55 Glenlake Parkway, NE
Atlanta, GA 30328-3474

Ms. Barbara Jakub
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject:
Groundwater Monitoring and HVE Events Report
UPS Oakland Hub
8400 Pardee Drive, Oakland, CA 94621
Global ID T0600100939
State ID # 583
EPA ID # CAD 09707509

Dear Ms. Jakub:

Attached please find the Groundwater Monitoring and High-Vacuum Extraction (HVE) Events Report for the above-referenced site. The report, which was prepared for United Parcel Service by ARCADIS U.S., Inc., includes the semi-annual groundwater monitoring and HVE events that were performed at the subject site in 2013.

I declare under penalty of perjury, that the information and/or recommendations contained in the attached Groundwater Monitoring and HVE Events Report are true and correct.

Please feel free to contact me directly at 404.828.8991 should you have any questions or comments.

Sincerely,

United Parcel Service

Paul Harper
Corporate Remediation Program Manager

ARCADIS US, INC.
100 Montgomery Street, Suite 300
San Francisco, California 94104
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Ms. Dilan Roe
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject:
Groundwater Monitoring and High-Vacuum Extraction Report
UPS Oakland Hub
8400 Pardee Drive, Oakland, CA 94621
Global ID # T0600100939
State ID # 583
EPA ID # CAD 09707509

ENVIRONMENT

Date:
September 30, 2013

Contact:
Hollis Phillips

Phone:
415.432.6903

Email:
Hollis.Phillips@arcadis-us.com

Our ref:
B0038398.0013

Dear Ms. Roe:

On behalf of United Parcel Service (UPS), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit this Groundwater Monitoring and High-Vacuum Extraction (HVE) Report, which documents the first and second semi-annual 2013 groundwater monitoring and HVE events performed at the UPS Oakland Hub, located at 8400 Pardee Drive, Oakland, Alameda County, California (**Figures 1**, **2**, and **3**).

Background

Historical aerial photographs from 1937 to the present indicate that the 8400 Pardee Drive property that UPS leases from the Port of Oakland was originally a tidal marsh. In 1968, the site was raised above mean sea level (amsl) with suspect imported fill and graded. This artificial historical fill has been documented in both the northern and southern former fueling areas, at depths ranging from 2 to 10 feet (ft). Currently, the grade at the property is approximately 10 ft amsl and is located on a narrow peninsula south of San Leandro Bay.

Based on the aerial photographs, there were no structures on the property until 1975, when the current UPS facility was constructed. The southern former fueling area (current release area), was visible in the photographs from 1985. Detailed historical information since 1985 has been provided in previous reports.

The current site is an active package distribution facility with vehicle maintenance. The area around the site is characterized by medium to heavy industrial use and includes the nearby Oakland International Airport.

In 2010, multiple soil and groundwater investigation activities were performed, including HVEs, a preferential pathway study, a well survey, and soil and groundwater sampling. These activities were documented in the Summary of Soil and Groundwater Investigation Activities Report dated February 15, 2011 (ARCADIS, 2011a), which was submitted to the Alameda County Department of Environmental Health (ACDEH). This report was updated in 2012 (Revised Summary of Soil and Groundwater Investigation Activities Report [ARCADIS, 2012]) to include information about the newly installed monitoring and injection wells at the site.

In 2011, ARCADIS submitted a Corrective Action Plan (CAP ARCADIS, 2011b) to address residual soil and groundwater impacts in the immediate area of the former diesel underground storage tanks (USTs). The proposed corrective action was the installation of injection wells and to conduct injection events which would be implemented to reduce concentrations to levels that would be protect both humans and the environment, as specified in the State Water Resources Control Board's (SWRCB's) Low-Threat Underground Storage Tank Case Closure Policy (Low-Threat Closure Policy) adopted by the SWRCB on May 1, 2012 and effective August 17, 2012 (SWRCB 2012). A risk assessment report will be submitted to ACDEH when the levels stated in this policy are achieved.

2013 Groundwater Monitoring and Analysis

During the first semi-annual groundwater monitoring event, which took place on February 26, 2013, groundwater samples were collected from monitoring wells MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14 and injection wells IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. Groundwater samples were not collected from monitoring well OW-1 due to the presence of free product. Water levels were measured prior to purging and sampling the wells.

During the second semi-annual groundwater monitoring event, which took place on July 22-23, 2013, groundwater samples were collected from monitoring wells MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14 and injection wells IW-2, IW-3, IW-5, and IW-6. Groundwater samples were not collected from wells MW-2, MW-12, OW-1, or IW-1 due to the presence of free product. In addition, access to injection well IW-4 was obstructed by a large trailer, which could not be moved; therefore, no sample was taken. Water levels were measured prior to purging and sampling the wells.

During low-flow purging of the wells groundwater parameters (pH, temperature, turbidity, and conductivity parameters) were monitored to evaluate stabilization.

When groundwater parameters varied less than ±10% samples were collected (**Appendix A**).

Groundwater samples during the February and July 2013 monitoring events were analyzed for:

- TPH-diesel range organics (TPH-DRO) by United States Environmental Protection Agency (EPA) Method 8015B;
- benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and naphthalene by US EPA Method 8260;
- and TPH-gasoline range organics (TPH-GRO) by US EPA Method 8260B/California Leaking Underground Fuel Tank.

Analyses were conducted by TestAmerica Laboratories, Inc. in Pleasanton, California, which is certified by the California Department of Health Services for environmental analyses. Additional analysis of specific conductivity (field analysis), methane, nitrate as nitrogen, magnesium, sulfate, sulfide, iron, and total dissolved solids (TDS) were conducted.

During the July 2013 groundwater monitoring event the samples were analyzed for TPH-DRO with silica gel cleanup.

Purge water was contained in Department of Transportation-approved drums for subsequent disposal.

Water Levels

The depth to water in each well was gauged on February 26 and July 22, 2013 prior to purging and groundwater sample collection. The groundwater elevations during the February 2013 monitoring event ranged from 0.78 ft amsl in injection well IW-1 to 8.72 ft amsl in monitoring well MW-9. Groundwater elevations during the July 2013 monitoring event ranged from 1.37 ft amsl in monitoring well MW-10 to 8.50 ft amsl in monitoring well MW-9.

Historical groundwater gauging and elevation data (including the HVE events) are presented in **Table 1**. Groundwater elevation maps were prepared using the February and July 2013, groundwater elevation data and are presented as **Figure 4A** and **Figure 4B**, respectively. The direction of groundwater flow was generally to the southeast during both monitoring events, which is consistent with historical groundwater flow.

SOS® Passive Skimmers were installed in observation well OW-1 and monitoring wells MW-2 and MW-3 in April 2011. The monthly skimmer free product recovery data collected from June 2011 to July 2013 are presented in **Table 1**, which also includes the historical records of free product thickness and volume recovered since 1990. During the February 26, 2013 monthly skimmer free product recovery event, 15 milliliters (mL) of free product were removed from OW-1 and 5.0 mL were removed from monitoring well MW-2. There was no free product was observed in monitoring well MW-3. The skimmers are operating effectively, and free product has been recovered on a consistent basis. As of July 22, 2013, approximately 7.14 gallons of free product have been removed from the site. Approximately 2.05 gallons were removed prior to the installation of the skimmers, and 4.27 gallons have been removed since the skimmers were installed, with an additional 0.83 gallons being removed from the wells that do not contain skimmers. The specifications for the SOS® Passive Skimmers are presented in **Appendix B**.

During the February and July 2013, monitoring events, free product was observed in monitoring well MW-12 and injection well IW-1. Free product was removed from these wells using a disposable bailer. Thirty mL of free product was removed from monitoring well MW-12 during the February monitoring event and 97 mL were removed during the July monitoring event. Five hundred fifty mL were removed from injection well IW-1 during the February monitoring event and 218 mL were removed during the July monitoring event.

Groundwater Quality

During the February 2013 monitoring event, groundwater samples were collected from monitoring wells MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14 and injection wells IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. During the July 2013 monitoring event, groundwater samples were collected from monitoring wells MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-13, and MW-14 and injection wells IW-2, IW-3, IW-5, and IW-6. Injection well IW-5 was re-sampled on August 12, 2013 for TPH-DRO with silica gel cleanup due to an observed increase during the July monitoring event.

Historical groundwater analytical data are presented in **Table 2**. Groundwater data for the February and July 2013 monitoring events are presented on **Figure 5A** and **Figure 5B**, respectively. Laboratory analytical results and chain-of-custody documentation for these monitoring events are provided in **Appendix C**.

Contaminant Data

This section of the report focuses on presenting the results of laboratory analysis for contaminant data including BTEX, MTBE, TPH-GRO, TPH-DRO, and Naphthalene.

BTEX and MTBE – During both the February and July 2013 monitoring events, BTEX and MTBE concentrations were either below their respective San Francisco Bay Region environmental screening levels (ESLs) in the wells that were sampled.

TPH-GRO – During the February 2013 monitoring event, TPH-GRO was detected above the ESL (100 micrograms per liter [µg/L]) for drinking water in the following wells MW-2 (910 µg/L), MW-3 (200 µg/L), MW-12 (2,500 µg/L), IW-1 (32,000 µg/L), IW-4 (5,600 µg/L), IW-5 (3,200 µg/L), and IW-6 (120 µg/L). During the July 2013 monitoring event, TPH-GRO was detected above the ESL for drinking water in MW-3 (290 µg/L). During the February event TPH-GRO exceeded the non-drinking water, ESL (210 µg/L) in MW-2, MW-12, IW-1, IW-4, and IW-5, and in MW-3 during the July event.

TPH-DRO – During the February 2013 monitoring event, TPH-DRO was detected above the ESLs (100 µg/L for drinking water and 210 µg/L for non-drinking water) in the following wells: MW-2 (3,800 µg/L), MW-3 (12,000 µg/L), MW-4 (9,900 µg/L), MW-8 (280 µg/L), MW-9 (320 µg/L), MW-10 (440 µg/L), MW-11 (1,200 µg/L), MW-12 (24,000 µg/L), MW-13 (880 µg/L), MW-14 (230 µg/L), IW-1 (59,000 µg/L), IW-2 (6,200 µg/L), IW-3 (1,100 µg/L), IW-4 (34,000 µg/L), IW-5 (25,000 µg/L), and IW-6 (4,800 µg/L).

During the July 2013 sampling event, TPH-DRO was detected above the ESL for drinking water in monitoring wells MW-3 (7,000 µg/L), MW-4 (1,100 µg/L), and injection wells IW-2 (3,400 µg/L), IW-5 (39,000 µg/L) and IW-6 (970). TPH-DRO data for injection well IW-5 is from the re-sampling event on August 12, 2013.

Naphthalene – During the February 2013 monitoring event, naphthalene concentrations were detected at or above ESLs (17 µg/L for drinking water and 24 µg/L for non-drinking water) in injection wells IW-1 (42 µg/L), IW-2 (480 µg/L), IW-3 (430 µg/L), and IW-4 (24 µg/L). In July 2013, naphthalene was detected at or above ESLs in injection wells IW-2 (430 µg/L) and IW-3 (150 µg/L). Concentrations were below the ESLs for both drinking water and non-drinking water in all other monitoring and injection wells.

Biogeochemical Indicator Parameter Data

This section of the report focuses on the biogeochemical indicator parameters (nitrate, iron, sulfate, sulfide and methane).

Aquifers impacted by petroleum hydrocarbons are typically anaerobic because dissolved oxygen (DO) is energetically favorable, and is preferentially consumed by indigenous microbes during aerobic oxidation of the petroleum hydrocarbons, which serves as an electron donor in the microbial metabolism reactions. Following the depletion of oxygen, alternative electron acceptors (i.e., nitrate, iron, manganese, sulfate, and carbon dioxide) are utilized in the continued oxidation of petroleum hydrocarbons. The anaerobic oxidation of petroleum hydrocarbons under various dominant electron-accepting processes (e.g., sulfate-reduction, iron-reducing, methanogenesis, etc.) is well-founded in the literature (Finneran, et al., 2001; Aronson and Howard, 1997; and Beller, et al., 1992).

Anaerobic processes generally occur at slower kinetic rates than that observed with oxygen. Non-oxygen electron acceptors can be advantageous to oxygen as they can be highly soluble, can be supplied at elevated dissolved concentrations, and have minimal abiotic or non-target reactions that typically limit oxygen persistence in the subsurface. For example, the higher concentrations of sulfate that can be maintained in a petroleum hydrocarbon impacted aquifer accompanied by electron acceptor persistence allows for effective hydrocarbon degradation. Comparatively, active oxygen sparging approaches are fundamentally limited by low oxygen solubility in groundwater and gas transfer inefficiencies that limit the effective dissolved oxygen concentrations typically maintained in engineered aerobic reactive zones. While the kinetic rates of anaerobic oxidation may be slower than aerobic oxidation, a natural attenuation approach relying on anaerobic processes can be cost-effective for addressing petroleum hydrocarbons.

Nitrate as nitrogen – Concentrations during the February and July 2013 monitoring events were below the laboratory reporting limit of 230 µg/L. Groundwater at the site has been analyzed for nitrate since August 2012 and all samples submitted to nitrate analysis have been below the laboratory reporting limit. Given the elevated concentrations of hydrocarbons and the strong anaerobic conditions at the site, it is not surprising that the concentration of nitrate is low. After oxygen, nitrate is a thermodynamically favorable electron acceptor that can be readily used by microbes in numerous petroleum hydrocarbon oxidation metabolisms.

Iron – During the February and July 2013 monitoring events, iron concentrations ranged from 560 µg/L in monitoring well MW-13 to 42,000 µg/L in injection well IW-6

and from 1,500 µg/L in injection well IW-3 to 45,000 µg/L in injection well IW-6, respectively. Groundwater at the site has been analyzed for iron since March 2012, and in general the concentrations have ranged from approximately 1,000 to approximately 45,000 µg /L. Initial iron concentrations from MW-13 and all of the injection wells ranged as high as 210,000 to 390,000 µg /L in March 2012, but this was likely related to sediment from the newly installed and developed wells. Iron (in the form of ferrous [Fe^{2+}] or ferric [Fe^{3+}]) can be an indicator as to the redox condition of the groundwater. The presence of iron as ferric iron (along with other biogeochemical data) is an indication of more oxidizing groundwater and ferrous iron (along with other biogeochemical data) is an indication of more reducing groundwater. Ferric iron is slightly soluble and typically total iron is a representation of ferric iron. Ferrous iron is highly soluble and typically dissolved iron is a representation of ferrous iron. Future sampling for iron at the site will evaluate total iron and dissolved iron to discern the difference in the oxidation state of the iron.

Sulfate – During the February 2013 monitoring event, sulfate concentrations ranged from less than 1,000 µg/L in monitoring wells MW-2, MW-3, MW-8, MW-11, and injection wells IW-1, IW-2, and IW-3 to 66,000 µg/L in monitoring well MW-14. During the July 2013 event, sulfate concentrations ranged from less than 1,000 µg/L in monitoring wells MW-3, MW-4, MW-8, MW-9 and MW-10 and injection wells IW-2 and IW-6 to 2,100 µg/L in monitoring well MW-13. Similarly with nitrate and iron, the presence of sulfate suggests some available electron acceptors to facilitate anaerobic oxidation of petroleum hydrocarbons. The sulfur element in sulfate is the most oxidized form of sulfur, and as microbes use sulfate to facilitate the oxidation of hydrocarbons, electrons are transferred to the sulfur and it creates sulfide. Therefore, looking at sulfate and sulfide (along with other biogeochemical data) can provide clues as to the redox condition of the water. Depending on the environmental setting, background sulfate concentrations can range from 10,000 µg /L (typical) to 1,000,000 µg /L (tidally influenced areas). The ambient concentrations of sulfate at this site are generally within the typical range, and the numerous locations below laboratory reporting limits indicates that most of the available sulfate has been utilized in the natural anaerobic oxidation of petroleum hydrocarbons.

Sulfide – During the February 2013 monitoring event, sulfide concentrations ranged from less than 1,000 µg/L in monitoring wells MW-2, MW-3, MW-8, MW-9, MW-10, MW-12 , and MW-14 and injection wells IW-1 and IW-5 to 8,200 µg/L in injection well IW-3. During the July 2013 event, sulfide concentrations ranged from less than 1,000 µg/L in monitoring wells MW-3, MW-4, MW-9, MW-10, MW-11, MW-12 and MW-13 to 6,200 µg/L in injection well IW-6. Sulfide is highly reactive with available metals in the aquifer (e.g., iron) and as a result in most anaerobic aquifers the observed concentrations of sulfide are below 1,000 µg /L. This is because the sulfide

forms insoluble compounds with the metals and is therefore no longer present in groundwater. Observations of sulfide in groundwater in excess of 1,000 µg /L with iron concentrations in excess of 10,000 µg /L are considerable because this implies that enough sulfide is present to react with the iron and still be detected in groundwater. Because sulfide is the result of anaerobic reduction of sulfate and oxidation of petroleum hydrocarbons, concentrations of sulfide above 1,000 µg /L provide strong evidence of naturally occurring anaerobic hydrocarbon oxidation.

Methane – During the February and July 2013 monitoring events, methane concentrations ranged from 1,400 µg/L in monitoring well MW-2 to 4,100 µg/L in monitoring well MW-3, and from 3,900 µg/L in injection well IW-2 to 13,000 µg/L in monitoring well MW-13, respectively. These are similar concentrations to the 2012 results, which is the only other time methane has been analyzed. The solubility of methane in water at ambient temperature is approximately 20,000 to 25,000 µg /L, and methane concentrations above 1,000 µg /L in groundwater are generally indicative of anaerobic processes. All of the concentrations of methane presented in **Table 2** indicate elevated concentrations of methane (above 1,000 µg /L); however, not all of the wells with methane have the same elevated petroleum hydrocarbon concentrations. For example, methane concentrations observed at MW-8, MW-9, MW-10, and MW-14 range from 2,000 to 7,700 µg /L, and these wells represent some of the lowest TPH-GRO and TPH-DRO concentrations on site A possible explanation for this is a slow groundwater velocity that is not bringing oxygen from upgradient into the plume. Biological oxidation of methane in the presence of oxygen is a well recognized process. It is not advised to disrupt the anaerobic conditions at the site, and methane will be addressed over time as oxygen infiltrates the former source areas.

TDS – During the February and July 2013 monitoring events, TDS concentrations ranged from 630 mg/L in monitoring well MW-3 to 8,900 mg/L in monitoring well MW-9, and from 720 mg/L in monitoring well MW-3 to 16,000 mg/L in monitoring well MW-9, respectively. The RWQCB generally limit drinking water sources to 3,000 milligrams per liter (mg/L) TDS to be protective. Groundwater at the site is not a drinking water source, and numerous locations exceed the 3,000 mg/L standard (MW-8, MW-9, MW-10, MW-11, MW-14, IW-2, and IW-6).

HVE Activities

Icon Environmental Services, Inc. from Union City, CA performed HVE activities, with ARCADIs oversight, on February 25, April 4, and May 5, 2013. The HVE product recovery activities were performed on MW-12, MW-13, IW-1, IW-2, and IW-3.

Groundwater and free product were extracted from monitoring and injection wells, and were pumped into the HVE storage truck. Groundwater extracted during these events was disposed of by Icon Environmental on February 25, April 4, and June 15, 2013. Waste manifests for the extraction can be found in **Appendix D**. Field notes from the HVE event are in **Appendix E** and include photoionization detector (PID) readings, total gallons extracted during the event, and depth to product.

A brief summary of the activities conducted during each of these events is provided below.

- February 25 – Prior to conducting the HVE activities, depth to water (DTW) and depth to product (DTP) measurements were collected at IW-1, IW-2, IW-3, MW-12, and MW-13. No free product was found at IW-2, IW-3, or MW-13. Approximate free product thicknesses of 0.85 feet and 1.05 feet were observed at IW-1 and MW-12, respectively. Extraction was conducted at IW-1 and MW-12. At IW-1, approximately 825 gallons were extracted at an approximate rate of 5.5 gallons per minute (gpm). At MW-12, approximately 275 gallons were extracted at an approximate rate of 1.5 gpm. The HVE activities were limited to one day. While extracting from MW-12, an approximate decrease in the water table of 2.41 feet was observed 12.30 feet away at IW-1. During the extraction, photoionization detector (PID) readings did not increase significantly and this is likely attributed to the low volatility of the TPH-DRO. HVE can be effective at enhancing volatility of lower molecular weight higher volatile petroleum hydrocarbons like BTEX, but is less effective for TPH-DRO.

- April 4 – Prior to conducting HVE activities, DTW and DTP measurements were collected at IW-1, IW-2, MW-12, and MW-13. No free product thickness was observed at IW-2 or MW-13. Approximate free product thicknesses of 0.84 feet and 0.25 feet were observed at IW-1 and MW-12, respectively. The February and April HVE activities were separated by 38 days, and, qualitatively, the free product thickness at IW-1 returned faster than MW-12. Extraction was conducted at IW-1 and MW-12 with an applied vacuum that ranged from 20 to 26 inches of mercury (in Hg). The observed PID response at the vacuum truck ranged from 1.2 to 7.3 parts per million (ppm), which is considered low in the presence of free product and supports the low volatility of TPH-DRO. At IW-1, approximately 500 gallons were extracted at an approximate rate of 4.2 gpm. At MW-12, approximately 180 gallons were extracted at an approximate rate of 1.5 gpm. During extraction at each location, water drawdown and imposed vacuum were observed at distances of 12.30 feet to 25.22 feet. The imposed vacuum at IW-1 resulted in a lower magnitude of vacuum response (0.14 to 1.22 inches of water [in w.c.]) and a lower magnitude of drawdown (up to 5.52 feet). In fact, the DTW at MW-13 (25.22 feet

away) was observed to increase which is an indication of observed vacuum response but not drawdown response. The imposed vacuum at MW-12 resulted in a higher magnitude of vacuum response (0.67 to 11.61 in w.c.) and a higher magnitude of drawdown (up to 5.80 feet). Additionally, extraction from MW-12 resulted in drawdown at MW-13. The differences in response to imposed vacuum and the difference in the thicknesses of the free product from the February to April events at IW-1 and MW-12 suggest that HVE removal at IW-1 is generally less effective than MW-12. However, HVE removal in general does not appear to be overly effective because TPH-DRO is the driving contaminant and is minimally influenced by enhanced volatility.

- May 5 – Prior to conducting HVE activities, DTW and DTP measurements were collected at IW-1, IW-2, MW-12, and MW-13. No free product thickness was observed at IW-2 or MW-13. Approximate free product thicknesses of 0.23 feet and 0.42 feet were observed at IW-1 and MW-12, respectively. The April and May HVE activities were separated by 31 days; however, due to the difference in extraction time and volume during the April event it is not appropriate to qualitatively compare free product thickness return over this time period. Extraction was conducted at IW-1 and MW-12 with an applied vacuum of approximately 9 inches of mercury (in Hg). The observed PID response at the vacuum truck ranged from 74.8 to 425 ppm, which is considered low in the presence of free product and supports the low volatility of TPH-DRO. These PID responses are the highest observed over the three HVE events. At IW-1, approximately 560 gallons were extracted at an approximate rate of 3.75 gpm. At MW-12, approximately 190 gallons were extracted at an approximate rate of 1.6 gpm. During extraction at each location, water drawdown and imposed vacuum were observed at distances of 12.30 feet to 25.22 feet. The imposed vacuum at IW-1 resulted in a lower magnitude of vacuum response (0.07 to 1.88 inches of water [in w.c.]) and a lower magnitude of drawdown (up to 0.45 feet). The imposed vacuum at MW-12 resulted in a higher magnitude of vacuum response (0.41 to 16.09 in w.c.) and a higher magnitude of drawdown (up to 1.05 feet).

