	62.1	51	13.17	sediment came out
1026	4	19.72	0.449	6.9	37.4	43	6.15	brownish
1040	6	19.64	0.476	6.96	2.08	4	3.27	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM

Date: **5.18.17**

Project Name: Chun	Client: Carolyn Fong	Job No: 401096004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-5R	Depth to Liquid (DL): 7.80	3 = 7.48 gal
Casing Material: PVC	Depth to Water (DW1): 7.80	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 23.90	
Well Box Condition:	Total head (TH=TD-DW1): 16	
Purge Method: Pump	Casing Volume (TH*Factor): 2.5 x 3	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F)	Cond (µS/cm)	pH	Turb (NTU)	ORP	DO (mg/L)	Remarks
1320	2	21.10	0.570	6.94	9.35	110	2.26	cloudy, petrol odor
1330	4	21.48	0.449	7.17	2.43	125	2.12	cloudy, petrol odor
1340	6	21.47	0.637	7.22	5.14	126	2.04	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

Submerged, sediment came up

MONITORING WELL SAMPLING FORM

Date: 5.17.17

Project Name: <u>Chun</u>	Client: <u>Carolyn Fong</u>	Job No: <u>40189664</u>
Address: <u>2301 Santa Clara Avenue</u>	Contact/Phone:	
City/State: <u>Alameda, CA</u>	Technician Gauging/Sampling: <u>ALT</u>	

Note: All measurements from top of casing. Well Location:

WELL NO. <u>MW-UR</u>	Depth to Liquid (DL): <u>6.95</u>
Casing Material: <u>PVC</u>	Depth to Water (DW1): <u>6.95</u>
Diameter: <u>2"</u>	Product Thickness (PT=DW1-DL):
Well Head Condition: <u>Bad</u>	Total Well Depth (TD): <u>25.24</u>
Well Box Condition: <u>Bad</u>	Total head (TH=TD-DW1): <u>18.29</u>
Purge Method: <u>Pump</u>	Casing Volume (TH*Factor): <u>2.926 = 8.78 gal</u>
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/L	Remarks
<u>1300</u>	<u>2.5</u>	<u>20.74</u>	<u>1.86</u>	<u>5.87</u>	<u>3.67</u>	<u>237</u>	<u>2.53</u>	
<u>1315</u>	<u>5</u>	<u>20.86</u>	<u>1.82</u>	<u>5.80</u>	<u>3.49</u>	<u>240</u>	<u>2.37</u>	
<u>1325</u>	<u>8</u>	<u>20.78</u>	<u>1.78</u>	<u>5.82</u>	<u>1.14</u>	<u>232</u>	<u>2.28</u>	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments
concrete broke around well lid, doesn't close, can use pump

MONITORING WELL SAMPLING FORM

Date: 5.18.17

Project Name: Chun	Client: Carolyn Fong	Job No: 40189404
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-7R	Depth to Liquid (DL): 7.24	} = 8.69
Casing Material: PVC	Depth to Water (DW1): 7.14	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 25.24	
Well Box Condition: good	Total head (TH=TD-DW1): 18.10	
Purge Method: Pump	Casing Volume (TH*Factor): 2.90 x	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP (mV)	DO (mg/L)	Remarks
1410	2.5	21.36	0.1059	7.10	8.96	-85	2.06	Particulates, petrol odor
1420	5	21.01	0.717	6.82	8.60	-37	1.75	" "
1430	8	20.76	0.743	6.81	7.41	-36	1.54	" "

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

submerged

MONITORING WELL SAMPLING FORM

Date:

5.18.17

Project Name: Chun	Client: Carolyn Fong	Job No: 401096004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-8	Depth to Liquid (DL): 7.95	Well Location:
Casing Material: PVC	Depth to Water (DW1): 7.95	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 17.03	
Well Box Condition: good	Total head (TH=TD-DW1): 6.13	
Purge Method: Pump	Casing Volume (TH*Factor): 0.98 x 3 = 2.94 gal	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DPD (mg/L)	DO (mg/L)	Remarks
9:30	1	17.63	0.395	7.75	3.65	143	4.49	petrol odor
9:41	2	17.89	0.389	7.54	52.0	125	3.78	yellowish particles
9:43	3	20.44	0.393	7.04	52.3	51	3.70	suspended

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-S	TPH-d	BTEX /MIBE	8260	8010	OTHER

Additional Comments

Has tubing

MONITORING WELL SAMPLING FORM

Date: **5.17.17**

Project Name: Chun	Client: Carolyn Fong	Job No: 40189624
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-9	Depth to Liquid (DL): 6.25	x 3 = 4.09 gal
Casing Material: PVC	Depth to Water (DW1): 6.25	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 14.78	
Well Box Condition: missing	Total head (TH=TD-DW1): 8.53	
Purge Method: Pump SCNU	Casing Volume (TH*Factor): 1.36	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/L	Remarks
1016	1.5	19.46	0.311	7.05	34.7	241	6.49	
1020	3	19.12	0.267	7.26	41.4	219	5.61	
1023	4	18.48	0.454	7.17	53.0	220	3.74	; brown-cloudy