Cumulatively, approximately 1,890 gallons and 645 gallons of groundwater was extracted from IW-1 and MW-12, respectively. Over the course of three HVE events, imposed vacuums of 9 to 20 in Hg were applied with minimal PID response from the recovered soil gas. Prior to conducting HVE events, the measured free product thicknesses were approximately 0.85 and 1.05 feet at IW-1 and MW-12, respectively. The most recent free product thicknesses from August 12 2013 are 0.61 and 0.17 at IW-1 and MW-12, respectively. This indicates that the HVE events were marginally successful at reducing the overall thickness of free product, but based on the modest

recovery and negligible PID response, HVE does not appear to be a worthwhile investment for petroleum hydrocarbon removal.

Bail down testing was conducted as part of the April HVE event, although because the free product thickness was less than 1 foot, the results may not accurately reflect true free product migration. The results of the test from IW-1 suggested an free product transmissivity value of 0.52 square feet per day (ft^2/d), which implies minimal free product migration and corroborates the minimal recovery during the HVE events.

Summary

- The groundwater elevations during the February 2013 monitoring event ranged from 0.78 ft amsl in ll IW-1 to 8.72 ft amsl in MW-9. Groundwater elevations during the July 22, 2013 monitoring event ranged from 1.37 ft amsl in monitoring well MW-10 to 8.50 ft amsl in monitoring well MW-9.

- Groundwater elevations indicated that the apparent groundwater flow direction was generally to the southeast on February 26 and July 22, 2013.

- BTEX and MTBE were not detected above their respective ESLs in the sampled monitoring wells during the February and July monitoring events, which is consistent with previous events.

- TPH-GRO was detected above the ESL for drinking water in wells MW-2, MW-3, MW-12, IW-1, IW-4, IW-5, and IW-6 during the February 2013 sampling event. During the July 2013 monitoring event, TPH-GRO was detected above the ESL for drinking water in MW-3. The ESL for non-drinking water was exceeded during the February monitoring event in MW-2, MW-12, IW-1, IW-4, and IW-5, and during the July monitoring event in MW-3.

- TPH-DRO was detected above ESLs in MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6. During the July 2013 sampling event, TPH-DRO was detected above the ESL for drinking water in MW-3, MW-4, IW-2, IW-5 and IW-6.

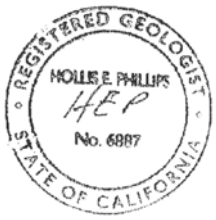
Recommendations

In October 2013 ARCADIS will conduct an additional soil a groundwater investigation in accordance with the *Revised Work Plan for Separate Phase Hydrocarbon Characterization and Dissolved Phase Plume Delineation* (ARCADIS 2013). A Conceptual Site Model will be submitted to ACEH by December 6, 2013.

If you have any questions regarding this report, please do not hesitate to contact me at 415.432.6903. Please send correspondence regarding this report to Mr. Paul Harper of UPS at the address provided below. Please copy ARCADIS on all correspondence.

Sincerely,

ARCADIS U.S., Inc.



Hollis E. Phillips, PG
Project Manager
California PG No. 6887

Attachments:

Figure 1	Site Location Map
Figure 2	Facility Layout Map
Figure 3	Site Map
Figure 4A	Groundwater Contour Map February 26, 2013
Figure 4B	Groundwater Contour Map July 22, 2013
Figure 5A	Groundwater Quality Map February 26, 2013
Figure 5 B	Groundwater Quality Map July 22-23, 2013
Table 1	Historical Groundwater Elevation Summary
Table 2	Historical Groundwater Monitoring Results and Baseline Sampling Summary
Appendix A	Field Data Sheets
Appendix B	SOS® Passive Skimmers Specifications
Appendix C	Laboratory Analytical Results and Chain-of-Custody Documentation
Appendix D	Waste Manifest
Appendix E	HVE Field Notes

Copies:

Paul Harper – UPS Corporate Plant Engineering; 55 Glenlake Parkway NE, Atlanta, GA 30328

Douglas Herman -Port of Oakland; 530 Water Street, Oakland, CA 94607

File

References:

ARCADIS, Inc (ARCADIS) 2011. *Summary of Soil and Groundwater Investigation Activities Report.* February 15, 2011.

ARCADIS 2011. Corrective Action Plan (CAP) *UPS Oakland Hub 8400 Pardee Drive, Oakland, CA***.** December 2011

ARCADIS, 2012. *Revised Summary of Soil and Groundwater Investigation Activities Report, UPS Oakland Hub 8400 Pardee Drive, Oakland, CA***.** August 17, 2012

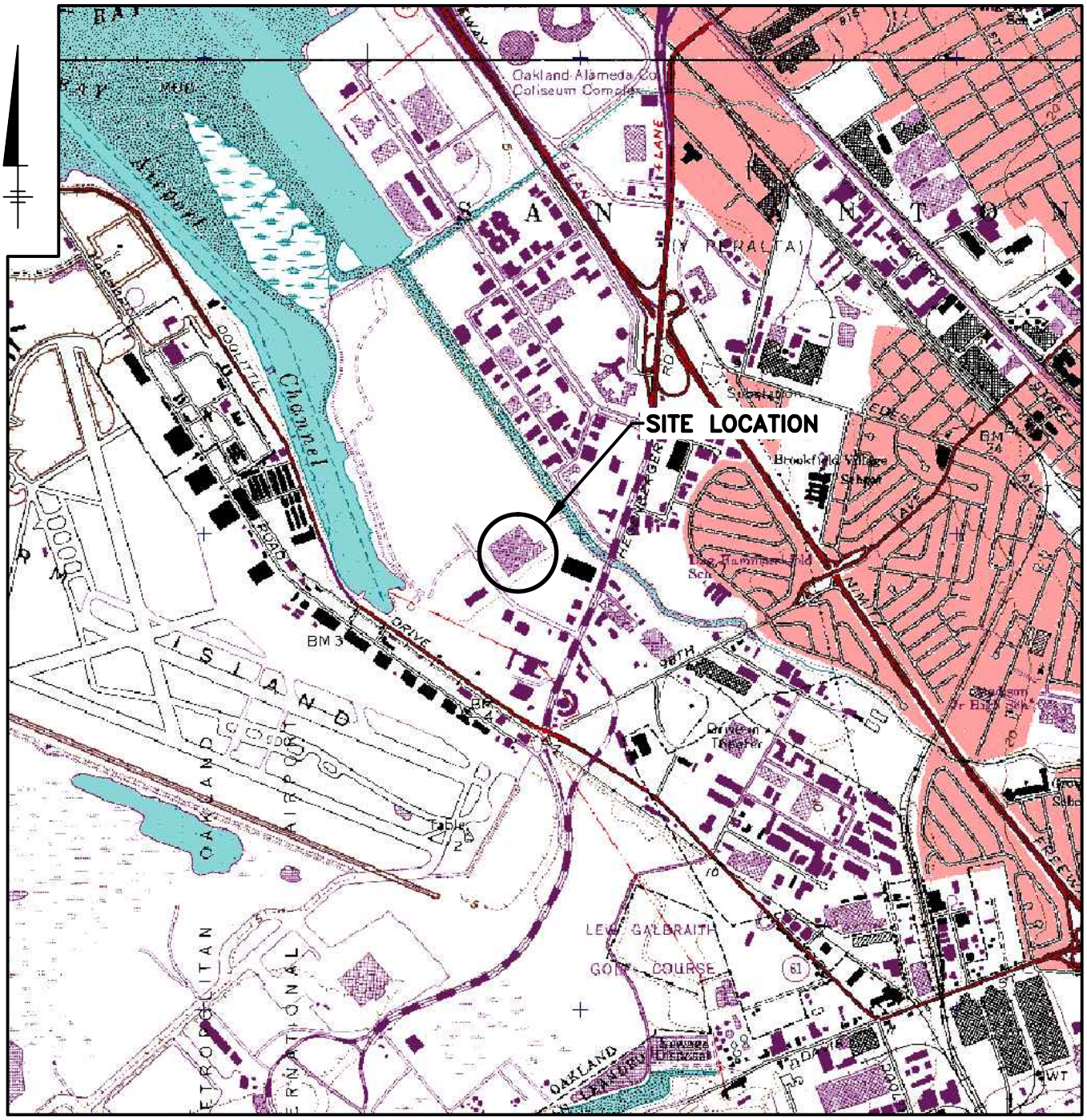
ARCADIS 2013. *Revised Work Plan for Separate Phase Hydrocarbon Characterization and Dissolved Phase Plume Delineation UPS Oakland Hub 8400 Pardee Drive, Oakland, CA*. September 5, 2013.

State Water Resources Control Board. 2012b. Low-Threat Underground Storage Tank Case Closure Policy. Adopted May 1, 2012, Effective August 17, 2012. ((http://www.swrcb.ca.gov/ust/lt_cls_plcy.shtml)

ARCADIS

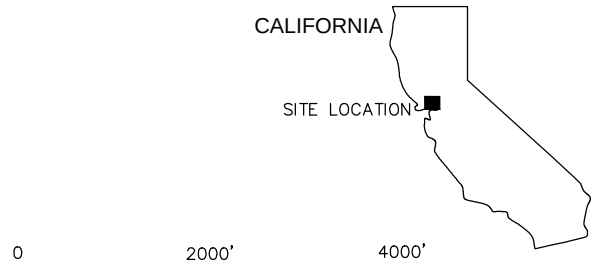
Figures

UPS – Oakland Hub



NOTES:

1. Base Map Source: USGS 7.5 Min. Topo. Quad., San Leandra, Calif.(1993)
2. Property Location is Approximate Only.



APPROXIMATE SCALE: 1"=2000'

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

SITE LOCATION MAP

ARCADIS

FIGURE
1

AREA OF CONCERN

PROPERTY BOUNDARY

0 200' 400'

GRAPHIC SCALE

SOURCE: AERIAL PHOTOGRAPH PROVIDED BY GOOGLE EARTH PRO.

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

FACILITY LAYOUT MAP

ARCADIS

FIGURE
2

CITY:TAMPA DIV/GROUP:ENV-141 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\TAMPA\ACTIVE\00138398 UPS Oakland\0015.003001st 2nd GMR HVE 2013\B0038398N02.dwg LAYOUT: 2 SAVED: 9/24/2013 2:25 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/24/2013 2:25 PM BY: RICHARDS, JIM
XREFS: IMAGES: PROJECTNAME: ---
AREA MAP.jpg
UPSOakland.jpg

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- SOIL BORING LOCATION (2010)
- PROPERTY BOUNDARY
- E — UNDERGROUND ELECTRICAL LINE
- S — STORM WATER/SEWER LINE
- W — WATER/FIRE SERVICE/IRRIGATION
- UG — ELECTRIC/WATER LINE
- CATCH BASIN/STORM DRAIN
- LIGHT POST/ POWER POLE

0 50’ 100’

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

SITE MAP

ARCADIS

FIGURE
3

CITY:TAMPA DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* G:\ENVCAD\TAMPA\ACTIB\00\38398 UPS Oakland\0015.003001st 2nd GMR HVE 2013\B0038398B01.dwg LAYOUT: 3 SAVED: 9/13/2013 4:43 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/24/2013 2:26 PM BY: RICHARDS, JIM

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARY
- E — UNDERGROUND ELECTRICAL LINE
- S — STORM WATER/SEWER LINE
- W — WATER/FIRE SERVICE/IRRIGATION
- UG — ELECTRIC/WATER LINE
- CATCH BASIN/STORM DRAIN
- LIGHT POST/ POWER POLE
- WATER-TABLE ELEVATION CONTOUR DASHED WHERE INFERRED CONTOUR INTERVAL = 1.0 FEET
- (6.63) WATER-TABLE ELEVATION (FEET)
- APPARENT DIRECTION OF GROUNDWATER FLOW
- * DATA NOT USED FOR CONTOURING

0 50' 100'

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

GROUNDWATER CONTOUR MAP FEBRUARY 26, 2013

ARCADIS

FIGURE **4A**

CITY:TAMPA DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* LAYOUT: 4A SAVED: 9/24/2013 3:17 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/27/2013 10:00 AM BY: RICHARDS, JIM
G:\ENVCAD\TAMPA\ACTIB00\38398 UPS Oakland\00\15.003000\1st 2nd GMR HVE 2013\B0038398B01.dwg

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARY
- E — UNDERGROUND ELECTRICAL LINE
- S — STORM WATER/SEWER LINE
- W — WATER/FIRE SERVICE/IRRIGATION
- UG — ELECTRIC/WATER LINE
- CATCH BASIN/STORM DRAIN
- LIGHT POST/ POWER POLE
- 6 — WATER-TABLE ELEVATION CONTOUR DASHED WHERE INFERRED CONTOUR INTERVAL = 2.0 FEET
- (6.63) WATER-TABLE ELEVATION (FEET)
- APPARENT DIRECTION OF GROUNDWATER FLOW
- * DATA NOT USED FOR CONTOURING

0 50' 100'

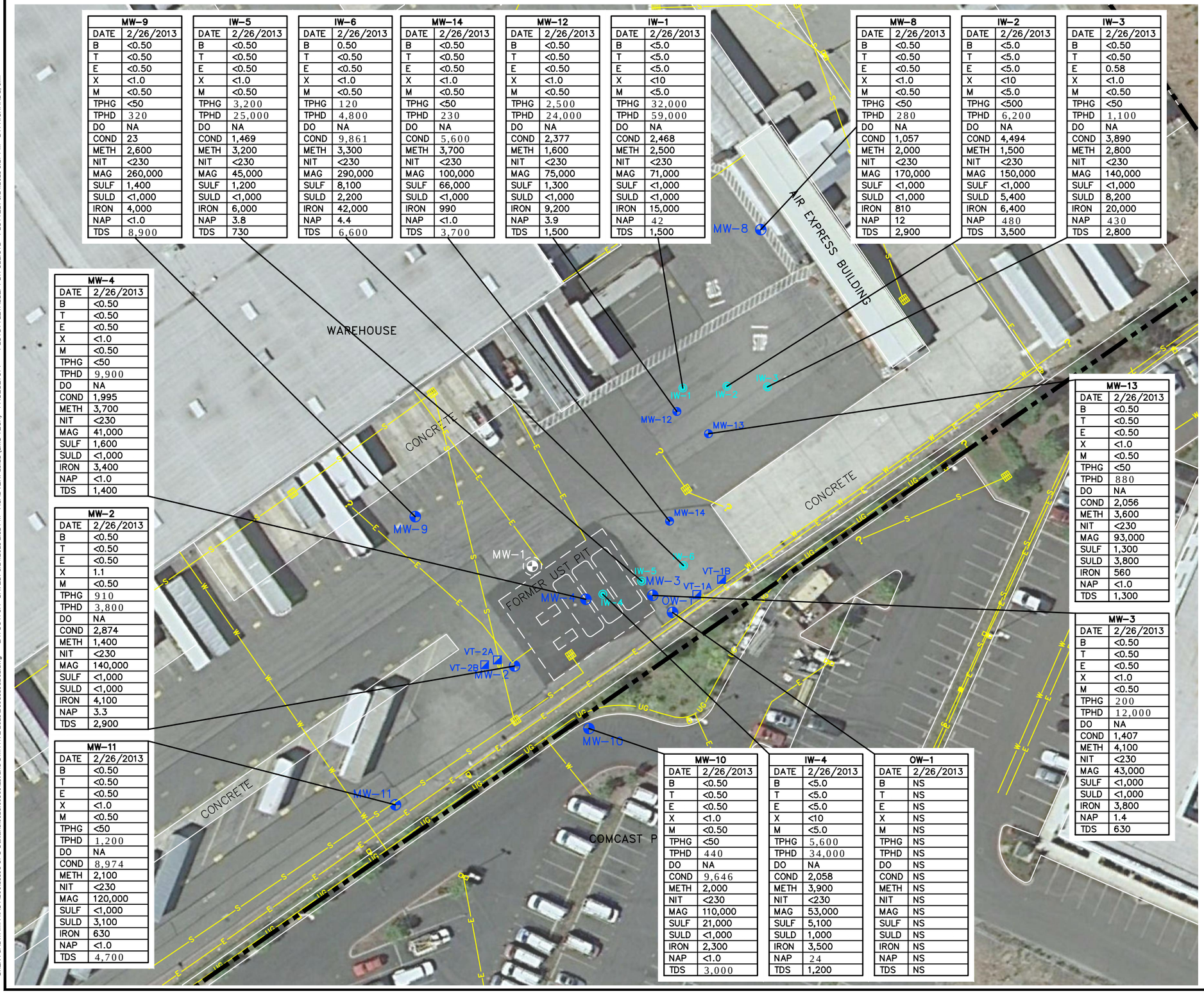
GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

GROUNDWATER CONTOUR MAP JULY 23, 2013

ARCADIS

FIGURE 4B



MW-9	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	320
DO	NA
COND	23
METH	2,600
NIT	<230
MAG	260,000
SULF	1,400
SULD	<1,000
IRON	4,000
NAP	<1.0
TDS	8,900

IW-5	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	3,200
TPHD	25,000
DO	NA
COND	1,469
METH	3,200
NIT	<230
MAG	45,000
SULF	1,200
SULD	<1,000
IRON	6,000
NAP	3.8
TDS	730

IW-6	
DATE	2/26/2013
B	0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	120
TPHD	4,800
DO	NA
COND	9,861
METH	3,300
NIT	<230
MAG	290,000
SULF	8,100
SULD	2,200
IRON	42,000
NAP	4.4
TDS	6,600

MW-14	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	230
DO	NA
COND	5,600
METH	3,700
NIT	<230
MAG	100,000
SULF	66,000
SULD	<1,000
IRON	990
NAP	<1.0
TDS	3,700

MW-12	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	2,500
TPHD	24,000
DO	NA
COND	2,377
METH	1,600
NIT	<230
MAG	75,000
SULF	1,300
SULD	<1,000
IRON	9,200
NAP	3.9
TDS	1,500

IW-1	
DATE	2/26/2013
B	<5.0
T	<5.0
E	<5.0
X	<10
M	<5.0
TPHG	32,000
TPHD	59,000
DO	NA
COND	2,468
METH	2,500
NIT	<230
MAG	71,000
SULF	<1,000
SULD	<1,000
IRON	15,000
NAP	42
TDS	1,500

MW-8	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	280
DO	NA
COND	1,057
METH	2,000
NIT	<230
MAG	170,000
SULF	<1,000
SULD	<1,000
IRON	810
NAP	12
TDS	2,900

IW-2	
DATE	2/26/2013
B	<5.0
T	<5.0
E	<5.0
X	<10
M	<5.0
TPHG	<500
TPHD	6,200
DO	NA
COND	4,494
METH	1,500
NIT	<230
MAG	150,000
SULF	<1,000
SULD	5,400
IRON	6,400
NAP	480
TDS	3,500

IW-3	
DATE	2/26/2013
B	<0.50
T	<0.50
E	0.58
X	<1.0
M	<0.50
TPHG	<50
TPHD	1,100
DO	NA
COND	3,890
METH	2,800
NIT	<230
MAG	140,000
SULF	<1,000
SULD	8,200
IRON	20,000
NAP	430
TDS	2,800

MW-4	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	9,900
DO	NA
COND	1,995
METH	3,700
NIT	<230
MAG	41,000
SULF	1,600
SULD	<1,000
IRON	3,400
NAP	<1.0
TDS	1,400

MW-2	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	1.1
M	<0.50
TPHG	910
TPHD	3,800
DO	NA
COND	2,874
METH	1,400
NIT	<230
MAG	140,000
SULF	<1,000
SULD	<1,000
IRON	4,100
NAP	3.3
TDS	2,900

MW-11	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	1,200
DO	NA
COND	8,974
METH	2,100
NIT	<230
MAG	120,000
SULF	<1,000
SULD	3,100
IRON	630
NAP	<1.0
TDS	4,700

MW-13	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	880
DO	NA
COND	2,056
METH	3,600
NIT	<230
MAG	93,000
SULF	1,300
SULD	3,800
IRON	560
NAP	<1.0
TDS	1,300

MW-3	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	200
TPHD	12,000
DO	NA
COND	1,407
METH	4,100
NIT	<230
MAG	43,000
SULF	<1,000
SULD	<1,000
IRON	3,800
NAP	1.4
TDS	630

MW-10	
DATE	2/26/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	440
DO	NA
COND	9,646
METH	2,000
NIT	<230
MAG	110,000
SULF	21,000
SULD	<1,000
IRON	2,300
NAP	<1.0
TDS	3,000

IW-4	
DATE	2/26/2013
B	<5.0
T	<5.0
E	<5.0
X	<10
M	<5.0
TPHG	5,600
TPHD	34,000
DO	NA
COND	2,058
METH	3,900
NIT	<230
MAG	53,000
SULF	5,100
SULD	1,000
IRON	3,500
NAP	24
TDS	1,200

OW-1	
DATE	2/26/2013
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARY
- CATCH BASIN/STORM DRAIN
- LIGHT POST/ POWER POLE

SAMPLE LOCATION	
DATE	SAMPLE DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER
TPHG	TPH GASOLINE
TPHD	TPH DIESEL
DO	DISSOLVED OXYGEN
COND	CONDUCTIVITY
METH	METHANE
NIT	NITRATE AS NITROGEN
MAG	MAGNESIUM
SULF	SULFATE
SULD	SULFIDE
IRON	IRON
NAP	NAPHTHALENE
TDS	TOTAL DISSOLVED SOLIDS

ALL RESLUTS REPORTED IN MICROGRAMS PER LITER (µg/L), D.O. AND TDS REPORTED IN MILLIGRAMS PER LITER (mg/L), CONDUCTIVITY REPORTED IN MICROSIEMENS (µS)

< = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

I = THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT (MDL) AND THE LABORATORY PRACTICAL QUANTITATION LIMIT (PQL)

BOLD VALUES INDICATE THE CONCENTRATION EXCEEDS THE CLEANUP TARGET LEVEL LISTED IN TABLE I OF CHAPTER 62-777 F.A.C.

NS = NOT SAMPLED

0 50' 100'

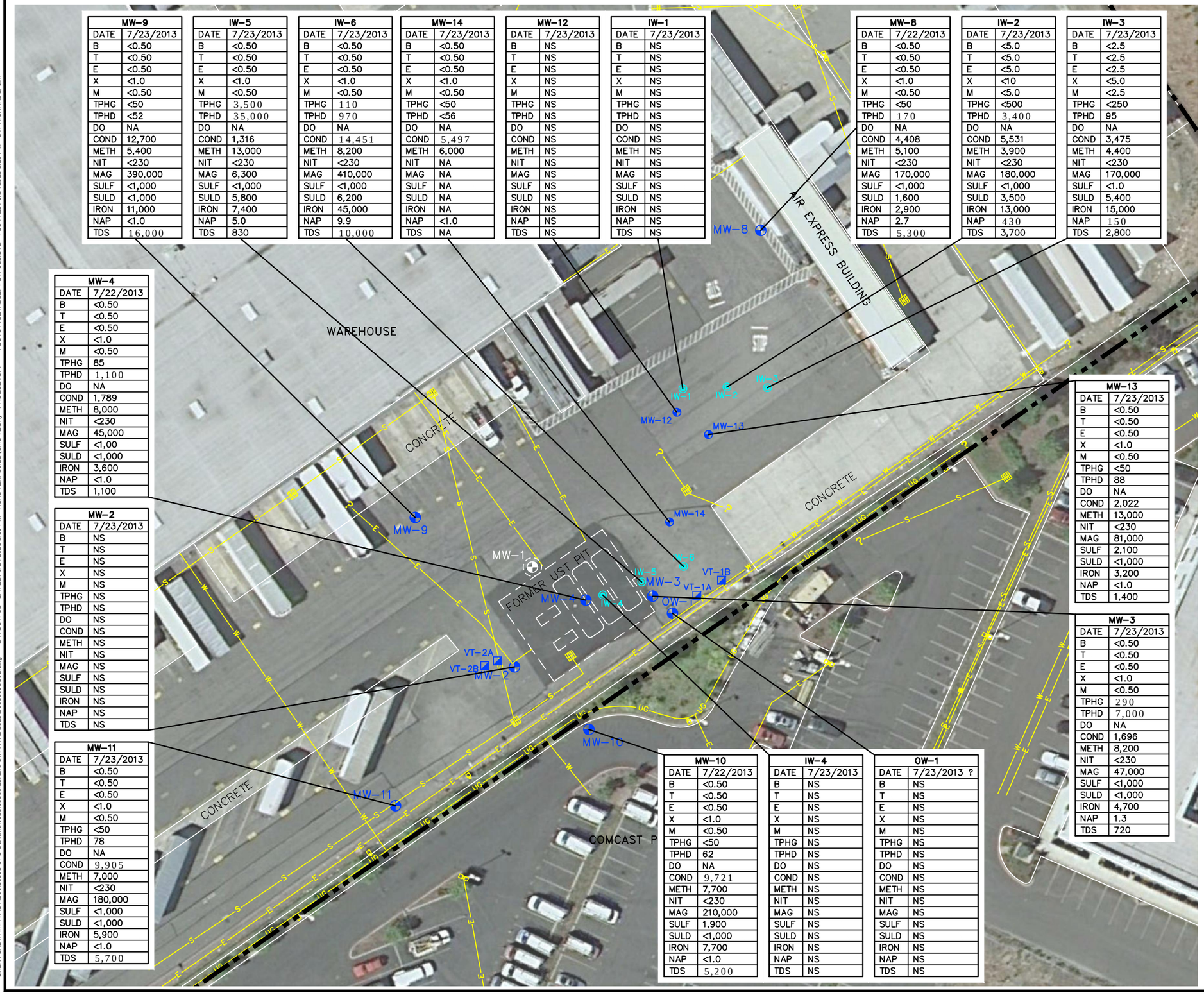
GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

GROUNDWATER QUALITY MAP
FEBRUARY 26, 2013

ARCADIS

FIGURE
5A



MW-9	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	<52
DO	NA
COND	12,700
METH	5,400
NIT	<230
MAG	390,000
SULF	<1,000
SULD	<1,000
IRON	11,000
NAP	<1.0
TDS	16,000

IW-5	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	3,500
TPHD	35,000
DO	NA
COND	1,316
METH	13,000
NIT	<230
MAG	6,300
SULF	<1,000
SULD	5,800
IRON	7,400
NAP	5.0
TDS	830

IW-6	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	110
TPHD	970
DO	NA
COND	14,451
METH	8,200
NIT	<230
MAG	410,000
SULF	<1,000
SULD	6,200
IRON	45,000
NAP	9.9
TDS	10,000

MW-14	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	<56
DO	NA
COND	5,497
METH	6,000
NIT	NA
MAG	NA
SULF	NA
SULD	NA
IRON	NA
NAP	<1.0
TDS	NA

MW-12	
DATE	7/23/2013
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

IW-1	
DATE	7/23/2013
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

MW-8	
DATE	7/22/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	170
DO	NA
COND	4,408
METH	5,100
NIT	<230
MAG	170,000
SULF	<1,000
SULD	1,600
IRON	2,900
NAP	2.7
TDS	5,300

IW-2	
DATE	7/23/2013
B	<5.0
T	<5.0
E	<5.0
X	<10
M	<5.0
TPHG	<500
TPHD	3,400
DO	NA
COND	5,531
METH	3,900
NIT	<230
MAG	180,000
SULF	<1,000
SULD	3,500
IRON	13,000
NAP	430
TDS	3,700

IW-3	
DATE	7/23/2013
B	<2.5
T	<2.5
E	<2.5
X	<5.0
M	<2.5
TPHG	<250
TPHD	95
DO	NA
COND	3,475
METH	4,400
NIT	<230
MAG	170,000
SULF	<1.0
SULD	5,400
IRON	15,000
NAP	150
TDS	2,800

MW-4	
DATE	7/22/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	85
TPHD	1,100
DO	NA
COND	1,789
METH	8,000
NIT	<230
MAG	45,000
SULF	<1,00
SULD	<1,000
IRON	3,600
NAP	<1.0
TDS	1,100

MW-2	
DATE	7/23/2013
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

MW-11	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	78
DO	NA
COND	9,905
METH	7,000
NIT	<230
MAG	180,000
SULF	<1,000
SULD	<1,000
IRON	5,900
NAP	<1.0
TDS	5,700

MW-13	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	88
DO	NA
COND	2,022
METH	13,000
NIT	<230
MAG	81,000
SULF	2,100
SULD	<1,000
IRON	3,200
NAP	<1.0
TDS	1,400

MW-3	
DATE	7/23/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	290
TPHD	7,000
DO	NA
COND	1,696
METH	8,200
NIT	<230
MAG	47,000
SULF	<1,000
SULD	<1,000
IRON	4,700
NAP	1.3
TDS	720

MW-10	
DATE	7/22/2013
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	62
DO	NA
COND	9,721
METH	7,700
NIT	<230
MAG	210,000
SULF	1,900
SULD	<1,000
IRON	7,700
NAP	<1.0
TDS	5,200

IW-4	
DATE	7/23/2013
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

OW-1	
DATE	7/23/2013 ?
B	NS
T	NS
E	NS
X	NS
M	NS
TPHG	NS
TPHD	NS
DO	NS
COND	NS
METH	NS
NIT	NS
MAG	NS
SULF	NS
SULD	NS
IRON	NS
NAP	NS
TDS	NS

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARY
- CATCH BASIN/STORM DRAIN
- LIGHT POST/ POWER POLE

SAMPLE LOCATION	
DATE	SAMPLE DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER
TPHG	TPH GASOLINE
TPHD	TPH DIESEL
DO	DISSOLVED OXYGEN
COND	CONDUCTIVITY
METH	METHANE
NIT	NITRATE AS NITROGEN
MAG	MAGNESIUM
SULF	SULFATE
SULD	SULFIDE
IRON	IRON
NAP	NAPHTHALENE
TDS	TOTAL DISSOLVED SOLIDS

ALL RESLUTS REPORTED IN MICROGRAMS PER LITER (µg/L), D.O. AND TDS REPORTED IN MILLIGRAMS PER LITER (mg/L), CONDUCTIVITY REPORTED IN MICROSIEMENS (µS)

< = INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

I = THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT (MDL) AND THE LABORATORY PRACTICAL QUANTITATION LIMIT (PQL)

BOLD VALUES INDICATE THE CONCENTRATION EXCEEDS THE CLEANUP TARGET LEVEL LISTED IN TABLE I OF CHAPTER 62-777 F.A.C.

NS = NOT SAMPLED

0 50' 100'

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
GLOBAL ID # T0600100939

GROUNDWATER QUALITY MAP
JULY 22-23, 2013

ARCADIS

FIGURE
5B

ARCADIS

Tables

UPS – Oakland Hub

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-1	7.43	8/28/1990	3.80	3.63	0.00	NR
		9/20/1990	3.99	3.44	0.00	NR
		6/19/1991	3.47	3.96	NM	NR
		7/23/1991	3.70	3.73	NM	NR
		8/26/1991	3.92	3.51	NM	NR
		11/18/1991	4.21	3.22	NM	NR
		2/3/1992	3.99	3.44	NM	NR
		6/29/1992	3.38	4.05	NM	NR
		6/23/1993	2.72	4.71	NM	NR
		10/11/1993	3.87	3.56	NM	NR
		1/4/1994	3.34	4.09	NM	NR
		5/10/1994	2.14	5.29	NM	NR
		2/1/1995	1.84	5.59	NM	NR
		8/2/1995	3.10	4.33	NM	NR
		10/16/1995	3.75	3.68	NM	NR
		12/28/1995	3.56	3.87	NM	NR
		6/4/1997	3.16	4.27	0.00	NR
		9/30/1999	3.75	3.68	0.00	NR
		10/11/2000	3.88	3.55	0.00	NR
		9/3/2002	3.73	3.70	0.00	NR
		10/22/2002	5.11	2.32	0.05	NR
		12/23/2002	3.51	3.92	0.00	NR
		3/28/2003	3.52	3.91	0.00	NR
		5/30/2003	3.37	4.06	0.00	NR
		6/20/2003	3.50	3.93	0.00	NR
		7/14/2003	3.65	3.78	0.00	NR
		8/25/2003	3.87	3.56	0.00	NR
		9/9/2003	4.02	3.41	0.00	NR
		9/25/2003	4.10	3.33	0.00	NR
		10/28/2003	4.29	3.14	0.00	NR
		11/18/2003	4.32	3.11	0.00	NR
		12/2/2003	4.34	3.09	0.00	NR
		1/27/2004	3.88	3.55	0.00	NR
		2/24/2004	2.75	4.68	0.00	NR
		3/29/2004	3.45	3.98	0.00	NR
		4/19/2004	3.55	3.88	0.00	NR
		5/20/2004	3.69	3.74	0.00	NR
		6/22/2004	3.81	3.62	0.00	NR
		7/27/2004	3.99	3.44	0.00	NR
		8/24/2004	4.14	3.29	0.00	NR
		9/29/2004	4.32	3.11	0.00	NR
		10/25/2004	3.89	3.54	0.00	NR
		12/15/2004	3.18	4.25	0.00	NR
		1/24/2005	2.69	4.74	0.00	NR
		2/23/2005	2.48	4.95	0.00	NR
		3/23/2005	2.21	5.22	0.00	NR
		4/29/2005	2.57	4.86	0.00	NR
		5/27/2005	2.68	4.75	0.00	NR
		6/29/2005	2.97	4.46	0.00	NR
		7/20/2005	3.13	4.30	0.00	NR
		8/24/2005	3.48	3.95	0.00	NR
		9/27/2005	3.69	3.74	0.00	NR
		10/19/2005	3.87	3.56	0.00	NR
		11/29/2005	3.79	3.64	0.00	NR
		12/29/2005	3.08	4.35	0.00	NR
		1/31/2006	2.91	4.52	0.00	NR
		2/28/2006	2.84	4.59	0.00	NR
		3/27/2006	2.26	5.17	0.00	NR
		4/28/2006	2.40	5.03	0.00	NR
		6/27/2006	3.09	4.34	0.00	NR
		7/31/2006	3.35	4.08	0.00	NR
		8/29/2006	3.60	3.83	0.00	NR
		9/28/2006	3.90	3.53	0.00	NR
		10/27/2006	3.97	3.46	0.00	NR
		11/22/2006	3.64	3.79	0.00	NR
		12/26/2006	3.04	4.39	0.00	NR
		1/25/2007	3.26	4.17	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-1	7.43	2/16/2007	3.12	4.31	0.00	NR
		3/19/2007	2.91	4.52	0.00	NR
		4/26/2007	2.93	4.50	0.00	NR
		5/29/2007	3.15	4.28	0.00	NR
		6/28/2007	3.42	4.01	0.00	NR
		7/30/2007	3.60	3.83	0.00	NR
		8/30/2007	3.85	3.58	0.00	NR
		9/25/2007	4.00	3.43	0.00	NR
		10/29/2007	4.05	3.38	0.00	NR
		11/29/2007	4.10	3.33	0.00	NR
		12/28/2007	3.80	3.63	0.00	NR
		1/24/2008	3.14	4.29	0.00	NR
		2/21/2008	2.44	4.99	0.00	NR
		3/28/2008	2.84	4.59	0.00	NR
		4/30/2008	3.00	4.43	0.00	NR
		5/29/2008	3.24	4.19	0.00	NR
		6/25/2008	3.39	4.04	0.00	NR
		7/29/2008	3.64	3.79	0.00	NR
		8/27/2008	3.85	3.58	0.00	NR
		9/30/2008	4.08	3.35	0.00	NR
		10/31/2008	4.20	3.23	0.00	NR
		11/26/2008	4.14	3.29	0.00	NR
		12/30/2008	3.94	3.49	0.00	NR
		1/22/2009	3.93	3.50	0.00	NR
		4/3/2009	ABANDONED			
MW-2	7.15	8/28/1990	4.98	2.17	0.00	NR
		9/20/1990	4.94	2.21	N/A	NR
		6/19/1991	4.66	2.49	N/A	NR
		7/23/1991	4.81	2.34	N/A	NR
		8/26/1991	4.89	2.26	N/A	NR
		11/18/1991	4.93	2.22	N/A	NR
		2/3/1992	4.44	2.71	N/A	NR
		6/29/1992	4.80	2.35	N/A	NR
		6/23/1993	4.38	2.77	N/A	NR
		10/11/1993	5.20	1.95	N/A	NR
		1/4/1994	4.56	2.59	N/A	NR
		5/10/1994	4.20	2.95	N/A	NR
		2/1/1995	4.00	3.15	N/A	NR
		8/2/1995	4.71	2.44	N/A	NR
		10/16/1995	5.02	2.13	N/A	NR
		12/28/1995	4.56	2.59	N/A	NR
		6/12/1996	NM	--	0.25	NR
		6/4/1997	6.02	1.13	Small globules	NR
		9/30/1999	4.95	2.20	0.00	NR
		10/11/2000	4.97	2.18	0.08	NR
		2/12/2002	4.26	2.89	0.01	24.00
		9/3/2002	5.02	2.13	0.07	NR
		9/27/2002	4.89	2.26	0.09	222.30
		10/22/2002	5.11	2.04	0.05	125.00
		12/23/2002	4.25	2.90	0.04	99.00
		1/16/2003	4.28	2.87	0.02	49.00
		2/12/2003	4.26	2.89	0.01	24.00
		3/28/2003	4.35	2.80	0.01	25.00
		5/30/2003	3.60	3.55	0.02	49.00
		6/20/2003	4.55	2.60	0.01	NR
		7/14/2003	4.56	2.59	0.00	NR
		8/25/2003	4.79	2.36	0.01	25.00
		9/9/2003	4.90	2.25	0.01	NR
		9/25/2003	4.97	2.18	0.01	25.00
		10/28/2003	4.98	2.17	0.04	104.00
		11/18/2003	4.83	2.32	0.00	NR
		12/3/2003	4.87	2.28	0.00	NR
		1/27/2004	7.39	-0.24	0.00	NR
		2/24/2004	4.56	2.59	0.01	NR
		3/29/2004	4.24	2.91	0.01	NR
		4/19/2004	4.50	2.65	0.01	25.00
		5/20/2004	4.53	2.62	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-2	7.15	6/22/2004	4.65	2.50	0.00	NR
		7/27/2004	4.80	2.35	0.00	NR
		8/24/2004	5.93	1.22	0.00	NR
		9/29/2004	5.00	2.15	0.02	50.00
		10/25/2004	4.68	2.47	0.00	NR
		12/15/2004	4.34	2.81	0.02	50.00
		1/24/2005	4.15	3.00	0.00	NR
		2/23/2005	4.95	2.20	0.03	74.00
		3/23/2005	4.96	2.19	0.02	49.00
		4/29/2005	4.23	2.92	0.10	246.00
		5/27/2005	4.20	2.95	0.02	50.00
		6/29/2005	4.29	2.86	0.00	NR
		7/20/2005	4.48	2.67	0.04	98.00
		8/24/2005	4.71	2.44	0.00	NR
		9/27/2005	4.98	2.17	0.03	70.00
		10/19/2005	5.08	2.07	0.00	NR
		11/29/2005	4.68	2.47	0.01	NR
		12/29/2005	4.19	2.96	0.01	NR
		1/31/2006	4.05	3.10	0.00	NR
		2/28/2006	4.16	2.99	0.00	25.00
		3/27/2006	4.11	3.04	0.01	NR
		4/28/2006	4.03	3.12	0.00	NR
		6/27/2006	4.45	2.70	0.01	NR
		7/31/2006	4.60	2.55	0.02	NR
		8/29/2006	4.84	2.31	0.01	NR
		9/28/2006	4.96	2.19	0.03	NR
		10/27/2006	4.98	2.17	0.00	NR
		11/22/2006	4.58	2.57	0.00	NR
		12/26/2006	4.22	2.93	0.02	NR
		1/25/2007	4.44	2.71	0.00	NR
		2/16/2007	4.13	3.02	0.00	NR
		3/19/2007	4.30	2.85	0.01	NR
		4/26/2007	4.17	2.98	0.03	NR
		5/29/2007	4.42	2.73	0.01	25.00
		6/28/2007	5.16	1.99	0.01	25.00
		7/30/2007	4.71	2.44	0.00	NR
		8/30/2007	4.94	2.21	0.03	NR
		9/25/2007	5.06	2.09	0.01	25.00
		10/29/2007	4.75	2.40	0.01	25.00
		11/29/2007	4.69	2.46	0.00	NR
		12/28/2007	4.35	2.80	0.00	NR
		1/24/2008	4.08	3.07	0.00	NR
		2/21/2008	3.97	3.18	0.01	25.00
		3/28/2008	4.18	2.97	0.00	NR
		4/30/2008	4.40	2.75	0.00	NR
		5/29/2008	4.58	2.57	0.01	20.00
		6/25/2008	4.58	2.57	0.00	NR
		7/29/2008	4.85	2.30	0.00	NR
		8/27/2008	4.89	2.26	0.01	25.00
		9/30/2008	5.14	2.01	0.04	98.00
		10/31/2008	5.23	1.92	0.03	NR
		11/26/2008	4.74	2.41	0.04	NR
		12/30/2008	4.33	2.82	0.01	25.00
		1/22/2009	4.45	2.70	0.01	25.00

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-2	9.63	5/5/2010	4.03	5.60	0.13	NR
		10/29/2010	4.98	4.65	0.08	NR
		2/25/2011	3.73	5.90	0.00	NR
		6/14/2011	4.23	5.40	0.00	0.00
		7/19/2011	4.72	4.91	0.01	59.15
		8/18/2011	4.80	4.83	sheen	0.00
		9/1/2011	4.96	4.67	sheen	0.00
		9/20/2011	5.08	4.56	0.01	591.47
		10/19/2011	4.77	4.86	0.01	591.47
		11/22/2011	4.92	4.71	0.01	532.32
		12/26/2011	4.92	4.71	0.01	532.32
		1/23/2012	5.20	4.43	0.28	561.83
		2/15/2012	5.16	4.47	0.03	591.40
		2/29/2012	4.75	4.88	0.02	NR
		3/19/2012	4.42	5.21	0.00	NR
		5/1/2012	4.18	5.45	0.03	532.32
		6/5/2012	4.61	5.02	0.01	NR
		7/3/2012	4.91	4.72	0.03	532.32
		8/1/2012	4.93	4.70	0.01	NR
		8/3/2012	4.985	4.65	0.05	591.47
		10/25/2012	5.49	4.14	0.02	5.0
		11/19/2012	5.21	4.42	0.00	25.0
		12/20/2012	5.76	3.87	0.01	2.0
		1/24/2013	4.81	4.82	0.00	0.0
		2/25/2013	NM	--	--	--
		2/26/2013	4.73	4.90	0.00	5.0
		4/14/2013	NM	--	--	--
		4/22/2013	4.69	4.94	0.00	5.0
		5/15/2013	NM	-	-	-
		5/30/2013	4.99	4.64	0.01	5.0
		6/26/2013	5.23	4.40	0.00	NR
		7/22/2013	5.15	4.48	0.06	NR
		8/12/2013	5.15	4.48	0.02	0.0
MW-2 Product recovered prior to skimmer installation (Pre 6/14/2011):						1826.30
MW-2 Product recovered post skimmer installation (Post 6/14/2011):						5163.07
MW-2 Total product recovered:						6989.37