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
1030											

Additional Comments

MONITORING WELL SAMPLING FORM

Date: **5.17.17**

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-10	Depth to Liquid (DL): 6.59	Well Location:
Casing Material: PVC	Depth to Water (DW1): 6.59	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 13.2	
Well Box Condition: good	Total head (TH=TD-DW1): 6.41 <small>0.10</small>	
Purge Method: Pump	Casing Volume (TH*Factor): 1.0576	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	Turb (NTU)	ORP mV	Remarks
952	1	19.16	0.427	7.00	42.5	298	DO mg/L 4.95
955	2	19.30	0.447	6.88	40.3	289	5.43
957	3	19.35	0.424	6.77	54.4	277	4.28

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM

Date: **5.18.17**

Project Name: Chun	Client: Carolyn Fung	Job No: 401696024
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-11R	Depth to Liquid (DL): 1.05	} = 7.14 gal
Casing Material: PVC	Depth to Water (DW1): 1.05	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 23.93	
Well Box Condition: good	Total head (TH=TD-DW1): 14.84	
Purge Method: Pump	Casing Volume (TH*Factor): 2.38 x 3	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/L	Remarks
1210	2	21.05	0.524	6.85	16.4	-65	2.16	Petro/odor
1220	4	20.57	0.524	6.81	11.6	-96	2.16	" " ; cloudy
1230	6	20.56	0.516	6.78	2.05	-90	2.20	" " ; clear

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

good

MONITORING WELL SAMPLING FORM Date: **5.18.17**

Project Name: **Chun** Client: **Carolyn Fong** Job No: **401896004**
 Address: **2301 Santa Clara Avenue** Contact/Phone:
 City/State: **Alameda, CA** Technician Gauging/Sampling: **ALT**

Note: All measurements from top of casing. Well Location:
WELL NO. MW-12 Depth to Liquid (DL): **8.65**
 Casing Material: **PVC** Depth to Water (DW1): **8.65**
 Diameter: Product Thickness (PT=DW1-DL):
 Well Head Condition: Total Well Depth (TD): **24.62**
 Well Box Condition: Total head (TH=TD-DW1): **15.97**
 Purge Method: **Pump** Casing Volume (TH*Factor): **2.56** **x3 = 7.67 gal**
 Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft.
 1/2" = 0.01; 3/4" = 0.023

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	ID mg/L	Remarks
1125	2	19.57	0.509	6.93	0.88	-34	2.95	; clear
1135	4	19.89	0.514	6.71	0.43	-36	2.26	
1145	6	20.40	0.516	6.74	0.52	-37	2.21	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM Date: **5.17.17**

Project Name: **Chun** Client: **Carolyn Fung** Job No: **401896004**
 Address: **2301 Santa Clara Avenue** Contact/Phone:
 City/State: **Alameda, CA** Technician Gauging/Sampling: **ALT**

Note: All measurements from top of casing. Well Location:

WELL NO. MW-13	Depth to Liquid (DL): 8.73	= 7.01 gal
Casing Material: PVC	Depth to Water (DW1): 8.73	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 23.33	
Well Box Condition: good	Total head (TH=TD-DW1): 14.6	
Purge Method: Pump	Casing Volume (TH*Factor): 2.34	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/l	Remarks
1410	2	20.14	1.28	5.82	6.23	252	3.17	
1416	4	19.32	0.79	5.80	22.9	274	4.11	; cloudy
1422	6	18.94	0.752	6.54	59.0	236	4.80	; cloudy

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 5.17.17

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 8.47	Well Location: = 1.55 gal
Casing Material: PVC	Depth to Water (DW1): 8.47	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 11.49	
Well Box Condition:	Total head (TH=TD-DW1): 3.27	
Purge Method: Pump	Casing Volume (TH*Factor): .515 x	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/l	Remarks
1500	5	18.70	0.734	6.05	55.1	162	5.24	gray; ch, petrol odor
1502	1	18.36	0.597	5.11	133	63	5.12	" " "
1504	2	18.21	6.714	7.28	133	-65	2.78	" " "

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM

Date: **5.17.17**

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-15	Depth to Liquid (DL): 9.81	
Casing Material: PVC	Depth to Water (DW1): 9.61	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 29.69	
Well Box Condition: good	Total head (TH=TD-DW1): 20.08	
Purge Method: Pump	Casing Volume (TH*Factor): 3.34 x 3 = 10.02 gal	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mV	DO mg/L	Remarks
1104	3	19.03	0.446	7.10	5.82	193	3.98	check
1110	6	19.31	0.438	7.04	4.59	176	3.90	
1120	9	19.33	0.434	7.82	24.6	185	7.05	brownish

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	OTHER				
						TPH-g	TPH-d	BTEX /MTBE	8260	8010

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 5.17.17
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Project Name: Chun	Client: Carolyn Fong Job No: 401696004
Address: 2301 Santa Clara Avenue	Contact/Phone:
City/State: Alameda, CA	Technician Gauging/Sampling: ALT

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-16	Depth to Liquid (DL): 8.37	<p>Well Location:</p>
Casing Material: PVC	Depth to Water (DW1): 8.37	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 29.66	
Well Box Condition: Good	Total head (TH=TD-DW1): 21.29	
Purge Method: Pump	Casing Volume (TH*Factor): 3.406 x 3 = 10.22 gal	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	ORP mv	DO (mg/L)	Remarks
11:40	3	18.94	6.476	6.92	4.39	189	6.19	
11:53	6	18.52	6.541	6.87	6.32	-12	5.76	
12:09	0							

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MIBE	8260	8010	OTHER

Additional Comments