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-3	7.42	8/28/1990	3.88	3.54	0.00	NR
		9/20/1990	3.99	3.43	0.00	NR
		6/19/1991	3.49	3.93	0.00	NR
		7/23/1991	3.71	3.71	0.00	NR
		8/26/1991	3.94	3.48	0.00	NR
		11/18/1991	4.23	3.19	0.00	NR
		2/3/1992	4.01	3.41	0.00	NR
		6/29/1992	3.40	4.02	0.00	NR
		6/23/1993	2.75	4.67	0.00	NR
		10/11/1993	3.84	3.58	0.00	NR
		1/4/1994	3.40	4.02	0.00	NR
		5/10/1994	2.25	5.17	0.00	NR
		2/1/1995	2.43	4.99	0.00	NR
		8/2/1995	3.20	4.22	0.00	NR
		10/16/1995	3.72	3.70	0.00	NR
		12/28/1995	3.56	3.86	0.00	NR
		6/4/1997	3.20	4.22	0.00	NR
		6/3/1998	NM	--	0.00	NM
		9/30/1999	3.72	3.70	0.00	NR
		10/11/2000	3.88	3.54	0.00	NR
		9/3/2002	3.75	3.67	0.00	NR
		12/23/2002	3.50	3.92	0.00	NR
		3/28/2003	3.56	3.86	0.00	NR
		5/30/2003	3.38	4.04	0.00	NR
		6/20/2003	3.52	3.90	0.00	NR
		7/14/2003	3.65	3.77	0.00	NR
		8/25/2003	3.99	3.43	0.00	NR
		9/9/2003	3.99	3.43	0.00	NR
		9/25/2003	4.06	3.36	0.00	NR
		10/28/2003	4.15	3.27	0.00	NR
		11/18/2003	4.28	3.14	0.00	NR
		12/2/2003	4.31	3.11	0.00	NR
		1/27/2004	3.85	3.57	0.00	NR
		2/24/2004	3.70	3.72	0.00	NR
		3/29/2004	3.47	3.95	0.00	NR
		4/19/2004	3.55	3.87	0.00	NR
		5/20/2004	3.65	3.77	0.00	NR
		6/22/2004	3.83	3.59	0.00	NR
		7/27/2004	3.98	3.44	0.00	NR
		8/24/2004	4.14	3.28	0.00	NR
		9/29/2004	4.30	3.12	0.00	NR
		10/25/2004	3.85	3.57	0.00	NR
		12/15/2004	3.16	4.26	0.00	NR
		1/24/2005	2.65	4.77	0.00	NR
		2/23/2005	2.50	4.92	0.00	NR
		3/23/2005	2.48	4.94	0.00	NR
		4/29/2005	2.59	4.83	0.00	NR
		5/27/2005	2.75	4.67	0.00	NR
		6/29/2005	3.05	4.37	0.00	NR
		7/20/2005	3.10	4.32	0.00	NR
		8/24/2005	3.45	3.97	0.00	NR
		9/27/2005	3.71	3.71	0.00	NR
		10/19/2005	3.73	3.69	0.00	NR
		11/29/2005	3.75	3.67	0.00	NR
		12/29/2005	3.08	4.34	0.00	NR
		1/31/2006	2.99	4.43	0.00	NR
		2/28/2006	2.95	4.47	0.00	NR
		3/27/2006	2.60	4.82	0.00	NR
		4/28/2006	2.90	4.52	0.00	NR
		6/27/2006	3.01	4.41	0.00	NR
		7/31/2006	4.33	3.09	0.00	NR
		8/29/2006	3.62	3.80	0.00	NR
		9/28/2006	3.80	3.62	0.00	NR
		10/27/2006	3.90	3.52	0.00	NR
		11/22/2006	3.60	3.82	0.00	NR
		12/26/2006	3.07	4.35	0.00	NR
		1/25/2007	3.25	4.17	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-3	7.42	2/16/2007	3.09	4.33	0.00	NR
		3/19/2007	2.83	4.59	0.00	NR
		4/26/2007	2.94	4.48	0.00	NR
		5/29/2007	3.18	4.24	0.00	NR
		6/28/2007	3.41	4.01	0.00	NR
		7/30/2007	3.62	3.80	0.00	NR
		8/30/2007	3.84	3.58	0.00	NR
		9/25/2007	4.03	3.39	0.00	NR
		10/29/2007	4.06	3.36	0.00	NR
		11/29/2007	4.10	3.32	0.00	NR
		12/28/2007	3.78	3.64	0.00	NR
		1/24/2008	3.16	4.27	0.00	NR
		2/21/2008	2.41	5.02	0.00	NR
		3/28/2008	2.94	4.48	0.00	NR
		4/30/2008	3.08	4.34	0.00	NR
		5/29/2008	3.24	4.18	0.00	NR
		6/25/2008	3.30	4.12	0.00	NR
		7/29/2008	3.50	3.92	0.00	NR
		8/27/2008	3.84	3.58	0.00	NR
		9/30/2008	4.03	3.39	0.00	NR
		10/31/2008	4.20	3.22	0.00	NR
		11/26/2008	4.23	3.19	0.00	NR
		12/30/2008	3.96	3.46	0.00	NR
		1/22/2009	3.96	3.46	0.00	NR
	9.89	5/5/2010	3.13	6.76	0.02	NR
		10/29/2010	4.70	5.19	0.00	NR
		2/25/2011	1.54	8.35	0.02	NR
		6/14/2011	3.25	6.64	0.05	NR
		7/19/2011	3.53	6.36	0.02	532.32
		8/18/2011	3.98	5.91	sheen	591.47
		9/1/2011	4.12	5.77	sheen	591.47
		9/20/2011	4.41	5.48	sheen	591.47
		10/19/2011	4.34	5.55	sheen	561.90
		11/22/2011	4.75	5.14	sheen	532.32
		12/26/2011	4.70	5.19	sheen	532.32
		1/23/2012	4.11	5.78	0.01	532.26
		2/15/2012	4.90	4.99	0.02	591.40
		2/29/2012	4.14	5.75	0.03	NR
		3/19/2012	2.98	6.91	0.00	NR
		5/1/2012	2.91	6.98	0.01	532.32
		6/5/2012	3.80	6.09	0.00	NR
		7/3/2012	4.22	5.67	0.01	532.32
		8/1/2012	4.58	5.31	0.00	NR
		8/3/2012	4.61	5.28	0.00	532.32
		10/25/2012	5.20	4.69	0.00	NR
		11/19/2012	4.90	4.99	0.00	NR
		12/20/2012	4.00	5.89	0.00	NR
		1/24/2013	3.95	5.94	0.00	NR
		2/25/2013	NM	--	--	--
		2/26/2013	4.25	5.64	0.00	NR
		4/14/2013	NM	--	--	--
		4/22/2013	4.54	5.35	0.00	10.00
		5/15/2013	NM	-	-	-
		5/30/2013	5.01	4.88	0.01	10.00
		6/26/2013	5.13	4.76	0.01	NR
		7/22/2013	5.48	4.41	0.00	NR
		8/12/2013	5.44	4.45	0.00	NR
MW-3 Product recovered prior to skimmer installation (Pre 6/14/2011):						0.00
MW-3 Product recovered post skimmer installation (Post 6/14/2011):						6673.89
MW-3 Total product recovered:						6673.89

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-4	9.77	5/5/2010	2.96	6.81	0.00	
		10/29/2010	4.53	5.24	0.00	NR
		2/25/2011	1.34	8.43	0.00	NR
		9/1/2011	3.99	5.78	0.00	NR
		2/29/2012	3.91	5.86	0.00	NR
		3/19/2012	2.81	6.96	0.00	NR
		6/5/2012	3.59	6.18	0.00	NR
		8/1/2012	4.45	5.32	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	4.09	5.68	0.01	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	5.10	4.67	0.00	NR
		8/12/2013	5.25	4.52	0.00	NR
MW-8	8.22	5/5/2010	2.56	5.66	0.00	NR
		10/29/2010	4.39	3.83	0.00	NR
		2/25/2011	2.69	5.53	0.00	NR
		9/1/2011	3.67	4.55	0.00	NR
		2/29/2012	3.63	4.59	0.00	NR
		3/19/2012	3.37	4.85	0.00	NR
		6/5/2012	3.15	5.07	0.00	NR
		8/1/2012	3.77	4.45	0.00	NR
		2/25/2013	NM	--	--	--
		2/26/2013	3.38	4.84	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	3.90	4.32	0.00	NR
		8/12/2013	4.08	4.14	0.00	NR
MW-9	14.63	5/5/2010	6.28	8.35	0.00	NR
		10/29/2010	6.28	8.35	0.00	NR
		2/25/2011	5.55	9.08	0.00	NR
		9/1/2011	6.05	8.58	0.00	NR
		2/29/2012	5.98	8.65	0.00	NR
		3/19/2012	5.68	8.95	0.00	NR
		6/5/2012	3.76	10.87	0.00	NR
		8/1/2012	6.11	8.52	0.00	NR
		2/25/2013	NM	--	--	--
		2/26/2013	5.91	8.72	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	6.13	8.50	0.00	NR
		8/12/2013	6.29	8.34	0.00	NR
MW-10	9.68	5/5/2010	8.28	1.40	0.00	NR
		10/29/2010	8.27	1.41	0.00	NR
		2/25/2011	4.45	5.23	0.00	NR
		9/1/2011	8.35	1.33	0.00	NR
		2/29/2012	8.32	1.36	0.00	NR
		3/19/2012	7.11	2.57	0.00	NR
		6/5/2012	8.20	1.48	0.00	NR
		8/1/2012	8.34	1.34	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	8.28	1.40	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	8.31	1.37	0.00	NR
		8/12/2013	8.64	1.04	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
MW-11	9.49	5/5/2010	7.21	2.28	0.00	NR
		10/29/2010	6.83	2.66	0.00	NR
		2/25/2011	2.83	6.66	0.00	NR
		9/1/2011	6.05	3.44	0.00	NR
		2/29/2012	5.89	3.60	0.00	NR
		3/19/2012	8.88	0.61	0.00	NR
		6/5/2012	5.68	3.81	0.00	NR
		8/1/2012	6.16	3.33	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	5.96	3.53	0.00	NR
		4/14/2013				
		5/15/2013	NM	-	-	-
		7/22/2013	6.05	3.44	0.00	NR
		8/12/2013	6.43	3.06	0.00	NR
MW-12	9.43	3/19/2012	4.40	5.03	0.18	NR
		6/5/2012	6.31	3.12	0.72	NR
		8/1/2012	7.39	2.04	1.40	NR
		8/3/2012	7.15	2.28	1.30	NR
		10/25/2012	6.74	2.69	0.72	NR
		11/19/2012	6.45	2.98	0.80	NR
		12/20/2012	5.90	3.53	0.90	NR
		1/24/2013	6.53	2.90	1.19	725.00
		2/25/2013	6.55	2.88	1.05	ND
		2/26/2013	7.75	1.68	0.05	30.00
		4/14/2013	5.70	3.73	0.25	ND
		4/22/2013	6.27	3.16	0.46	278.00
		5/15/2013	6.51	2.92	0.42	ND
		5/30/2013	6.67	2.76	0.25	151.00
		6/26/2013	6.82	2.61	0.33	200.00
		7/22/2013	6.69	2.74	0.16	97.00
		8/12/2013	6.73	2.70	0.17	0.00
MW-12 Total product recovered:						1184.00
MW-13	9.10	3/19/2012	3.56	5.54	--	NR
		6/5/2012	4.50	4.60	0.00	NR
		8/1/2012	5.15	3.95	0.01	NR
		2/25/2013	4.61	4.49	0.00	NR
		2/26/2013	3.40	5.70	--	NR
		4/14/2013	4.88	4.22	0.00	NR
		5/15/2013	5.26	3.84	0.00	NR
		7/22/2013	5.58	3.52	0.00	NR
		8/12/2013	5.69	3.41	0.00	NR
MW-14	9.29	3/19/2012	1.86	7.43	--	NR
		6/5/2012	2.53	6.76	--	NR
		8/1/2012	3.69	5.60	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	2.66	6.63	--	NR
		4/14/2013	NM	--	--	--
		5/15/2012	NM	-	-	-
		7/22/2013	4.56	4.73	0.00	NR
		8/12/2013	6.05	3.24	0.00	NR
OW-1	N/A	6/4/1997	7.22	NC	0.01	NR
		9/30/1999	8.35	NC	0.01	NR
		10/11/2000	6.90	NC	0.09	NR
		2/12/2002	5.23	NC	0.01	38.00
		9/27/2002	7.02	NC	0.14	345.78
		10/22/2002	7.34	NC	0.01	40.00
		12/23/2002	5.17	NC	0.03	167.00
		1/16/2003	4.97	NC	0.01	40.00
		2/12/2003	5.23	NC	0.01	38.00
		3/28/2003	5.16	NC	0.01	25.00
		5/30/2003	4.41	NC	0.02	77.00
		6/20/2003	4.93	NC	0.01	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
OW-1	N/A	7/14/2003	5.33	NC	0.00	NR
		8/25/2003	5.85	NC	0.00	NR
		9/9/2003	6.33	NC	0.00	NR
		9/25/2003	6.52	NC	0.01	25.00
		10/28/2003	7.26	NC	0.03	176.00
		11/18/2003	7.29	NC	0.00	NR
		12/2/2003	7.23	NC	0.03	NR
		1/27/2004	7.96	NC	0.01	NR
		2/24/2004	6.26	NC	0.02	NR
		3/29/2004	6.08	NC	0.02	NR
		4/19/2004	6.29	NC	0.03	116.00
		5/20/2004	6.16	NC	0.00	NR
		6/22/2004	6.37	NC	0.00	NR
		7/27/2004	5.67	NC	0.04	225.00
		8/24/2004	6.81	NC	0.00	NR
		9/29/2004	7.08	NC	0.04	153.00
		10/25/2004	6.74	NC	0.04	NR
		12/15/2004	5.33	NC	0.04	155.00
		1/24/2005	3.98	NC	0.00	NR
		2/23/2005	3.44	NC	0.01	NR[5]
		3/23/2005	3.34	NC	0.02	77.00
		4/29/2005	6.89	NC	0.13	501.00
		5/27/2005	7.18	NC	0.11	425.00
		6/29/2005	7.12	NC	0.10	450.00
		7/20/2005	7.20	NC	0.10	556.00
		8/24/2005	7.15	NC	0.06	249.00
		9/27/2005	7.43	NC	0.12	450.00
		10/19/2005	7.48	NC	0.11	425.00
		11/29/2005	7.00	NC	0.04	NR
		12/29/2005	5.22	NC	0.00	NR
		1/31/2006	5.64	NC	0.00	NR
		2/28/2006	6.53	NC	0.01	39.00
		3/27/2006	5.80	NC	0.01	NR
		4/28/2006	6.39	NC	0.00	NR
		6/27/2006	7.82	NC	0.06	NR
		7/31/2006	5.82	NC	0.05	NR
		8/29/2006	7.05	NC	0.07	NR
		9/28/2006	7.10	NC	0.02	NR
		10/27/2006	7.27	NC	0.02	NR
		11/22/2006	7.05	NC	0.02	NR
		12/26/2006	6.73	NC	0.03	NR
		1/25/2007	7.15	NC	0.00	NR
		2/16/2007	7.71	NC	0.01	NR
		3/19/2007	6.77	NC	0.02	NR
		4/26/2007	6.66	NC	0.01	NR
		5/29/2007	6.86	NC	0.02	76.00
		6/28/2007	6.97	NC	0.20	75.00
		7/30/2007	7.06	NC	0.01	NR
		8/30/2007	7.25	NC	0.03	NR
		9/25/2007	7.25	NC	0.03	115.00
		10/29/2007	7.43	NC	0.02	78.00
		11/29/2007	7.37	NC	0.00	NR
		12/28/2007	7.28	NC	0.01	40.00
		1/24/2008	6.61	NC	0.01	38.00
		2/21/2008	6.33	NC	0.01	37.00
		3/28/2008	6.80	NC	0.01	NR
		4/30/2008	7.44	NC	0.03	166.90
		5/29/2008	7.09	NC	0.01	38.00
		6/25/2008	7.07	NC	0.02	112.00
		7/29/2008	7.34	NC	0.00	NR
		8/27/2008	7.28	NC	0.02	78.00
		9/30/2008	7.82	NC	0.03	167.00
		10/31/2008	7.31	NC	0.01	NR
		11/26/2008	6.93	NC	0.01	NR
		12/30/2008	7.25	NC	0.02	112.00
		1/22/2009	7.05	NC	0.01	56.00

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
OW-1	9.55	5/5/2010	7.08	2.47	0.06	NR
		10/29/2010	7.37	2.18	0.08	NR
		2/25/2011	6.17	3.38	0.05	NR
		6/14/2011	6.78	2.77	0.08	0.00
		7/19/2011	7.30	2.25	0.20	118.29
		8/18/2011	7.35	2.20	0.03	147.87
		9/1/2011	7.35	2.20	0.03	147.87
		9/20/2011	7.41	2.14	0.04	591.47
		10/19/2011	7.42	2.13	0.03	532.32
		11/22/2011	7.09	2.46	0.03	29.57
		12/26/2011	7.32	2.23	0.02	147.87
		1/23/2012	6.90	2.65	0.30	532.26
		2/15/2012	7.32	2.23	0.02	591.40
		2/29/2012	7.54	2.01	0.08	NR
		3/19/2012	7.25	2.30	0.01	NR
		5/1/2012	7.14	2.41	0.01	532.32
		6/5/2012	8.55	1.00	0.01	NR
		7/3/2012	7.63	1.92	0.04	295.70
		8/1/2012	7.81	1.74	0.00	NR
		8/3/2012	7.50	2.05	0.14	591.47
		10/25/2012	7.34	2.21	0.02	5.0
		11/19/2012	7.26	2.29	0.20	10.0
		12/20/2012	6.93	2.62	0.03	5.0
		1/24/2013	6.89	2.66	0.03	10.0
		2/25/2013	NM	--	--	--
		2/26/2013	7.72	1.83	0.03	15.0
		4/14/2013	NM	--	--	--
		4/22/2013	7.68	1.87	0.03	15.0
		5/15/2013	NM	-	-	-
		5/30/2013	7.50	2.05	0.05	20.0
		6/26/2013	7.56	1.99	0.05	NR
		7/22/2013	7.84	1.71	0.10	5.0
		8/12/2013	7.55	2.00	0.01	NR
OW-1 Product recovered prior to skimmer installation (Pre 6/14/2011):						5943.68
OW-1 Product recovered post skimmer installation (Post 6/14/2011):						4338.41
OW-1 Total product Recovered:						10282.09
IW-1	9.50	3/19/2012	4.38	5.12	0.00	NR
		6/5/2012	6.24	3.26	0.59	NR
		8/1/2012	7.29	2.21	1.23	NR
		8/3/2012	7.01	2.49	1.10	NR
		10/25/2012	7.05	2.45	1.00	NR
		11/19/2012	6.50	3.00	0.90	NR
		12/20/2012	5.85	3.65	0.74	NR
		1/24/2013	6.54	2.96	1.13	690.00
		2/25/2013	6.50	3.00	0.85	ND
		2/26/2013	8.72	0.78	0.91	550.00
		4/14/2013	5.64	3.86	0.84	ND
		4/22/2013	6.56	2.94	0.66	400.00
		5/15/2013	6.79	2.71	0.23	ND
		5/30/2013	6.93	2.57	0.47	284.00
		6/26/2013	6.98	2.52	0.54	327.00
		7/22/2013	6.89	2.61	0.36	218.00
		8/12/2013	6.95	2.55	0.61	370.00
IW-1 Total product Recovered:						1924.00

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
IW-2	9.02	3/19/2012	4.15	4.87	0.00	NR
		6/5/2012	4.76	4.26	0.00	NR
		8/1/2012	5.54	3.48	0.00	NR
		2/25/2013	7.04	1.98	0.00	NR
		2/26/2013	5.85	3.17	0.00	NR
		4/14/2013	5.16	3.86	0.00	NR
		5/15/2013	5.21	3.81	0.00	NR
		7/22/2013	5.60	3.42	0.00	NR
		8/12/2013	5.71	3.31	0.00	NR
IW-3	8.93	3/19/2012	4.23	4.70	0.00	NR
		6/5/2012	3.82	5.11	0.00	NR
		8/1/2012	4.77	4.16	0.00	NR
		2/25/2013	5.90	3.03	0.00	NR
		2/26/2013	4.42	4.51	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2012	NM	-	-	-
		7/22/2013	4.80	4.13	0.00	NR
		8/12/2013	5.23	3.70	0.00	NR
IW-4	9.96	3/19/2012	3.00	6.96	0.00	NR
		6/5/2012	3.77	6.19	0.00	NR
		8/1/2012	4.64	5.32	0.01	NR
		2/25/2013	NM	-	-	-
		2/26/2013	4.29	5.67	0.01	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	NM	-	-	-
		8/12/2013	5.45	4.51	0.00	NR
IW-5	9.88	3/19/2012	2.92	6.96	0.00	NR
		6/5/2012	3.68	6.20	0.00	NR
		8/1/2012	4.72	5.16	0.00	NR
		2/25/2013	NM	-	-	-
		2/26/2013	4.58	5.30	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	5.38	4.50	0.00	NR
		8/12/2013	5.25	4.63	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation* (ft-amsl)	Date	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
IW-6	9.67	3/19/2012	3.15	6.52	0.00	NR
		6/5/2012	3.74	5.93	0.00	NR
		8/1/2012	4.36	5.31	0.01	NR
		2/25/2013	NM	-	-	-
		2/26/2013	4.10	5.57	0.00	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	-	-	-
		7/22/2013	5.09	4.58	0.00	NR
		8/12/2013	5.23	4.44	0.00	NR

Total product recovered from skimmers (MW-2, MW-3 and OW-1):	
Total product recovered prior to skimmer installation (mL):	7770.0
Total product recovered prior to skimmer installation (oz):	262.0
Total product recovered prior to skimmer installation (gal):	2.05
Total product recovered post skimmer installation (mL):	16175.4
Total product recovered post skimmer installation (oz):	546.0
Total product recovered post skimmer installation (gal):	4.27
Total product recovered from wells without skimmers (mL):	3108.00
Total product recovered from wells without skimmers (oz):	106.00
Total product recovered from wells without skimmers (gal):	0.83
Total product recovered (mL):	27053.4
Total product recovered (oz):	914.0
Total product recovered (gal):	7.14

Notes:
* Reference elevation surveyed relative to mean sea level and California State Coordinate System, Zone III (NAD83)
2. Sources: Geraghty and Miller, 1996; BBL
3. Acronyms and Abbreviations: NM = Not measured; NC = Not calculated; N/A= Not Available; NR = No Recovery
4. ft-btoc = feet below top of casing
5. ft-amsl = feet above mean sea level
6. NR = not recovered
7. mL = milliliters
8. oz = ounces
9. gal = gallons
10 - = no data
11. ND = not determined; due to the method used for HVE, a distinction could not be made between the volume and water and volume of product recovered
12. Volume of product recovered on 9/27/02 and 3/23/05 calculated based on measurements from field data sheets

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS AND BASELINE SAMPLING SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	Temperature °C	pH	Conductivity µs	EDB µg/L	1,2-DCA µg/L	Methane µg/L	Nitrate as Nitrogen µg/L	Magnesium µg/L	Sulfate µg/L	Sulfide µg/L	Iron µg/L	Naphthalene µg/L	TDS (mg/L)
Field Analysis	--	--	--	--	--	--	--	--	--	--	--	5,000	--	--	--	--	--	--	--	--	--	3,000
ESL - Drinking Water	--	1	40	30	20	5	100	100	--	--	--	--	0.05	0.5	--	--	--	--	--	--	17	--
ESL - Non-Drinking Water	--	46	130	43	100	1800	210	210	--	--	--	--	150	200	--	--	--	--	--	--	24	--
MW-1	8/28/1990	3.00	1.40	4.00	2.40	NA	NA	21,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/19/1991	1.70	0.70	0.50	0.90	NA	NA	7,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/23/1991	1.60	1.10	0.50	1.50	NA	220	8,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/26/1991	180.00	120.00	31.00	160.00	NA	NA	2,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/1991	1.10	0.40	0.50	< 0.3	NA	NA	6,600	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/3/1992	0.90	< 0.3	0.80	0.70	NA	NA	2,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/29/1992	0.80	0.40	0.40	0.90	NA	NA	2,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/23/1993	0.66	< 0.5	0.50	< 0.5	NA	NA	3,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/1993	1.30	< 0.5	< 0.5	< 0.5	NA	NA	9,600	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/1994	2.10	0.65	1.30	2.10	NA	NA	12,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/10/1994	0.54	0.53	< 0.5	1.10	NA	NA	6,400	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/1995	< 1.0	< 1.0	1.00	< 1.0	NA	510	10,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	510	8,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/16/1995	2.80	< 0.5	< 0.5	< 0.5	NA	830	15,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/28/1995	2.10	< 0.5	< 0.5	< 0.5	NA	560	15,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	28,000	0.76	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/1999	< 0.5	0.60	< 0.5	1.80	<3.0	1,600	28,000	9.90	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5	260	21,000	0.39	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/3/2002	<0.5	<0.5	<0.5	0.50	<0.5	1,00	38,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2003	<5	<5	<5	<10	<5.0	250	35,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/9/2003	<0.5	<0.5	<0.5	<1.0	0.60	440	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/19/2004	3.20	<2.5	<2.5	<5.0	<2.5	280	24,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/29/2004	<1.0	<1.0	<1.0	<2.0	2.10	1,400 g	150,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	550 Q1	15,000 Q2	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/2005	< 0.50	< 0.50	< 0.50	<1.0	0.94	310	7,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/27/2006	< 0.50	< 0.50	< 0.50	<1.0	0.62	420	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/28/2006	< 0.50	< 0.50	< 0.50	<1.0	0.87	220	28,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/19/2007	< 0.50	< 0.50	< 0.50	<1.0	<1.0	940	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2007	<0.50	<0.50	<0.50	1.1	<0.50	240	9,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	55	13,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	280	9,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/3/2009	ABANDONED																				
MW-2	8/28/1990	0.60	0.40	0.60	0.70	NA	NA	3,500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/19/1991	0.50	< 0.3	< 0.3	< 0.3	NA	NA	<500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/23/1991	0.70	< 0.3	< 0.3	< 0.3	NA	<500	660	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/26/1991	0.70	< 0.3	< 0.3	< 0.3	NA	NA	<500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/1991	0.80	< 0.3	< 0.3	< 0.3	NA	NA	3,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/3/1992	0.70	< 0.3	< 0.3	0.50	NA	NA	400	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/29/1992	0.60	< 0.3	< 0.3	< 0.3	NA	NA	250	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/23/1993	0.55	< 0.5	< 0.5	< 0.5	NA	NA	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/1993	1.20	< 0.5	< 0.5	1.30	NA	NA	1,400	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/1994	0.72	< 0.5	< 0.5	1.10	NA	NA	3,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/10/1994	0.74	< 0.5	< 0.5	0.70	NA	NA	2,300	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/1995	2.10	< 1.0	< 1.0	< 1.0	NA	<100	2,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	210	3,600	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/16/1995	0.73	< 0.5	< 0.5	< 0.5	NA	130	1,400	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	210	2,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/12/1996	NS	NS	NS	NS	NS	NS	--	NS	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	3,300	0.52	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/1999	< 0.5	< 0.5	< 0.5	< 1.0	< 3.0	220	6,300	9.50	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	170	4,400	0.43	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2002	0.7J	<2.5	<2.5	<2.5	<2.5	17000	67,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2003	<25	<25	<25	<50	<25	1600	10,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2003	0.52	<0.50	<0.50	<1.0	<0.50	150	12,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/29/2004	0.51	<0.50	<0.50	<1.0	<0.50	84 g	7,800 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	630 g	10,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	2,300 Q1	15,000 Q2	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/2005	<1.0	<1.0	<1.0	<2.0	<1.0	1,900	22,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/27/2006	<1.0	<1.0	<1.0	<2.0	<1.0	710	8,900	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/28/2006	<0.50	<0.50	<0.50	<1.0	<0.50	62	7,500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/19/2007	<0.50	<0.50	<0.50	<1.0	<0.50	<50	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2007	<0.50	<0.50	<0.50	<1.0	<0.50	55	8,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	210	6,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	220	23,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	<50	3,700	NA	NM	NM	NM	<0.5	<0.6	NA	NA	NA	NA	NA	NA	<1.0	2,800
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	360	37,000	NA	NM	NM	3,236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	0.59	4.90	0.98	10.0	<0.50	140	4,600	NA	NM	NM	4,240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	0.52	<0.50	1.7	<0.50	510	13,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	2.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	110,000	3,300	NA	9,500	NA	2,400 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	< 0.50	2.0	<0.50	110	13,000	NA	NM	NM	3,682	NA	NA	810	< 230	NA	<1,000	<1,000	1,800	NA	2,700
	2/26/2013	<0.50	<0.50	<0.50	1.1	<0.50	***910***	***38,000***	NA	18.20	7.62	2,847	NA	NA	1,400	<230	140,000	<1,000	<1,000	4,100	3.3	2,900
	7/23/2013	NS	NS	NS	NS	NS	NS	NS	NA	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS AND BASELINE SAMPLING SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	Temperature °C	pH	Conductivity µs	EDB µg/L	1,2-DCA µg/L	Methane µg/L	Nitrate as Nitrogen µg/L	Magnesium µg/L	Sulfate µg/L	Sulfide µg/L	Iron µg/L	Naphthalene µg/L	TDS (mg/L)
Field Analysis	--	--	--	--	--	--	--	--	--	--	--	5,000	--	--	--	--	--	--	--	--	--	3,000
ESL - Drinking Water	--	1	40	30	20	5	100	100	--	--	--	--	0.05	0.5	--	--	--	--	--	--	17	--
ESL - Non-Drinking Water	--	46	130	43	100	1800	210	210	--	--	--	--	150	200	--	--	--	--	--	--	24	--
MW-3	8/28/1990	0.50	0.80	4.30	2.30	NA	NA	18,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/19/1991	0.40	0.40	1.70	1.40	NA	NA	1,300	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/23/1991	0.30	< 0.3	1.50	0.50	NA	330	6,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/26/1991	13.00	13.00	5.80	26.00	NA	NA	<50	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/1991	0.60	< 0.3	< 0.3	< 0.3	NA	NA	2,500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/3/1992	0.40	< 0.3	1.30	0.60	NA	NA	1,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/29/1992	< 0.3	< 0.3	1.30	0.30	NA	NA	3,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/23/1993	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	8,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/1993	1.00	< 0.5	1.50	2.40	NA	NA	7,100	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/4/1994	< 0.5	< 0.5	1.60	< 0.5	NA	NA	7,400	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/10/1994	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	5,700	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/1995	< 1.0	< 1.0	2.70	4.10	NA	810	10,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	1200	6,500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/16/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	930	9,800	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	690	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	34,000	0.84	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/1999	< 0.5	0.60	0.70	1.20	< 3.0	1300	8,700	8.60	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	430	20,000	0.51	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/3/2002	<0.5	<0.5	<0.5	<0.5	<0.5	2,300	14,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2003	<25	<25	<25	<50	<25	2,500	19,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/9/2003	<0.5	<0.5	<0.5	<1.0	<0.5	700	73,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/19/2004	<0.50	<0.50	<0.50	<1.0	<0.50	99	14,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	390 g	10,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2005	<2.5	<2.5	<2.5	<5.0	<2.5	330 Q1	14,000 Q2	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/2005	< 1.0	< 1.0	<1.0	< 2.0	< 1.0	1,200	8,300	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/27/2006	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	430	13,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/28/2006	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	370	17,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/19/2007	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	510	26,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2007	<1.0	<1.0	<1.0	<2.0	<1.0	390	11,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	280	21,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	270	9,500	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	<150	24,000	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	2.2	910
	2/25/2011	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	1.70	<0.50	2.1	<0.50	450	24,000	NA	NM	NM	1,378	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	<0.50	<0.50	1.3	<0.50	520	13,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	2.1	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	47,000	7,900	NA	5,800	NA	770 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	1.1	<0.50	1,200	43,000	NA	NM	NM	NM	NA	NA	3,200	<230	NA	<1,000	< 1,000	4,600	NA	780
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	***200***	***12,000***	NA	16.70	7.96	1,407	NA	NA	4,100	<230	43,000	<1,000	<1,000	3,800	1.4	630
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	***290***	***7,000***	NA	25.28	7.16	1,696	<0.50	<0.50	8,200	<230	47,000	<1,000	<1,000	4,700	1.3	720
MW-4	5/5/2010	NA	NA	NA	NA	NA	<50	5,200	NA	NM	NM	NM	<5.0	<5.0	NA	NA	NA	NA	NA	NA	<1.0	1,100
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	150	2,000	NA	NM	NM	1,940	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	250	24,000	NA	NM	NM	2,006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	430	7,700	NA	NM	NM	1,470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	<0.50	<0.50	<1.0	<0.50	150	12,000	NA	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NA	NA	NA	NA	NA	51,000	4,400	NA	22,000	NA	1,200 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.56	NM	NM	1,952	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	69	6,400	NA	NM	NM	NM	NA	NA	6,600	<230 H	NA	1,400	<1,000	2,400	NA	1,000
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***9,900***	NA	16.70	7.85	1,995	NA	NA	3,700	<230	41,000	1,600	<1,000	3,400	<1.0	1,400
	7/22/2013	<0.50	<0.50	<0.50	<1.0	<0.50	86	***1,100***	NA	24.56	7.05	1,789	<0.50	<0.50	8,000	<230	45,000	<1,000	<1,000	3,600	<1.0	1,100
MW-8	5/5/2010	NA	NA	NA	NA	NA	<50	70	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<1.0	2,900
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	1,100	NA	NM	NM	9,599	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	280	NA	NM	NM	9,379	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	200	NA	NM	NM	9,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	120	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	170,000	1,600	NA	1,900	NA	5,800 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.85	NM	NM	3,634	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	160	NA	NM	NM	NM	NA	NA	1,100	<230 H	NA	<1,000	1,600	5,600	NA	4,900
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***280***	NA	18.10	6.94	1,057	NA	NA	2,000	<230	170,000	<1,000	1,500	810	12	2,900
	7/22/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**170**	NA	22.56	6.81	4,408	<0.50	<0.50	5,100	<230	170,000	<1,000	1,600	2,900	2.7	**5,300**
MW-9	5/5/2010	NA	NA	NA	NA	NA	<50	110	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<1.0	6,200
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	580	NA	NM	NM	6,065	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	0.55	<0.50	<1.0	<0.50	<50	240	NA	NM	NM	2,358	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	160	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	170,000	4,000	NA	9,600	NA	10,000 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.87	NM	NM	5,322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	210	NA	NM	NM	NM	NA	NA	2,100	<230 H	NA	<1,000	<1,000	13,000	NA	11,000
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***320***	NA	19.30	6.75	22.83	NA	NA	2,600	<230	260,000	1,400	<1,000	4,000	<1.0	**8,900**
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<52	NA	24.44	6.51	**12,700**	<0.50	<0.50	5,400	<230	390,000	<1,000	<1,000	11,000	<1.0	**16,000**

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS AND BASELINE SAMPLING SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	Temperature °C	pH	Conductivity µs	EDB µg/L	1,2-DCA µg/L	Methane µg/L	Nitrate as Nitrogen µg/L	Magnesium µg/L	Sulfate µg/L	Sulfide µg/L	Iron µg/L	Naphthalene µg/L	TDS (mg/L)
Field Analysis	--	--	--	--	--	--	--	--	--	--	--	5,000	--	--	--	--	--	--	--	--	--	3,000
ESL - Drinking Water	--	1	40	30	20	5	100	100	--	--	--	--	0.05	0.5	--	--	--	--	--	--	17	--
ESL - Non-Drinking Water	--	46	130	43	100	1800	210	210	--	--	--	--	150	200	--	--	--	--	--	--	24	--
MW-10	5/5/2010	NA	NA	NA	NA	NA	<50	110	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<1.0	2,100
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	650	NA	NM	NM	9,550	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	5,600	NA	NM	NM	3,508	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	250	NA	NM	NM	9,334	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	170	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.61	NM	NM	3,540	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	280	NA	NM	NM	NM	NA	NA	2,800	<230 H	NA	<1,000	<1,000	4,200	NA	3,700
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***440***	NA	18.20	7.43	**9,646**	NA	NA	2,000	<230	110,000	21,000	<1,000	2,300	<1.0	3,000
	7/22/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	62	NA	22.83	6.84	**9,721**	<0.50	<0.50	7,700	<230	210,000	1,900	<1,000	7,700	<1.0	**5,200**
MW-11	5/5/2010	NA	NA	NA	NA	NA	<50	430	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<1.0	10,000
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	7,200	NA	NM	NM	17,500	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	1,900	NA	NM	NM	525	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	1,100	NA	NM	NM	7,444	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	0.53	<0.50	<0.50	<1.0	<0.50	<50	1,200	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.91	NM	NM	3,097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	860	NA	NM	NM	NM	NA	NA	2,800	<230 H	NA	<1,000	1,400	3,900	NA	4,900
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***1,200***	NA	17.80	7.32	**8,974**	NA	NA	2,100	<230	120,000	<1,000	3,100	630	<1.0	**4,700**
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	78	NA	21.83	6.76	**9,905**	<0.50	<0.50	7,000	<230	180,000	<1,000	<1,000	5,900	<1.0	**5,700**
MW-12	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	***2,500***	***24,000***	NA	18.50	7.37	2,377	NA	NA	1,600	<230	75,000	1,300	<1,000	9,200	3.9	1,500
	7/23/2013	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	3/19/2012	NA	NA	NA	NA	NA	NA	690	NA	NM	NM	NM	NA	NA	NA	NA	160,000	100,000	NA	390,000	NA	2,000 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.52	NM	NM	2,972	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	1.0	<0.50	<50	750	NA	NM	NM	NM	NA	NA	4,500	<230 H	98,000	3,300	4,300	1,100	NA	1,400
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***880***	NA	17.70	7.46	2,056	NA	NA	3,600	<230	93,000	1,300	3,800	560	<1.0	1,300
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	88	NA	25.78	6.90	2,022	<0.50	<0.50	13,000	<230	81,000	2,100	<1,000	3,200	<1.0	1,400
MW-14	3/19/2012	NA	NA	NA	NA	NA	NA	260	NA	NM	NM	NM	NA	NA	NA	NA	180,000	94,000	NA	9,100	NA	8,400
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.96	NM	NM	4,872	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	<50	370	NA	NM	NM	NM	NA	NA	2,200	<230 H	270,000	53,000	4,500	9,100	NA	8,700
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***230***	NA	15.80	6.36	**5,600**	NA	NA	3,700	<230	100,000	66,000	<1,000	990	<1.0	**3,700**
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<56	NA	26.00	6.53	**5,497**	<0.50	<0.50	6,000	NA	NA	NA	NA	NA	<1.0	NA
OW-1	6/23/1993	< 0.5	< 0.5	< 0.5	31.00	NA	NA	34,000,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/4/1997	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/1999	< 2.0	< 2.0	< 2.0	4.20	< 12.0	8,300	28,000,000	9.70	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/1999	< 1.0	< 1.0	1.90	8.90	< 6.0	2,900	340,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	2,100	58,000	0.74	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/27/2002	0.6J	<2.5	<2.5	<2.5	<2.5	17,000	23,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2003	<50	<50	<50	<100	<50	820	81,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2003	<50	530	500	6200	<50	220	91,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	510	280,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	2,800 g	440,000 ndp	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	220 Q1	16,000 Q2	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/2005	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	650	30,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/27/2006	<13	<13	<13	<25	<13	<1,300	58,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/28/2006	<2.5	<2.5	<2.5	<5.0	<2.5	820	130,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/19/2007	<2.5	<2.5	<2.5	<5.0	<2.5	460	76,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2007	<2.0	<2.0	<2.0	<4.0	<2.0	<200	42,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	1,700	120,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	340	180,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	74	7,000	NA	NM	NM	NM	<0.50	<0.50	NA	NA	NA	NA	NA	NA	<1.0	1,800
	2/25/2011	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/29/2012	<5.0	<5.0	<5.0	<10.0	<5.0	1200	27,000	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	NA
	3/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	78,000	34,000	NA	19,000	NA	2,400 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<5.0	<5.0	<5.0	1.8	<0.50	510	75,000	NA	NM	NM	NM	NA	NA	3,800	<230	NA	16,000	<1,000	19,000	NA	2,300
	2/26/2013	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/22/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS AND BASELINE SAMPLING SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	Temperature °c	pH	Conductivity µs	EDB µg/L	1,2-DCA µg/L	Methane µg/L	Nitrate as Nitrogen µg/L	Magnesium µg/L	Sulfate µg/L	Sulfide µg/L	Iron µg/L	Naphthalene µg/L	TDS (mg/L)
Field Analysis	--	--	--	--	--	--	--	--	--	--	--	5,000	--	--	--	--	--	--	--	--	--	3,000
ESL - Drinking Water	--	1	40	30	20	5	100	100	--	--	--	--	0.05	0.5	--	--	--	--	--	--	17	--
ESL - Non-Drinking Water	--	46	130	43	100	1800	210	210	--	--	--	--	150	200	--	--	--	--	--	--	24	--
IW-1	3/19/2012	NA	NA	NA	NA	NA	NA	16,000	NA	NM	NM	NM	NA	NA	NA	NA	97,000	4,500	NA	210,000	NA	1,500 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.48	NM	NM	2,639	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	NS	NS	NS	NS	NS	NS	NS	NA	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/2013	<5.0	<5.0	<5.0	<10	<5.0	***32,000***	***59,000***	NA	18.80	7.28	2,468	NA	NA	2,500	<230	71,000	<1,000	<1,000	15,000	***42***	1,500
	7/23/2013	NS	NS	NS	NS	NS	NS	NS	NA	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
IW-2	3/19/2012	NA	NA	NA	NA	NA	NA	2,500	NA	NM	NM	NM	NA	NA	NA	NA	95,000	99,000	NA	8,200	NA	3,000
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.51	NM	NM	1,443	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<5.0	<5.0	0.74	1.4	<0.50	130	3,000	NA	NM	NM	NM	NA	NA	4,500	<230	180,000	4,000	6,400	8,000	NA	2,800
	2/26/2013	<5.0	<5.0	<5.0	<10	<5.0	<500	***6,200***	NA	17.90	7.45	4,494	NA	NA	1,500	<230	150,000	<1,000	5,400	6,400	***480***	**3,500**
	7/23/2013	<5.0	<5.0	<5.0	<10	<5.0	<500	***3,400***	NA	25.28	6.46	5,531	<5.0	<5.0	3,900	<230	180,000	<1,000	3,500	13,000	***430***	**3,700**
IW-3	3/19/2012	NA	NA	NA	NA	NA	NA	2,400	NA	NM	NM	NM	NA	NA	NA	NA	110,000	43,000	NA	30,000	NA	3,100
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.61	NM	NM	2,471	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	91	650	NA	NM	NM	NM	NA	NA	3,800	<230	130,000	<1,000	2,200	16,000	NA	2,700
	2/26/2013	<0.50	<0.50	0.58	<1.0	<0.50	<50	***1,100***	NA	17.70	7.02	3,890	NA	NA	2,800	<230	140,000	<1,000	8,200	20,000	***430***	2,800
	7/23/2013	<2.5	<2.5	<2.5	<5.0	<2.5	<250	95	NA	25.56	6.79	3,475	<2.5	<2.5	4,400	<230	170,000	<1.0	5,400	15,000	***150***	2,800
IW-4	3/19/2012	NA	NA	NA	NA	NA	NA	110,000	NA	NM	NM	NM	NA	NA	NA	NA	190,000	17,000	NA	350,000	NA	1,400 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.45	NM	NM	1,809	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	0.76	<0.50	<1.0	<0.50	160	250,000	NA	NM	NM	NM	NA	NA	1,900	<230 H	300,000	5,300	12,000	1,700	NA	1,100
	2/26/2013	<5.0	<5.0	<5.0	<10	<5.0	***5,600***	***34,000***	NA	17.00	7.02	2,058	NA	NA	3,900	<230	53,000	5,100	1,000	3,500	**24**	1,200
	7/23/2013	NS	NS	NS	NS	NS	NS	NS	NA	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
IW-5	3/19/2012	NA	NA	NA	NA	NA	NA	220,000	NA	NM	NM	NM	NA	NA	NA	NA	150,000	25,000	NA	270,000	NA	910 H
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.70	NM	NM	1,253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	920	36,000	NA	NM	NM	NM	NA	NA	6,200	<230 H	85,000	<1,000	2,300	4,900	NA	810 H
	2/26/2013	<0.50	<0.50	<0.50	<1.0	<0.50	***3,200***	***25,000***	NA	16.10	7.17	1,469	NA	NA	3,200	<230	45,000	1,200	<1,000	6,000	3.8	730
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	***3,500***	***35,000***	NA	26.06	6.75	1,316	<0.50	<0.50	13,000	<230	6,300	<1,000	5,800	7,400	5.0	830
	8/12/2013	NA	NA	NA	NA	NA	NA	***39,000***	NA	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IW-6	3/19/2012	NA	NA	NA	NA	NA	NA	6,100	NA	NM	NM	NM	NA	NA	NA	NA	270,000	48,000	NA	270,000	NA	6,200
	4/19/2012	NA	NA	NA	NA	NA	NA	NA	0.77	NM	NM	7,377	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/1/2012	<0.50	<0.50	<0.50	<1.0	<0.50	280	5,600	NA	NM	NM	NM	NA	NA	2,500	<230 H	300,000	2,100	10,000	43,000	NA	8,500
	2/26/2013	0.50	<0.50	<0.50	<1.0	<0.50	120	4,800	NA	16.10	6.56	9,861	NA	NA	3,300	<230	290,000	8,100	2,200	42,000	4.4	6,600
	7/23/2013	<0.50	<0.50	<0.50	<1.0	<0.50	**110**	***970***	NA	25.17	6.48	**14,451**	<0.50	<0.50	8,200	<230	410,000	<1,000	6,200	45,000	9.9	**10,000**

Notes:

1. µg/L = micrograms per liter
2. mg/L = milligrams per liter
3. NA = Not Analyzed; NS = Not Sampled; NM = Not Measured
4. TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.
5. Title 22 of the California Code of Regulations, California Maximum Contaminant Levels (MCLs) for drinking water.
6. -- = no data
7. MCL = maximum concentration level
8. µs = micro siemens
9. TDS = total dissolved solids
10. D.O. = Dissolved Oxygen
11. Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).
12. **Bold values indicate analytical detections above drinking water but below non-drinking water MCL.**
13. **Bold and *italicized* values indicate analytical detections above non-drinking water MCL.**
14. Shading = most recent groundwater monitoring data
15. The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C26.
16. H = Sample was prepped or analyzed beyond the specified holding time
17 J - Estimated value between Method Detection Limit and Practical Quantitation Limit.
18. ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.
19. Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.
20. Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
21. RWQCB ESLs = Regional Water Quality Control Board ESLs for Environmental Concerns at Sites with Contaminated Soil and Groundwater INTERIM FINAL - November 2007 (Revised May 2008) San Francisco Bay Region, CA

ARCADIS

Appendix A

UPS – Oakland Hub
Field Data Sheets

WELL GAUGING DATA

Project # 130220-PC1 Date 2-26-13 Client Arcadis

Site UPS Oakland - 8400 Pardee Dr, Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-2	0805	4		-		5*	4.73	14.34		
MW-3	0736	4		-			4.25	14.47		
MW-4	0740	2		-			4.09	15.88		
MW-8	0735	2					3.38	12.29		
MW-9	0746	2					5.91	13.30		
MW-10	0950	2					8.28	12.20		
MW-11	0755	2					5.96	12.49		
MW-12	0810	2	S/O	7.70	0.05	30	7.75	9.11		
MW-13	0814	2					3.40	9.05		
MW-14	0822	2					2.66	9.27		
OW-1	0746	6	S/O	7.69	0.03	15*	7.72	-		
IW-1	0817	2	S/O	7.81	0.91	550	8.72	9.16		
IW-2	0742	2					5.85	9.09		
IW-3	0738	2					4.42	9.90		
IW-4	0751	2		-			4.29	9.92		
IW-5	0804	2					4.58	9.52		
IW-6	0759	2					4.10	9.93		

* Volume removed from skimmer

WELLHEAD INSPECTION CHECKLIST

Date 2-20-13 Client Arcadis

Site Address UPS Oakland 8400 Pardee Dr. Oakland

Job Number 130220-PC1 Technician PC, BP

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-2	X							
MW-3	X							
MW-4	X							
MW-8	X							
MW-9	X							
MW-10	X							
MW-11	X							
MW-12	X							
MW-13	X							
MW-14	X							
OW-1	X							
IW-1	X							
IW-2	X							
IW-3	X							
IW-4							X	
IW-5	X						X	

NOTES: IW-5 2 1/2 tabs & bolts missing

WELLHEAD INSPECTION CHECKLIST

Date 2-26-13 Client Arcadis

Site Address UPS Oakland 8400 Pardee Dr.

Job Number 130226-PC1 Technician PC, BP

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
IW-6	X							

NOTES:

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **(PC), BP, BW**	Date: **2/26/2013**
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 14.34	Depth to Water (DTW): 4.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: [PVC] Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.65	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

6.2 (Gals.) X 3 = 18.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1102	17.1	7.90	3641	121	6.2	
1104	well dewatered					
1345	18.2	7.62	2847	141	—	

Did well dewater? (Yes) No Gallons actually evacuated: 8.5

Sampling Date: 2/26/13 Sampling Time: 1345 Depth to Water: 5.97

Sample I.D.: MW-2 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130227-Pwl	Client: Arcadis
Sampler: PW	Date: 2/27/13
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

____(Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	* ≈ 5ml of product removed from Skimmer					
	* ≈ 480 ml of water removed from Skimmer					
	* Replaced Skimmer as found					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: MW-3	Well Diameter: ~~2~~ 3 (4) 6 8 ____
Total Well Depth (TD): 14.47	Depth to Water (DTW): 4.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: [PVC] Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.29	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

6.6 (Gals.) X 3 = 19.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0940	16.9	7.04	1694	243	6.6	
0942	well dewatered					
1430	16.7	7.46	1407	62	-	

Did well dewater? (Yes) No Gallons actually evacuated: 7.5

Sampling Date: 2/26/13 Sampling Time: 1430 Depth to Water: 4.61

Sample I.D.: MW-3 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130227-DW4	Client: Arcadis
Sampler: DW	Date: 2/27/13
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other

____ (Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	* No product removed from skimmer					
	* ~ 580 ml of water removed from skimmer					
	* Replaced skimmer as found					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: (PC) **BP, BW**	Date: **2/26/2013**
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 15.88	Depth to Water (DTW): 4.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: [PVC] Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.45	

Purge Method: Bailer; [Disposable Bailer]; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

1.9 (Gals.) X	3 =	5.7 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0955	15.5	7.13	2059	>1000	1.9	
1000	16.8	7.05	2109	>1000	3.8	
1007	16.7	7.05	1995	>1000	5.7	

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Date: 2/26/13 Sampling Time: 1445 Depth to Water: 5.21

Sample I.D.: MW-4 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.29	Depth to Water (DTW): 3.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: [PVC] Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.16	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

1.4 (Gals.) X 3 = 4.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1020	17.4	6.96	59163	50	1.4	
1025	18.1	6.86	10.14 mS	70	2.8	
1030	18.1	6.94	10.57	876	4.2	

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 2/26/13 Sampling Time: 1515 Depth to Water: 7.70 (2hr)

Sample I.D.: MW-8 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: (PC) **BP, BW**	Date: **2/26/2013**
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 13.30	Depth to Water (DTW): 5.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: [PVC] Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.39	

Purge Method: Bailer / [Disposable Bailer] / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / [Disposable Bailer] / Extraction Port / Dedicated Tubing / Other: ____

1.2 (Gals.) X 3 = 3.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1048	18.3	7.18	8962	33	1.2	
1052	18.9	6.73	19.05 mS	50	2.4	
1058	19.3	6.75	22.83	230	3.6	

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Date: 2/26/13 Sampling Time: 1500 Depth to Water: 7.94

Sample I.D.: MW-9 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.20	Depth to Water (DTW): 8.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.06	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

0.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1010	17.5	7.40	9865	270	0.6	cloudy yellow
1013	18.0	7.39	9645	517	1.2	" "
1016	18.2	7.43	9646	581	1.8	" "
1330						

Did well dewater? Yes (No) Gallons actually evacuated: 1.8

Sampling Date: 2/26/13 Sampling Time: 1330 Depth to Water: 8.28

Sample I.D.: MW-10 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.49	Depth to Water (DTW): 5.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.26	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

1.0 (Gals.) X 3 = 3.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0945	17.4	7.26	8007	10.96	1.0	cloudy
0948	17.2	7.31	8331	>1000	2.0	black grey
0952	17.8	7.32	8979	>1000	3.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Date: 2/26/13 Sampling Time: 1345 Depth to Water: 10.08 (2hr)

Sample I.D.: MW-11 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: MW-12	Well Diameter: 2, 3, 4, 6, 8
Total Well Depth (TD): —	Depth to Water (DTW): 7.75
Depth to Free Product: 7.70	Thickness of Free Product (feet): 0.05
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other

Sampling Method: Bailer, ~~Disposable Bailer~~, BP, Extraction Port, Dedicated Tubing, Other:

— (Gals.) X —	= — Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
• Bailed appx 30 mL SPH & 2 gallons H_2O						

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2/26/13 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SH ET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: MW-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.11	Depth to Water (DTW): 7.75
Depth to Free Product: 7.70	Thickness of Free Product (feet): 0.05
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.02	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; (Peristaltic); Extraction Pump; Other ___

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other: New tubing

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1103	18.3	7.61	2560	>1000	0.2	black odor
1106	18.5	7.43	2394	>1000	0.4	↓
1109	18.5	7.37	2374	>1000	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 2/26/13 Sampling Time: 1420 Depth to Water: 7.82

Sample I.D.: MW-12 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 9.05	Depth to Water (DTW): 3.40
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.53	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other _____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
0.90 (Gals.) X	3 =	2.7 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0858	17.9	7.48	2070	>1000	0.9	black cloudy
0901	18.1	7.53	2096	>1000	1.8	" " "
0904	Well Dewatered @		2.0 Gallons			
1440	17.7	7.46	2052	>1000	—	

Did well dewater? (Yes) No Gallons actually evacuated: 2.0

Sampling Date: 2/26/13 Sampling Time: 1440 Depth to Water: 7.42 (2nd)

Sample I.D.: MW-13 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

* 1 amber collected, insufficient H2O

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: MW-14	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.27	Depth to Water (DTW): 2.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.98	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: ____

1.1 (Gals.) X 3 = 3.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0840	14.5	6.12	2447	545	1.1	
0843	15.6	6.24	5291	879	2.2	
0846	15.8	6.36	5600	>1000	3.3	

Did well dewater? Yes (No) Gallons actually evacuated: 3.3

Sampling Date: 2/26/13 Sampling Time: 1330 Depth to Water: 7.43

Sample I.D.: MW-14 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: OW-1	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 7.72
Depth to Free Product: 7.69	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / **Disposable Bailer** / Extraction Port / Dedicated Tubing / Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
			SpH in well - No Sample			

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2/26/13 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130227-Pw4	Client: Arcadis
Sampler: PW	Date: 2/27/13
Well I.D.: OW-1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____ (Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	*≈15ml of product removed from skimmer					
	*≈ 255 ml of water removed from skimmer					
	* Replaced skimmer as found					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: EW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.16	Depth to Water (DTW): 8.72
Depth to Free Product: 7.81	Thickness of Free Product (feet): 0.91
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: ~~Bailer~~; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
		Purged 550ml SPH + 1.5gal H_2O				

Did well dewater? Yes No — Gallons actually evacuated:

Sampling Date: 2/26/13 — Sampling Time: — Depth to Water:

Sample I.D.: — Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: IW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.16	Depth to Water (DTW): 8.72
Depth to Free Product: 7.81	Thickness of Free Product (feet): 0.91
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.81	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; (Peristaltic) Extraction Pump; Other____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: New Tubing

0.1 (Gals.) X	3	=	0.3	Gals.
1 Case Volume	Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1113	18.8	7.79	2481	>1000	0.1	sheen, odor, brown
1114	18.8	7.78	2477	>1000	0.2	↓ ↓ ↓
1116	18.8	7.78	2468	>1000	0.3	

Did well dewater? Yes (No) Gallons actually evacuated: 0.3

Sampling Date: 2/26/13 Sampling Time: 1350 Depth to Water: 8.90

Sample I.D.: IW-1 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

..ELL MONITORING DATA SH..ET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: IW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.09	Depth to Water (DTW): 5.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.49	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other ____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

0.5 (Gals.) X 3 = 1.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0915	17.7	7.56	4271	>1000	0.5	black cloudy
0918	17.9	7.38	4423	>1000	1.0	light sheen
0920	17.9	7.45	4494	>1000	1.5	↓
						almost dewatered

Did well dewater? Yes (No) Gallons actually evacuated: 1.5

Sampling Date: 2/26/13 Sampling Time: 1500 Depth to Water: 6.56 (2hr)

Sample I.D.: IW-2 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SH ET

Project #: 130226-PC1	Client: Arcadis @ UPS Oakland
Sampler: PC, BP, BW	Date: 2/26/2013
Well I.D.: IW-3	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 9.90	Depth to Water (DTW): 4.42
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.51	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

0.9 (Gals.) X 3 = 2.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0842	17.0	6.99	3602	831	0.9	black cloudy
1845	17.5	7.00	3781	>1000	1.8	↓
0848	17.7	7.02	3890	>1000	2.7	↓

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Date: 2/26/13 Sampling Time: 1405 Depth to Water: 5.31

Sample I.D.: IW-3 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: IW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.92	Depth to Water (DTW): 4.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.42	

Purge Method: Bailer ~~Disposable Bailer~~ Positive Air Displacement Electric Submersible | Waterra Peristaltic Extraction Pump | Other_____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing | Other:_____

0.9 (Gals.) X 3 = 2.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0920	16.6	7.00	2130	>1000	0.9	Sheen, odor
0924	16.8	7.01	2038	>1000	1.8	
0927	17.0	7.02	2058	>1000	2.7	

Did well dewater? Yes (No) Gallons actually evacuated: 2.7

Sampling Date: 2/26/13 Sampling Time: 1415 Depth to Water: 4.86

Sample I.D.: IW-4 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: IW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.52	Depth to Water (DTW): 4.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.57	

Purge Method: Bailer (Disposable Bailer) Positive Air Displacement Electric Submersible Waterra Peristaltic Extraction Pump Other_____

Sampling Method: Bailer (Disposable Bailer) Extraction Port Dedicated Tubing Other: _____

0.8 (Gals.) X 3 = 2.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0908	15.5	7.60	2149	>1000	0.8	sheen, odor
0912	16.2	7.27	1544	>1000	1.6	" "
0915	16.1	7.17	1469	>1000	2.4	" "

Did well dewater? Yes (No) Gallons actually evacuated: 2.4

Sampling Date: 2/26/13 Sampling Time: 1402 Depth to Water: 4.40

Sample I.D.: IW-5 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: **130226-PC1**	Client: **Arcadis @ UPS Oakland**
Sampler: **PC, BP, BW**	Date: **2/26/2013**
Well I.D.: IW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.33	Depth to Water (DTW): 4.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.15	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; [Disposable Bailer]; Extraction Port; Dedicated Tubing; Other: _____

0.8 (Gals.) X 3 = 2.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0855	14.4	6.89	6007	>1000	0.8	
0858	15.7	6.63	9087	>1000	1.6	
0902	16.1	6.56	9861	>1000	2.4	

Did well dewater? Yes (No) Gallons actually evacuated: 2.4

Sampling Date: 2/26/13 Sampling Time: 1345 Depth to Water: 5.02

Sample I.D.: IW-6 Laboratory: Test America / EMLab

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	HPC Short Hold	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
IW-1	2/26/13	1350	W	1	1x125ml Poly		X				
IW-2		1500	W	1			X				
IW-3		1405	W	1			X				
IW-4		1415	W	1			X				
IW-5		1400	W	1			X				
IW-6		1345	W	3			X				
				1			X				
				1			X				
				1			X				
				1			X				

SAMPLING COMPLETED DATE 2/26/13 TIME 1545

SAMPLING PERFORMED BY P. Lamish, B. Pandl, B. Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	2/26/13	1735	[signature]	2/26/13	17:35
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
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CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	250 mL	C = COMPOSITE ALL CONTAINERS	HPC Short Hold	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	2-26-13	1545	W	1			X				
MW-3		1430	W	1			X				
MW-4		1445	W	1			X				
MW-8		1515	W	1			X				
MW-9		1500	W	1	1500 (2)		X				
MW-10		1330	W	1			X				
MW-11		1345	W	1			X				
MW-12		1420	W	1			X				
MW-13		1440	W	1			X				
MW-14		1330	W	1			X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	2-13-26	1715	B.Parell P.Cornish B.Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	2/26/13	1735	Mudali Duty	2/26/13	17:35

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

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Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	Asst	C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE, Naphthalene (8260)	DRO	Methane	Nitrate as N & Sulfate	Sulfide	Total Diss. Iron (Field Filtered)	TDS	Magnesium	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	2-26-13	1500	W	4	13		X	X	X	X	X	X	X	X				
MW-3		1430	W	4	13		X	X	X	X	X	X	X	X				
MW-4		1445	W	4	13		X	X	X	X	X	X	X	X				
MW-8		1515	W	4	13		X	X	X	X	X	X	X	X				
MW-9		1500	W				X	X	X	X	X	X	X	X				
MW-10		1330	W	4	13		X	X	X	X	X	X	X	X				
MW-11		1345	W	4	13		X	X	X	X	X	X	X	X				
MW-12		1420	W	4	13		X	X	X	X	X	X	X	X				
MW-13		1440	W	3	12		X	X	X	X	X	X	X	X	* Filled Vz L AG B for DRO			
MW-14		1530	W	4	13		X	X	X	X	X	X	X	X				

SAMPLING COMPLETED: DATE | TIME

SAMPLING PERFORMED BY: P. Cornish, B. Weeks, B. Pavell

RESULTS NEEDED NO LATER THAN: Standard TAT

		DATE	TIME			DATE	TIME
RELEASED BY		2/26/13	1815	RECEIVED BY	(SC)	2/26/13	1815
RELEASED BY	Sample custody BTS	2/27/13	1050	RECEIVED BY	(TMSF)	02/27/13	1050
RELEASED BY		DATE	TIME	RECEIVED BY		DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY — BTS # 130276-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF — DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	Asst	C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE, Naphthalene (8260)	DRO	Methane	Nitrate as N & Sulfate	Sulfide	Total Diss. Iron (Field Filtered)	TDS	Magnesium	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
IW-1	2-26-13	1350	W	4+1 3			X	X	X	X	X	X	X	X				
IW-2		1500	W	4+1 3			X	X	X	X	X	X	X	X				
IW-3		1405	W	4+1 3			X	X	X	X	X	X	X	X				
IW-4		1415	W	4+1 3			X	X	X	X	X	X	X	X				
IW-5		1400	W	4+1 3			X	X	X	X	X	X	X	X				
IW-6		1345	W	4+1 3			X	X	X	X	X	X	X	X				

SAMPLING COMPLETED: DATE 2/26/13 TIME

SAMPLING PERFORMED BY: P. Cornish, B. Parnell, B. Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

		DATE	TIME		DATE	TIME
RELEASED BY		2/26/13	1815	RECEIVED BY		2/26/13 1815
RELEASED BY	Sample Custodian	2/27/13	1050	RECEIVED BY	(SC)	2/27/13 1050
RELEASED BY	BTS	DATE	TIME	RECEIVED BY	(TMF)	DATE TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	UPS Oakland	PROJECT NUMBER	130226-PC1

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. °C	INITIALS
Myron L Ultrameter	6207034	2/26/13 @0620	pH 7.00	7.01	Y	13.7	BP
			pH 10.00	10.02	Y	13.8	BP
			pH 4.00	3.99	Y	13.7	BP
			cond 3900	3905	Y	15.0	BP
Hach Turbidimeter	BTS002	2/26/13 @0625	0, 1, 20 100, 800 NTUs	0, 1, 21 104, 808 NTUs	Y	—	BP
Myron L	6210227	2/26/13 0600	4/7/10 pH 3100 µS	4.0/7.0/10.0 3899	Y Y	12.6 12.5	R

WELL GAUGING DATA

Project # 130723-Dw1 Date 7/23/13 Client Arcadis

Site 8400 Pardee Dr., Oakland CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-2	1040	4		5.15	0.06		5.21	—		
MW-3	1029	4					5.48	14.50		
MW-4	1054	2					5.10	16.55		
MW-8	0823	2					3.90	12.25		
MW-9	0819	2					6.13	13.25		
MW-10	1111	2					8.31	12.25		
MW-11	1059	2					6.05	12.60		
MW-12	1045	2		6.53	0.16	97	6.69	—		
MW-13	1047	2					5.58	9.00		
MW-14	1035	2					4.56	9.22		
OW-1	1025	2		7.74	0.10	5	7.84	—		
IW-1	1050	2		6.53	0.36	218	6.89	—		
IW-2	0833	2					5.60	9.00		
IW-3	0828	2					4.80	9.10		
IW-4	—	Trailer Parked On Well						—		
IW-5	0837	2					5.38	9.75		
IW-6	1032	2					5.09	9.15	↓	

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 7/22/13

Site Address 8400 Pardee Dr., Oakland CA

Job Number 130722-Mw1 Technician Daniel Allen

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-2	X							
MW-3	X							
MW-4	X							
MW-8	X							
MW-9	X							
MW-10	X							
MW-11	X							
MW-12	X							
MW-13	X							
MW-14	X							
OW-1	X							
IW-1	X							
IW-2	X							
IW-3	X							
IW-4	X							
IW-5	X							

NOTES:

WELL MONITORING DATA SHEET

Project #: 130722-Dw 1	Site: UPS Oakland
Sampler: Dw	Date: 7/23/13
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.50	Depth to Water (DTW): 5.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.28	

Purge Method:
(Disposable Bailer) Dw
Positive Air Displacement
(Electric Submersible)
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

5.8 (Gals.) X 3 = 17.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1049	78.9	7.04	1527	—	0.47	—	—	Pre-Purge
1056	77.1	7.26	1915	95	—	—	5.8	
1057	well	dewatered	@	7.0 gals				
1120	77.5	7.16	1696	66	0.35	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 7.0

Sampling Date: 7/23/13 Sampling Time: 1120 Depth to Water: 7.20

Sample I.D.: MW-3 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-PW1	Site: UPS Oakland
Sampler: PW	Date: 7/23/13
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.50	Depth to Water (DTW): 5.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

___ (Gals.) X	___	=	___ Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
	* Emptied Skimmer							
	* 0ml SPH removed							
	* 400ml water removed							
	* Replaced Skimmer as found							

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory:

Analyzed for: Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/22/13
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 16.55	Depth to Water (DTW): 5.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.39	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

1.8 (Gals.) X	3	= 5.4 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1328	76.2	7.30	1337	—	0.74	—	—	Pre-Purge
1332	74.4	7.22	2118	93	—	—	1.8	Sheen
1334	75.5	7.02	1710	129	—	—	3.6	"
1336	75.6	6.96	1741	320	—	—	5.4	"
1340	76.2	7.05	1789	—	0.44	—	—	Post-Purge

Did well dewater? Yes (No) Gallons actually evacuated: 5.4

Sampling Date: 7/22/13 Sampling Time: 1340 Depth to Water: 5.10

Sample I.D.: MW-4 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-Dw1	Site: UPS Oakland
Sampler: Dw	Date: 7/22/13
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.25	Depth to Water (DTW): 3.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.57	

Purge Method:

Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

1.3 (Gals.) X 3 = 4.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1218	78.0	6.71	3857	—	0.31	—	—	Pre-Purge
1223	74.4	6.80	4846	157	—	—	1.3	
1224	72.1	6.73	4979	173	—	—	2.6	
1225	well	Dewatered	@	3.0	gals			
1425	73.0	6.87	4217	—	0.50	—	—	Post-Purge
1425	72.6	6.81	4408	104	—	—	—	

Did well dewater? (Yes) No Gallons actually evacuated: 3.0

Sampling Date: 7/22/13 Sampling Time: 1425 Depth to Water: 9.23 (2hr)

Sample I.D.: MW-8 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/22/13
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 13.25	Depth to Water (DTW): 6.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.55	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

1.1 (Gals.) X	3	=	3.3 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1242	78.5	6.63	8692	—	0.28	—	—	Pre-purge
1245	76.7	6.58	9118	63	—	—	1.1	
1246	76.2	6.48	16.80ms	85	—	—	2.2	
1246	well	dewatered		@	2.5	5gals		DTW=12.96
1020	76.0	6.51	12700	75	0.43	—	—	Post-purge
~~1020~~								

Did well dewater? (Yes) No Gallons actually evacuated: 2.5

Sampling Date: 7/23/13 Sampling Time: 1020 Depth to Water: 9.60 (Next Day)

Sample I.D.: MW-9 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-Dw1	Site: UPS Oakland
Sampler: DW	Date: 7/22/13
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.25	Depth to Water (DTW): 8.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.16	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

0.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1120	72.1	6.77	11667	—	1.44	—	—	Pre-Purge
1127	72.9	6.82	10.10ms	109	—	—	0.6	
1128	72.8	6.76	9849µ	161	—	—	1.2	
1129	72.7	6.74	9815	204	—	—	1.8	
1135	73.1	6.84	9721	—	0.84	—	—	Post-Purge

Did well dewater? Yes (No) Gallons actually evacuated: 1.8

Sampling Date: 7/22/13 Sampling Time: 1135 Depth to Water: 9.05

Sample I.D.: MW-10 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/22/13
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.60	Depth to Water (DTW): 6.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.36	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

1.0 (Gals.) X 3 = 3.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1305	74.0	6.92	8450	—	0.59	—	—	Pre-Purge
1308	74.1	6.89	8161	105	—	—	1.0	
1309	72.8	6.78	9124	130	—	—	2.0	
1310	well	dewatered			@ 2.5 Gals			DTW=12.27
0940	71.3	6.76	9905	897	0.26	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 2.5

Sampling Date: 7/23/13 Sampling Time: 0940 Depth to Water: 9.21 (Next Day)

Sample I.D.: MW-11 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130723-Dw1	Site: UPS Oakland
Sampler: Dw	Date: 7/23/13
Well I.D.: MW-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): ___	Depth to Water (DTW): 6.69
Depth to Free Product: 6.53	Thickness of Free Product (feet): 0.16
Referenced to: PVC Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other ___

Sampling Method:
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ___

Flow Rate= ___

___ (Gals.) X ___ = ___ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
*	Purged 97 ml of SPH + 0.5 gals water							
*	Slowly lowered tubing until thick black							
	SPH Observed, Continued purging until water							
	was only coming out.							

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory:

Analyzed for: Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-Dw1	Site: UPS Oakland
Sampler: Dw	Date: 7/22/13
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.00	Depth to Water (DTW): 5.58
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.26	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

0.5 (Gals.) X 3 = 1.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1457	78.4	7.04	2141	—	0.21	—	—	Pre-Purge
1459	78.5	7.23	2037	397	—	—	0.5	
1501	78.0	6.98	2178	>1000	—	—	1.0	DTW=8.70
1501	well	dewatered	@	1.2	gals			
0915	78.4	6.90	2022	>50	0.36	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 1.2

Sampling Date: 7/23/13 Sampling Time: 0915 Depth to Water: 6.20

Sample I.D.: MW-13 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-Dw1	Site: UPS Oakland
Sampler: Dw	Date: 7/23/13
Well I.D.: MW-14	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.22	Depth to Water (DTW): 4.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.49	

Purge Method: (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; 2" Rediflo pump; Extraction Pump; Other_____

Sampling Method: (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:_____

Flow Rate=_____

0.7 (Gals.) X 3 = 2.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0816	79.7	6.40	6424	—	0.35	—	—	Pre-Purge
0819	78.3	6.61	5317	85	—	—	0.7	
0820	78.6	6.34	12.64ms	152	—	—	1.4	
0820	well dewatered @					1.5	gals	
1430	78.8	6.53	5497	98	0.49	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 1.5

Sampling Date: 7/23/13 Sampling Time: 1430 Depth to Water: 7.08 (2hr)

Sample I.D.: MW-14 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: OW-1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.84
Depth to Free Product: 7.74	Thickness of Free Product (feet): 0.10
Referenced to: PVC Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, 2" Rediflo pump, Extraction Pump, Other______

Sampling Method: Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ______

Flow Rate=______

—(Gals.) X — = — Gals.
1 Case Volume   Specified Volumes   Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	$radius^2$ * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
	*	Emptied	Skimmer					
	*	5ml of SPH removed						
	*	550 ml of water removed						
	*	Replaced skimmer as found						
	*	No Sample Taken						

Did well dewater? Yes No	Gallons actually evacuated:	
Sampling Date:	Sampling Time:	Depth to Water:
Sample I.D.:	Laboratory:	
Analyzed for:		Other:
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):	
FB I.D. (if applicable): @ Time	Analyzed for:	
D.O. (if req'd): Pre-purge: mg/L	Post-purge: mg/L	
O.R.P. (if req'd): Pre-purge: mV	Post-purge: mV	

WELL MONITORING DATA SHEET

Project #: 130723-Pw 1	Site: UPS Oakland
Sampler: PW	Date: 7/23/13
Well I.D.: IW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): ———	Depth to Water (DTW): 6.89
Depth to Free Product: 6.53	Thickness of Free Product (feet): 0.36
Referenced to: PVC Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
2" Redi flo pump
Extraction Pump
Other ___

Sampling Method:
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ___

Flow Rate= ___

___ (Gals.) X ___ = ___ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
*	Purged 218 ml of SPH + 1.0 gals water							
*	Slowly lowered tubing until thick black SPH observed, Continued pursing until only water was coming out.							

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory:

Analyzed for: Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-pw1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: IW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.00	Depth to Water (DTW): 5.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.28	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other:_____

Flow Rate=_____

0.5 (Gals.) X 3 = 1.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0845	~~78.0~~	6.32	5968	—	0.68	—	—	Pre-Purge
0848	77.9	6.82	5259	>1000	—	—	0.5	
0849	77.7	6.76	5455	>1000	—	—	1.0	
0849	well	dewatered	@	1.2	gals			
1320	77.5	6.46	5531	71000	0.48	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 1.2

Sampling Date: 7/23/13 Sampling Time: 1320 Depth to Water: 6.25

Sample I.D.: IW-2 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: IW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.10	Depth to Water (DTW): 4.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.66	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

0.7 (Gals.) X 3 = 2.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0830	79.7	6.72	3336	—	0.30	—	—	Pre-Purge
0833	77.8	6.84	3400	71000	—	—	0.7	
0834	78.4	6.76	3545	7100	—	—	1.4	
0835	well dewatered @ 1.8 gals							
1300	78.0	6.79	3475	751	0.52	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 1.8

Sampling Date: 7/23/13 Sampling Time: 1300 Depth to Water: 5.51

Sample I.D.: IW-3 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: TW-4	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
Disposable Bailer
Extraction Port
Dedicated Tubing
Other:_____

Flow Rate=_____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
		* Large Trailer Parked over well. Was Not able to set trailer moved						
		* No Sample Taken						

Did well dewater? Yes No		Gallons actually evacuated:	
Sampling Date:	Sampling Time:	Depth to Water:	
Sample I.D.:	Laboratory:		
Analyzed for:		Other:	
EB I.D. (if applicable): @ Time		Duplicate I.D. (if applicable):	
FB I.D. (if applicable): @ Time		Analyzed for:	
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: TW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.75	Depth to Water (DTW): 5.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.25	

Purge Method:
(Disposable Bailer)
Positive Air Displacement
Electric Submersible
Waterra
2" Rediflo pump
Extraction Pump
Other_____

Sampling Method:
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

Flow Rate=_____

0.7 (Gals.) X 3 = 2.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0739	79.1	6.61	1145	—	0.72	—	—	Pre-Purge
0742	78.5	6.91	1138	>1000	—	—	0.7	
0743	78.2	6.65	1381	>1000	—	—	1.4	
0744	78.4	6.61	1377	>1000	—	—	2.1	
0750	78.9	6.75	1316	—	0.49	—	—	Post-Purge

Did well dewater? Yes (No) Gallons actually evacuated: 2.1

Sampling Date: 7/23/13 Sampling Time: 0750 Depth to Water: 5.39

Sample I.D.: TW-5 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

I.D. (if applicable): @ Time Analyzed for:

(if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
(if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130722-DW1	Site: UPS Oakland
Sampler: DW	Date: 7/23/13
Well I.D.: IW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.15	Depth to Water (DTW): 5.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.90	

Purge Method: (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / 2" Rediflo pump / Extraction Pump / Other_____

Sampling Method: (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: _____

Flow Rate=_____

0.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0859	80.4	6.44	14375	—	0.61	—	—	Pre-Purge
0902	77.8	6.43	14.18ms	>1000	—	—	0.6	
0903	78.1	6.38	14.98ms	>1000	—	—	1.2	
0903		well dewatered @ 1.5 gals						
1400	77.3	6.48	14451	>1000	0.53	—	—	Post-Purge

Did well dewater? (Yes) No Gallons actually evacuated: 1.5

Sampling Date: 7/23/13 Sampling Time: 1400 Depth to Water: 5.40

Sample I.D.: IW-6 Laboratory: TA-SF

Analyzed for: SEE COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130722-DW1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE, Naphthalene, 1,2-DCS, EDB (8260)	DRO w/ SGC	Methane	Nitrate, Sulfate, TDS (Short holds)	Sulfide	Total Diss. Iron, Manganese (Field Filtered)	Magnesium	PAH's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-14	7/23/13	1430	W	9	mix		X	X	X					X				
IW-6		1400		13			X	X	X	X	X	X	X	X				
IW-3		1300					X	X	X	X	X	X	X	X				
IW-2		1320					X	X	X	X	X	X	X	X				
MW-3		1120					X	X	X	X	X	X	X	X				
MW-9		1020					X	X	X	X	X	X	X	X				
MW-11		0940					X	X	X	X	X	X	X	X				
MW-13		0915					X	X	X	X	X	X	X	X				
IW-5		0750					X	X	X	X	X	X	X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	7/23/13	1430	Daniel Allen

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	7/23/13	1705		7/23/13	1705
	7/23/13	1705	JAD	07/23/13	1705

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130722-DW1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE, Naphthalene, 1,2-DCS, EDB (8260)	DRO w/ SGC	Methane	Nitrate, Sulfate, TDS (Short holds)	Sulfide	Total Diss. Iron, Manganese (Field Filtered)	Magnesium	PAH's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-4	7/22/13	1340	W	13	mix		X	X	X	X	X	X	X	X				
MW-8		1425					X	X	X	X	X	X	X	X				
MW-10		1135					X	X	X	X	X	X	X	X				

SAMPLING COMPLETED: DATE 7/22/13 TIME 1425
SAMPLING PERFORMED BY: Daniel Allen

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	7/22/13	1630	[signature]	7/22/13	1630
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	UPS Oakland			PROJECT NUMBER	130722-Dw1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. F°	INITIALS
YSI 556	08H00352	7/22/13 @0615	DO 100%	102.6	Yes	68	DW
			ph 7,10,4	7.00 10.03 4.01	Yes	66	DW
			3900us/cm	3905	Yes	66	DW
ultrameter II	06212898		ph 7,10,4	7,10,4	Yes	66	DW
			3900 us/cm	3900	Yes	66	DW
		7/23/13 @0610	DO 100%	100.2	Yes	69	DW
			ph 7,10,4	7.02 10.00 4.05	Yes	66	DW
			3900us/cm	3900	Yes	66	DW
ultrameter II			ph 7,10,4	7,10,4	Yes	66	DW
			3900 us/cm	3900	Yes	66	DW

ARCADIS

Appendix B

UPS – Oakland Hub
SOS® Passive Skimmers Specifications

SOS® Passive Skimmers

For Low Recovery Wells

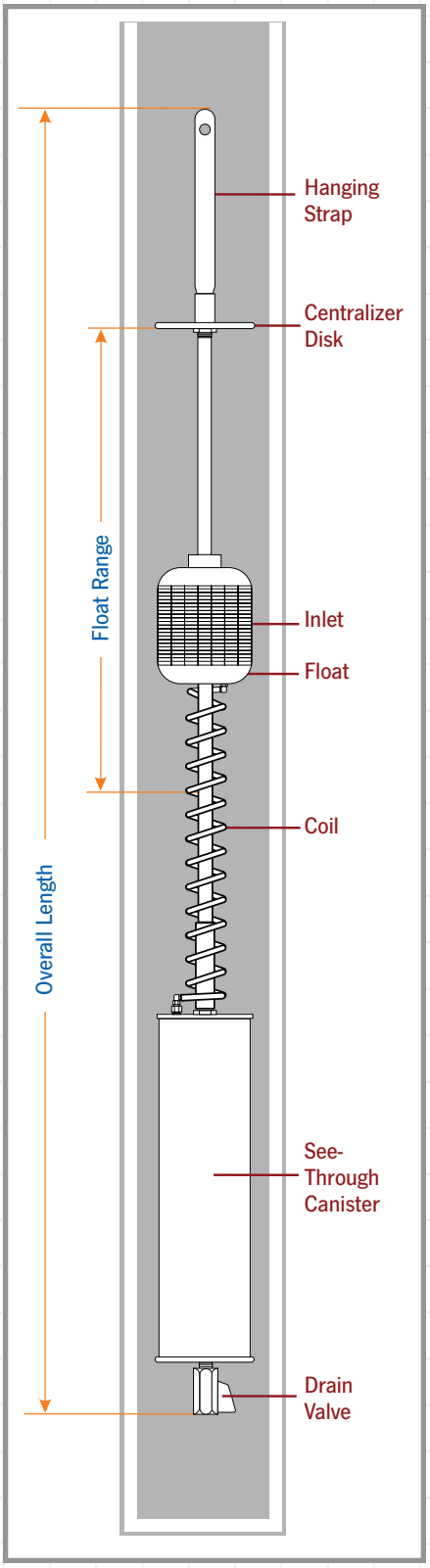
The QED family of Passive Skimmers has been designed for free product recovery applications in sites where active pumping systems are not applicable due to existing conditions or extreme low permeability formations. The floating intake head follows the groundwater fluctuations in the recovery well, allowing only the free-floating phase (LNAPL) to be captured, without taking water, and stored in the built-in reservoir for further manual transfer to a tank.

Passive Skimmers are available for 2" (50 mm) and 4" (100 mm) extraction wells, with different reservoir capacities.

Advantages

1. **Simple systems for extreme low recovery applications.**
2. **Inexpensive option if active system is not practical.**

SOS® Passive Skimmers



Specifications

Model No.	2 in. SOS 301079	2 in. SOS 301080	4 in. SOS 301032	4 in. SOS 301033
Canister Volume	20 oz. (600 cc)	30 oz. (900 cc)	101 oz. (3,000 cc)	203 oz. (6,000 cc)
Well Diameter	2 in. (5 cm)	2 in. (5 cm)	4 in. (10 cm)	4 in. (10 cm))
Float Travel Range	12 in. (30 cm)	12 in. (30 cm)	18 in. (46 cm)	18 in. (46 cm)
Overall Length	65 in. (165 cm)	48 in. (122 cm)	119 in. (302 cm)	11 in. (28 cm)

LNAPL Fluid Density	< 1.0 SG
Kinematic Viscosity @ 50 ˚F (10 ˚C)	200 centistokes
Recommended Initial LNAPL Layer	> .25 in. (> .64 cm)
Residual LNAPL Layer	0.25 in. (.64 cm)
Suitable Types of LNAPL	Gasoline, jet fuel
Materials	Stainless steel, Viton®, PVC, brass, closed cell foam.

Viton is registered trademark of DuPont Dow Elastomers.

Characterize Your Specific Site

The QED Test Kit enables you to measure the density and viscosity of your actual floating hydrocarbon layer. This FREE, do-it-yourself kit comes complete with simple, illustrated instructions. Once you have recorded the results of your hydrocarbon test, QED application specialists will be able to provide expert technical assistance in system design and specification.

P.O. Box 3726 Ann Arbor, MI 48106 USA **800-624-2026** **F 734-995-1170** info@qedenv.com www.qedenv.com

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Appendix C

UPS – Oakland Hub
Laboratory Analytical Results and Chain-of-Custody Documentation

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: 720-48033-1
Client Project/Site: UPS-Oakland

For:
ARCADIS U.S. Inc
1000 Cobb Place Blvd NW
Suite 500-A
Kennesaw, Georgia 30144

Attn: Ms. Jennifer LeBeau

Onieka Howard

Authorized for release by:
3/13/2013 6:49:57 PM
Onieka Howard
Project Manager I
onieka.howard@testamericainc.com

Designee for

Dimple Sharma
Project Manager I
dimple.sharma@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.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Job ID: 720-48033-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-48033-1

Comments
No additional comments.

Receipt
The samples were received on 2/27/2013 12:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.4º C, 2.6º C, 2.9º C, 3.3º C and 4.2º C.

Except:

The Chain-of-Custody (COC) was not properly filled out. (#5) MW-9 received only 1-amber 1L 1/2 full for DRO (Note: There is a green check mark on the COC for this sample), COC lists (#9) MW-13 as only 1/2 full for DRO, MW-13 was received full.
Sample MW-9 and MW-13 no duplicate amber 1L's were received.

MW-2 sample time does not match COC sample time: label lists 15:45, COC lists 15:00.

GC/MS VOA
Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 131679 exceeded control limits for the following analyte: MTBE.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: MW-2 (720-48033-1), IW-1 (720-48033-11), MW-12 (720-48033-8), IW-4 (720-48033-14), and IW-5 (720-48033-15).

No other analytical or quality issues were noted.

Air - GC VOA
No analytical or quality issues were noted.

Metals
No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-2 — Lab Sample ID: 720-48033-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	3.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	910		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	1.4		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	38000		990		ug/L	20		8015B	Total/NA
Magnesium	140		0.20		mg/L	1		6010B	Total/NA
Iron	4.1		0.20		mg/L	1		6010B	Dissolved
Total Dissolved Solids	2900		17		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-48033-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	4.1		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	12000		100		ug/L	2		8015B	Total/NA
Magnesium	43		0.20		mg/L	1		6010B	Total/NA
Iron	3.8		0.20		mg/L	1		6010B	Dissolved
Total Dissolved Solids	630		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 720-48033-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.7		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	9900		100		ug/L	2		8015B	Total/NA
Magnesium	41		0.20		mg/L	1		6010B	Total/NA
Iron	3.4		0.20		mg/L	1		6010B	Dissolved
Sulfate	1.6		1.0		mg/L	1		300.0	Total/NA
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 720-48033-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	12		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	2.0		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	280		51		ug/L	1		8015B	Total/NA
Magnesium	170		0.20		mg/L	1		6010B	Total/NA
Iron	0.81		0.20		mg/L	1		6010B	Dissolved
Sulfide	1.5		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	2900		17		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-48033-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	2.6		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	320		93		ug/L	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 720-48033-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	260		0.20		mg/L	1		6010B	Total/NA
Iron	4.0		0.20		mg/L	1		6010B	Dissolved
Sulfate	1.4		1.0		mg/L	1		300.0	Total/NA
Total Dissolved Solids	8900		100		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 720-48033-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	2.0		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	440		51		ug/L	1		8015B	Total/NA
Magnesium	110		0.20		mg/L	1		6010B	Total/NA
Iron	2.3		0.20		mg/L	1		6010B	Dissolved
Sulfate	21		10		mg/L	10		300.0	Total/NA
Total Dissolved Solids	3000		25		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 720-48033-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	2.1		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	1200		50		ug/L	1		8015B	Total/NA
Magnesium	120		0.20		mg/L	1		6010B	Total/NA
Iron	0.63		0.20		mg/L	1		6010B	Dissolved
Sulfide	3.1		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	4700		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 720-48033-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	3.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2500		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	1.6		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	24000		1000		ug/L	20		8015B	Total/NA
Magnesium	75		0.20		mg/L	1		6010B	Total/NA
Iron	9.2		0.20		mg/L	1		6010B	Dissolved
Sulfate	1.3		1.0		mg/L	1		300.0	Total/NA
Total Dissolved Solids	1500		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 720-48033-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.6		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	880		100		ug/L	2		8015B	Total/NA
Magnesium	93		0.20		mg/L	1		6010B	Total/NA
Iron	0.56		0.20		mg/L	1		6010B	Dissolved
Sulfate	1.3		1.0		mg/L	1		300.0	Total/NA
Sulfide	3.8		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-14 — Lab Sample ID: 720-48033-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.7		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	230		54		ug/L	1		8015B	Total/NA
Magnesium	100		0.20		mg/L	1		6010B	Total/NA
Iron	0.99		0.20		mg/L	1		6010B	Dissolved
Sulfate	66		10		mg/L	10		300.0	Total/NA
Total Dissolved Solids	3700		25		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-1 — Lab Sample ID: 720-48033-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	42		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	32000		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	2.5		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	59000		990		ug/L	20		8015B	Total/NA
Magnesium	71		0.20		mg/L	1		6010B	Total/NA
Iron	15		0.20		mg/L	1		6010B	Dissolved
Total Dissolved Solids	1500		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-2 — Lab Sample ID: 720-48033-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	480		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	1.5		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	6200		100		ug/L	2		8015B	Total/NA
Magnesium	150		0.20		mg/L	1		6010B	Total/NA
Iron	6.4		0.20		mg/L	1		6010B	Dissolved
Sulfide	5.4		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	3500		25		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-3 — Lab Sample ID: 720-48033-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.58		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	430		20		ug/L	20		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	2.8		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	1100		50		ug/L	1		8015B	Total/NA
Magnesium	140		0.20		mg/L	1		6010B	Total/NA
Iron	20		0.20		mg/L	1		6010B	Dissolved
Sulfide	8.2		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	2800		17		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-4 — Lab Sample ID: 720-48033-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	24		10		ug/L	10		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IW-4 (Continued) — Lab Sample ID: 720-48033-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	5600		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	3.9		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	34000		500		ug/L	10		8015B	Total/NA
Magnesium	53		0.20		mg/L	1		6010B	Total/NA
Iron	3.5		0.20		mg/L	1		6010B	Dissolved
Sulfate	5.1		1.0		mg/L	1		300.0	Total/NA
Sulfide	1.0		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-5 — Lab Sample ID: 720-48033-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	3.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	3200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	3.2		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	25000		500		ug/L	10		8015B	Total/NA
Magnesium	45		0.20		mg/L	1		6010B	Total/NA
Iron	6.0		0.20		mg/L	1		6010B	Dissolved
Sulfate	1.2		1.0		mg/L	1		300.0	Total/NA
Total Dissolved Solids	730		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-6 — Lab Sample ID: 720-48033-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.50		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	4.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	120		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	3.3		0.00099		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	4800		100		ug/L	2		8015B	Total/NA
Magnesium	290		0.20		mg/L	1		6010B	Total/NA
Iron	42		0.20		mg/L	1		6010B	Dissolved
Sulfate	8.1		1.0		mg/L	1		300.0	Total/NA
Sulfide	2.2		1.0		mg/L	1		376.1	Total/NA
Total Dissolved Solids	6600		50		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-2
Date Collected: 02/26/13 15:00
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-1
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			03/05/13 14:41	1
Benzene	ND		0.50		ug/L			03/05/13 14:41	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 14:41	1
Naphthalene	**3.3**		1.0		ug/L			03/05/13 14:41	1
Toluene	ND		0.50		ug/L			03/05/13 14:41	1
Xylenes, Total	**1.1**		1.0		ug/L			03/05/13 14:41	1
Gasoline Range Organics (GRO) -C5-C12	**910**		50		ug/L			03/05/13 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*03/05/13 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 138*		*03/05/13 14:41*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*03/05/13 14:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**1.4**		0.00099		mg/L			02/28/13 18:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**38000**		990		ug/L		03/04/13 09:10	03/05/13 12:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*03/04/13 09:10*	*03/05/13 12:29*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**140**		0.20		mg/L		02/28/13 21:03	03/02/13 00:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.1**		0.20		mg/L		02/28/13 21:55	03/01/13 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 17:57	1
Sulfate	ND		1.0		mg/L			02/27/13 17:57	1
Sulfide	ND		1.0		mg/L			03/04/13 21:20	1
Total Dissolved Solids	**2900**		17		mg/L			03/02/13 16:44	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-3
Date Collected: 02/26/13 14:30
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-2
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			03/05/13 15:08	1
Benzene	ND		0.50		ug/L			03/05/13 15:08	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 15:08	1
Naphthalene	**1.4**		1.0		ug/L			03/05/13 15:08	1
Toluene	ND		0.50		ug/L			03/05/13 15:08	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 15:08	1
Gasoline Range Organics (GRO) -C5-C12	**200**		50		ug/L			03/05/13 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/05/13 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*03/05/13 15:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/05/13 15:08*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**4.1**		0.00099		mg/L			02/28/13 18:23	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12000**		100		ug/L		03/04/13 09:10	03/05/13 12:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*38*		*23 - 156*	*03/04/13 09:10*	*03/05/13 12:58*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**43**		0.20		mg/L		02/28/13 21:03	03/02/13 00:45	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.8**		0.20		mg/L		02/28/13 21:55	03/01/13 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 18:31	1
Sulfate	ND		1.0		mg/L			02/27/13 18:31	1
Sulfide	ND		1.0		mg/L			03/04/13 21:27	1
Total Dissolved Solids	**630**		10		mg/L			03/02/13 16:47	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-4
Date Collected: 02/26/13 14:45
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-3
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			03/05/13 14:15	1
Benzene	ND		0.50		ug/L			03/05/13 14:15	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 14:15	1
Naphthalene	ND		1.0		ug/L			03/05/13 14:15	1
Toluene	ND		0.50		ug/L			03/05/13 14:15	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 14:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*03/05/13 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 138*		*03/05/13 14:15*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/05/13 14:15*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.7**		0.00099		mg/L			02/28/13 18:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9900**		100		ug/L		03/04/13 09:10	03/05/13 13:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*41*		*23 - 156*	*03/04/13 09:10*	*03/05/13 13:31*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**41**		0.20		mg/L		02/28/13 21:03	03/02/13 00:50	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.4**		0.20		mg/L		02/28/13 21:55	03/01/13 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 19:40	1
Sulfate	**1.6**		1.0		mg/L			02/27/13 19:40	1
Sulfide	ND		1.0		mg/L			03/04/13 21:30	1
Total Dissolved Solids	**1400**		10		mg/L			03/02/13 16:49	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-8
Date Collected: 02/26/13 15:15
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-4
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	*	0.50		ug/L			03/05/13 15:34	1
Benzene	ND		0.50		ug/L			03/05/13 15:34	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 15:34	1
Naphthalene	**12**		1.0		ug/L			03/05/13 15:34	1
Toluene	ND		0.50		ug/L			03/05/13 15:34	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 15:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*03/05/13 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 138*		*03/05/13 15:34*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/05/13 15:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.0**		0.00099		mg/L			02/28/13 18:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**		51		ug/L		03/04/13 09:10	03/05/13 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*23 - 156*	*03/04/13 09:10*	*03/05/13 13:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**170**		0.20		mg/L		02/28/13 21:03	03/02/13 00:55	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.81**		0.20		mg/L		02/28/13 21:55	03/01/13 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 20:49	1
Sulfate	ND		1.0		mg/L			02/27/13 20:49	1
Sulfide	**1.5**		1.0		mg/L			03/04/13 21:32	1
Total Dissolved Solids	**2900**		17		mg/L			03/02/13 16:52	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-9
Date Collected: 02/26/13 15:00
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-5
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	*	0.50		ug/L			03/05/13 15:59	1
Benzene	ND		0.50		ug/L			03/05/13 15:59	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 15:59	1
Naphthalene	ND		1.0		ug/L			03/05/13 15:59	1
Toluene	ND		0.50		ug/L			03/05/13 15:59	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 15:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/05/13 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 138*		*03/05/13 15:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/05/13 15:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.6**		0.00099		mg/L			02/28/13 19:03	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**320**		93		ug/L		03/04/13 09:10	03/05/13 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*03/04/13 09:10*	*03/05/13 14:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**260**		0.20		mg/L		02/28/13 21:03	03/02/13 01:00	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.0**		0.20		mg/L		02/28/13 21:55	03/01/13 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 21:23	1
Sulfate	**1.4**		1.0		mg/L			02/27/13 21:23	1
Sulfide	ND		1.0		mg/L			03/04/13 21:35	1
Total Dissolved Solids	**8900**		100		mg/L			03/02/13 16:54	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-10
Date Collected: 02/26/13 13:30
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-6
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			03/05/13 16:25	1
Benzene	ND		0.50		ug/L			03/05/13 16:25	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 16:25	1
Naphthalene	ND		1.0		ug/L			03/05/13 16:25	1
Toluene	ND		0.50		ug/L			03/05/13 16:25	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 16:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/05/13 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*03/05/13 16:25*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/05/13 16:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.0**		0.00099		mg/L			02/28/13 19:16	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**440**		51		ug/L		03/04/13 09:10	03/05/13 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*80*		*23 - 156*	*03/04/13 09:10*	*03/05/13 14:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**110**		0.20		mg/L		02/28/13 21:03	03/02/13 01:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.3**		0.20		mg/L		02/28/13 21:55	03/01/13 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 21:57	1
Sulfate	**21**		10		mg/L			02/27/13 22:15	10
Sulfide	ND		1.0		mg/L			03/04/13 21:37	1
Total Dissolved Solids	**3000**		25		mg/L			03/02/13 16:57	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-11
Date Collected: 02/26/13 13:45
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-7
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			03/05/13 16:51	1
Benzene	ND		0.50		ug/L			03/05/13 16:51	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 16:51	1
Naphthalene	ND		1.0		ug/L			03/05/13 16:51	1
Toluene	ND		0.50		ug/L			03/05/13 16:51	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 16:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*03/05/13 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 138*		*03/05/13 16:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/05/13 16:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.1**		0.00099		mg/L			02/28/13 19:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		50		ug/L		03/04/13 09:10	03/05/13 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*62*		*23 - 156*	*03/04/13 09:10*	*03/05/13 14:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**120**		0.20		mg/L		02/28/13 21:03	03/02/13 01:09	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.63**		0.20		mg/L		02/28/13 21:55	03/01/13 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 22:32	1
Sulfate	ND		1.0		mg/L			02/27/13 22:32	1
Sulfide	**3.1**		1.0		mg/L			03/04/13 21:40	1
Total Dissolved Solids	**4700**		33		mg/L			03/02/13 17:00	1

Client Sample ID: MW-12

Date Collected: 02/26/13 14:20
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-8

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			03/05/13 17:18	1
Benzene	ND		0.50		ug/L			03/05/13 17:18	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 17:18	1
Naphthalene	**3.9**		1.0		ug/L			03/05/13 17:18	1
Toluene	ND		0.50		ug/L			03/05/13 17:18	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 17:18	1
Gasoline Range Organics (GRO) -C5-C12	**2500**		500		ug/L			03/07/13 13:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*0*	*X*	*67 - 130*		*03/05/13 17:18*	*1*
4-Bromofluorobenzene	*99*		*67 - 130*		*03/07/13 13:16*	*10*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*03/05/13 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*03/07/13 13:16*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/05/13 17:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/07/13 13:16*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**1.6**		0.00099		mg/L			02/28/13 20:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24000**		1000		ug/L		03/04/13 09:10	03/05/13 16:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*03/04/13 09:10*	*03/05/13 16:19*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**75**		0.20		mg/L		02/28/13 21:03	03/02/13 01:14	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**9.2**		0.20		mg/L		02/28/13 21:55	03/01/13 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 23:08	1
Sulfate	**1.3**		1.0		mg/L			02/27/13 23:08	1
Sulfide	ND		1.0		mg/L			03/04/13 21:42	1
Total Dissolved Solids	**1500**		10		mg/L			03/02/13 17:02	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-13
Date Collected: 02/26/13 14:40
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-9
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			03/06/13 04:16	1
Benzene	ND		0.50		ug/L			03/06/13 04:16	1
Ethylbenzene	ND		0.50		ug/L			03/06/13 04:16	1
Naphthalene	ND		1.0		ug/L			03/06/13 04:16	1
Toluene	ND		0.50		ug/L			03/06/13 04:16	1
Xylenes, Total	ND		1.0		ug/L			03/06/13 04:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/06/13 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*03/06/13 04:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 138*		*03/06/13 04:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/06/13 04:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.6**		0.00099		mg/L			02/28/13 21:11	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**880**		100		ug/L		03/04/13 09:10	03/05/13 16:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*03/04/13 09:10*	*03/05/13 16:48*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**93**		0.20		mg/L		02/28/13 21:03	03/02/13 01:19	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.56**		0.20		mg/L		02/28/13 21:55	03/01/13 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 00:16	1
Sulfate	**1.3**		1.0		mg/L			02/28/13 00:16	1
Sulfide	**3.8**		1.0		mg/L			03/04/13 21:45	1
Total Dissolved Solids	**1300**		10		mg/L			03/02/13 17:05	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: MW-14
Date Collected: 02/26/13 13:30
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-10
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			03/06/13 04:44	1
Benzene	ND		0.50		ug/L			03/06/13 04:44	1
Ethylbenzene	ND		0.50		ug/L			03/06/13 04:44	1
Naphthalene	ND		1.0		ug/L			03/06/13 04:44	1
Toluene	ND		0.50		ug/L			03/06/13 04:44	1
Xylenes, Total	ND		1.0		ug/L			03/06/13 04:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/06/13 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*03/06/13 04:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 138*		*03/06/13 04:44*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/06/13 04:44*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.7**		0.00099		mg/L			02/28/13 21:24	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**		54		ug/L		03/04/13 09:10	03/06/13 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*112*		*23 - 156*	*03/04/13 09:10*	*03/06/13 11:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**100**		0.20		mg/L		02/28/13 21:03	03/02/13 01:32	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.99**		0.20		mg/L		02/28/13 21:55	03/01/13 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 00:51	1
Sulfate	**66**		10		mg/L			02/28/13 01:08	10
Sulfide	ND		1.0		mg/L			03/04/13 21:47	1
Total Dissolved Solids	**3700**		25		mg/L			03/03/13 23:22	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: IW-1

Date Collected: 02/26/13 13:50
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-11

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			03/08/13 18:44	10
Benzene	ND		5.0		ug/L			03/08/13 18:44	10
Ethylbenzene	ND		5.0		ug/L			03/08/13 18:44	10
Naphthalene	**42**		10		ug/L			03/08/13 18:44	10
Toluene	ND		5.0		ug/L			03/08/13 18:44	10
Xylenes, Total	ND		10		ug/L			03/08/13 18:44	10
Gasoline Range Organics (GRO) -C5-C12	**32000**		500		ug/L			03/08/13 18:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*		*03/08/13 18:44*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*		*03/08/13 18:44*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/08/13 18:44*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.5**		0.00099		mg/L			02/28/13 21:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59000**		990		ug/L		03/04/13 09:10	03/05/13 17:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*03/04/13 09:10*	*03/05/13 17:46*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**71**		0.20		mg/L		02/28/13 21:03	03/02/13 01:37	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**15**		0.20		mg/L		02/28/13 21:55	03/01/13 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 01:25	1
Sulfate	ND		1.0		mg/L			02/28/13 01:25	1
Sulfide	ND		1.0		mg/L			03/04/13 21:50	1
Total Dissolved Solids	**1500**		10		mg/L			03/03/13 23:25	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: IW-2
Date Collected: 02/26/13 15:00
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-12
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			03/06/13 05:40	10
Benzene	ND		5.0		ug/L			03/06/13 05:40	10
Ethylbenzene	ND		5.0		ug/L			03/06/13 05:40	10
Naphthalene	**480**		10		ug/L			03/06/13 05:40	10
Toluene	ND		5.0		ug/L			03/06/13 05:40	10
Xylenes, Total	ND		10		ug/L			03/06/13 05:40	10
Gasoline Range Organics (GRO) -C5-C12	ND		500		ug/L			03/06/13 05:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*03/06/13 05:40*	*10*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 138*		*03/06/13 05:40*	*10*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/06/13 05:40*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**1.5**		0.00099		mg/L			02/28/13 21:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6200**		100		ug/L		03/04/13 09:10	03/05/13 18:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*54*		*23 - 156*	*03/04/13 09:10*	*03/05/13 18:15*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**150**		0.20		mg/L		02/28/13 21:03	03/02/13 01:41	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**6.4**		0.20		mg/L		02/28/13 21:55	03/01/13 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 01:59	1
Sulfate	ND		1.0		mg/L			02/28/13 01:59	1
Sulfide	**5.4**		1.0		mg/L			03/04/13 21:52	1
Total Dissolved Solids	**3500**		25		mg/L			03/03/13 23:27	1

Client Sample ID: IW-3

Date Collected: 02/26/13 14:05
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-13

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			03/06/13 06:08	1
Benzene	ND		0.50		ug/L			03/06/13 06:08	1
Ethylbenzene	**0.58**		0.50		ug/L			03/06/13 06:08	1
Naphthalene	**430**		20		ug/L			03/07/13 17:53	20
Toluene	ND		0.50		ug/L			03/06/13 06:08	1
Xylenes, Total	ND		1.0		ug/L			03/06/13 06:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/06/13 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*03/06/13 06:08*	*1*
4-Bromofluorobenzene	*86*		*67 - 130*		*03/07/13 17:53*	*20*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 138*		*03/06/13 06:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*		*03/07/13 17:53*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*03/06/13 06:08*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/07/13 17:53*	*20*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.8**		0.00099		mg/L			02/28/13 22:04	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		50		ug/L		03/04/13 09:10	03/05/13 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*72*		*23 - 156*	*03/04/13 09:10*	*03/05/13 18:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**140**		0.20		mg/L		02/28/13 21:03	03/02/13 01:46	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**20**		0.20		mg/L		02/28/13 21:55	03/01/13 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 02:34	1
Sulfate	ND		1.0		mg/L			02/28/13 02:34	1
Sulfide	**8.2**		1.0		mg/L			03/04/13 21:55	1
Total Dissolved Solids	**2800**		17		mg/L			03/03/13 23:30	1

Client Sample ID: IW-4

Date Collected: 02/26/13 14:15
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-14

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			03/08/13 05:06	10
Benzene	ND		5.0		ug/L			03/08/13 05:06	10
Ethylbenzene	ND		5.0		ug/L			03/08/13 05:06	10
Naphthalene	**24**		10		ug/L			03/08/13 05:06	10
Toluene	ND		5.0		ug/L			03/08/13 05:06	10
Xylenes, Total	ND		10		ug/L			03/08/13 05:06	10
Gasoline Range Organics (GRO) -C5-C12	**5600**		500		ug/L			03/08/13 05:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*03/08/13 05:06*	*10*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 138*		*03/08/13 05:06*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/08/13 05:06*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.9**		0.00099		mg/L			02/28/13 22:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**34000**		500		ug/L		03/04/13 09:10	03/07/13 01:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*23 - 156*	*03/04/13 09:10*	*03/07/13 01:09*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**53**		0.20		mg/L		02/28/13 21:03	03/02/13 01:51	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.5**		0.20		mg/L		02/28/13 21:55	03/01/13 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 03:42	1
Sulfate	**5.1**		1.0		mg/L			02/28/13 03:42	1
Sulfide	**1.0**		1.0		mg/L			03/04/13 21:57	1
Total Dissolved Solids	**1200**		10		mg/L			03/03/13 23:32	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: IW-5

Date Collected: 02/26/13 14:00
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-15

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			03/08/13 05:34	1
Benzene	ND		0.50		ug/L			03/08/13 05:34	1
Ethylbenzene	ND		0.50		ug/L			03/08/13 05:34	1
Naphthalene	**3.8**		1.0		ug/L			03/08/13 05:34	1
Toluene	ND		0.50		ug/L			03/08/13 05:34	1
Xylenes, Total	ND		1.0		ug/L			03/08/13 05:34	1
Gasoline Range Organics (GRO) -C5-C12	**3200**		50		ug/L			03/08/13 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*67 - 130*		*03/08/13 05:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 138*		*03/08/13 05:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/08/13 05:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.2**		0.00099		mg/L			02/28/13 22:33	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25000**		500		ug/L		03/04/13 09:10	03/07/13 01:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*23 - 156*	*03/04/13 09:10*	*03/07/13 01:38*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**45**		0.20		mg/L		02/28/13 21:03	03/02/13 01:56	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**6.0**		0.20		mg/L		02/28/13 21:55	03/01/13 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 04:17	1
Sulfate	**1.2**		1.0		mg/L			02/28/13 04:17	1
Sulfide	ND		1.0		mg/L			03/04/13 22:00	1
Total Dissolved Solids	**730**		10		mg/L			03/03/13 23:35	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: IW-6
Date Collected: 02/26/13 13:45
Date Received: 02/27/13 12:40

Lab Sample ID: 720-48033-16
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			03/08/13 06:02	1
Benzene	**0.50**		0.50		ug/L			03/08/13 06:02	1
Ethylbenzene	ND		0.50		ug/L			03/08/13 06:02	1
Naphthalene	**4.4**		1.0		ug/L			03/08/13 06:02	1
Toluene	ND		0.50		ug/L			03/08/13 06:02	1
Xylenes, Total	ND		1.0		ug/L			03/08/13 06:02	1
Gasoline Range Organics (GRO) -C5-C12	**120**		50		ug/L			03/08/13 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*03/08/13 06:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 138*		*03/08/13 06:02*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*03/08/13 06:02*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.3**		0.00099		mg/L			02/28/13 22:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4800**		100		ug/L		03/04/13 09:10	03/07/13 02:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*23 - 156*	*03/04/13 09:10*	*03/07/13 02:07*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**290**		0.20		mg/L		02/28/13 21:03	03/02/13 02:00	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**42**		0.20		mg/L		02/28/13 21:55	03/01/13 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/28/13 04:51	1
Sulfate	**8.1**		1.0		mg/L			02/28/13 04:51	1
Sulfide	**2.2**		1.0		mg/L			03/04/13 22:02	1
Total Dissolved Solids	**6600**		50		mg/L			03/03/13 23:37	1

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

Lab Sample ID: MB 720-131679/4
Matrix: Water
Analysis Batch: 131679

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			03/05/13 08:54	1
Benzene	ND		0.50		ug/L			03/05/13 08:54	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 08:54	1
Naphthalene	ND		1.0		ug/L			03/05/13 08:54	1
Toluene	ND		0.50		ug/L			03/05/13 08:54	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 08:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 08:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*03/05/13 08:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 138*		*03/05/13 08:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/05/13 08:54*	*1*

Lab Sample ID: LCS 720-131679/5
Matrix: Water
Analysis Batch: 131679

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	25.0		ug/L		100	62 - 130
Benzene	25.0	22.4		ug/L		90	79 - 130
Ethylbenzene	25.0	22.7		ug/L		91	80 - 120
Naphthalene	25.0	20.3		ug/L		81	70 - 130
Toluene	25.0	23.0		ug/L		92	78 - 120
m-Xylene & p-Xylene	50.0	46.9		ug/L		94	70 - 142
o-Xylene	25.0	22.5		ug/L		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 138*
Toluene-d8 (Surr)	*121*		*70 - 130*

Lab Sample ID: LCS 720-131679/9
Matrix: Water
Analysis Batch: 131679

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	489		ug/L		98	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: LCSD 720-131679/10
Matrix: Water
Analysis Batch: 131679

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	62 - 120	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 138*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-131679/6
Matrix: Water
Analysis Batch: 131679

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	19.0	*	ug/L		76	62 - 130	27	20
Benzene	25.0	23.7		ug/L		95	79 - 130	6	20
Ethylbenzene	25.0	26.3		ug/L		105	80 - 120	15	20
Naphthalene	25.0	19.8		ug/L		79	70 - 130	3	20
Toluene	25.0	27.0		ug/L		108	78 - 120	16	20
m-Xylene & p-Xylene	50.0	47.0		ug/L		94	70 - 142	0	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 720-48033-3 MS
Matrix: Water
Analysis Batch: 131679

Client Sample ID: MW-4
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	25.4		ug/L		102	60 - 138
Benzene	ND		25.0	23.4		ug/L		94	60 - 140
Ethylbenzene	ND		25.0	24.4		ug/L		97	60 - 140
Naphthalene	ND		25.0	24.4		ug/L		96	56 - 140
Toluene	ND		25.0	25.1		ug/L		100	60 - 140
m-Xylene & p-Xylene	ND		50.0	50.2		ug/L		100	60 - 140
o-Xylene	ND		25.0	25.9		ug/L		104	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*
Toluene-d8 (Surr)	*112*		*70 - 130*

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

Lab Sample ID: 720-48033-3 MSD
Matrix: Water
Analysis Batch: 131679

Client Sample ID: MW-4
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	23.9		ug/L		95	60 - 138	6	20
Benzene	ND		25.0	24.8		ug/L		99	60 - 140	5	20
Ethylbenzene	ND		25.0	22.6		ug/L		90	60 - 140	7	20
Naphthalene	ND		25.0	21.2		ug/L		83	56 - 140	14	20
Toluene	ND		25.0	25.9		ug/L		104	60 - 140	3	20
m-Xylene & p-Xylene	ND		50.0	46.8		ug/L		94	60 - 140	7	20
o-Xylene	ND		25.0	24.1		ug/L		97	60 - 140	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 138*
Toluene-d8 (Surr)	*124*		*70 - 130*

Lab Sample ID: MB 720-131732/5
Matrix: Water
Analysis Batch: 131732

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			03/05/13 19:52	1
Benzene	ND		0.50		ug/L			03/05/13 19:52	1
Ethylbenzene	ND		0.50		ug/L			03/05/13 19:52	1
Naphthalene	ND		1.0		ug/L			03/05/13 19:52	1
Toluene	ND		0.50		ug/L			03/05/13 19:52	1
Xylenes, Total	ND		1.0		ug/L			03/05/13 19:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/05/13 19:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*03/05/13 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 138*		*03/05/13 19:52*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/05/13 19:52*	*1*

Lab Sample ID: LCS 720-131732/6
Matrix: Water
Analysis Batch: 131732

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	26.5		ug/L		106	62 - 130
Benzene	25.0	23.4		ug/L		94	79 - 130
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120
Naphthalene	25.0	21.9		ug/L		87	70 - 130
Toluene	25.0	23.6		ug/L		95	78 - 120
m-Xylene & p-Xylene	50.0	50.7		ug/L		101	70 - 142
o-Xylene	25.0	24.9		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*67 - 130*

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

Lab Sample ID: LCS 720-131732/6
Matrix: Water
Analysis Batch: 131732

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCS 720-131732/8
Matrix: Water
Analysis Batch: 131732

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	490		ug/L		98	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 720-131732/7
Matrix: Water
Analysis Batch: 131732

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	25.9		ug/L		103	62 - 130	2	20
Benzene			25.0	23.4		ug/L		93	79 - 130	0	20
Ethylbenzene			25.0	23.6		ug/L		95	80 - 120	0	20
Naphthalene			25.0	21.7		ug/L		87	70 - 130	1	20
Toluene			25.0	23.6		ug/L		95	78 - 120	0	20
m-Xylene & p-Xylene			50.0	50.5		ug/L		101	70 - 142	0	20
o-Xylene			25.0	24.9		ug/L		99	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 720-131732/9
Matrix: Water
Analysis Batch: 131732

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	491		ug/L		98	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 138*
Toluene-d8 (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 720-131850/4
Matrix: Water
Analysis Batch: 131850

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			03/07/13 09:41	1
Benzene	ND		0.50		ug/L			03/07/13 09:41	1
Ethylbenzene	ND		0.50		ug/L			03/07/13 09:41	1
Naphthalene	ND		1.0		ug/L			03/07/13 09:41	1
Toluene	ND		0.50		ug/L			03/07/13 09:41	1
Xylenes, Total	ND		1.0		ug/L			03/07/13 09:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/07/13 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*03/07/13 09:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*03/07/13 09:41*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/07/13 09:41*	*1*

Lab Sample ID: LCS 720-131850/5
Matrix: Water
Analysis Batch: 131850

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	27.9		ug/L		112	62 - 130
Benzene	25.0	25.5		ug/L		102	79 - 130
Ethylbenzene	25.0	24.9		ug/L		100	80 - 120
Naphthalene	25.0	22.9		ug/L		91	70 - 130
Toluene	25.0	24.4		ug/L		98	78 - 120
m-Xylene & p-Xylene	50.0	51.0		ug/L		102	70 - 142
o-Xylene	25.0	27.0		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCS 720-131850/7
Matrix: Water
Analysis Batch: 131850

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	467		ug/L		93	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: LCSD 720-131850/6
Matrix: Water
Analysis Batch: 131850

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	29.5		ug/L		118	62 - 130	5	20
Benzene			25.0	25.5		ug/L		102	79 - 130	0	20
Ethylbenzene			25.0	24.3		ug/L		97	80 - 120	2	20
Naphthalene			25.0	24.6		ug/L		98	70 - 130	7	20
Toluene			25.0	24.1		ug/L		96	78 - 120	1	20
m-Xylene & p-Xylene			50.0	49.5		ug/L		99	70 - 142	3	20
o-Xylene			25.0	26.4		ug/L		106	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-131850/8
Matrix: Water
Analysis Batch: 131850

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	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-131897/4
Matrix: Water
Analysis Batch: 131897

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			03/07/13 19:43	1
Benzene	ND		0.50		ug/L			03/07/13 19:43	1
Ethylbenzene	ND		0.50		ug/L			03/07/13 19:43	1
Naphthalene	ND		1.0		ug/L			03/07/13 19:43	1
Toluene	ND		0.50		ug/L			03/07/13 19:43	1
Xylenes, Total	ND		1.0		ug/L			03/07/13 19:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/07/13 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*03/07/13 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*		*03/07/13 19:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/07/13 19:43*	*1*

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

Lab Sample ID: LCS 720-131897/5
Matrix: Water
Analysis Batch: 131897

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	30.8		ug/L		123	62 - 130
Benzene	25.0	26.0		ug/L		104	79 - 130
Ethylbenzene	25.0	26.7		ug/L		107	80 - 120
Naphthalene	25.0	23.5		ug/L		94	70 - 130
Toluene	25.0	26.6		ug/L		106	78 - 120
m-Xylene & p-Xylene	50.0	57.3		ug/L		115	70 - 142
o-Xylene	25.0	28.2		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 138*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCS 720-131897/7
Matrix: Water
Analysis Batch: 131897

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	522		ug/L		104	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 720-131897/6
Matrix: Water
Analysis Batch: 131897

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	30.7		ug/L		123	62 - 130	0	20
Benzene	25.0	26.0		ug/L		104	79 - 130	0	20
Ethylbenzene	25.0	26.7		ug/L		107	80 - 120	0	20
Naphthalene	25.0	24.7		ug/L		99	70 - 130	5	20
Toluene	25.0	26.4		ug/L		106	78 - 120	1	20
m-Xylene & p-Xylene	50.0	57.0		ug/L		114	70 - 142	1	20
o-Xylene	25.0	27.7		ug/L		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

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

Lab Sample ID: LCSD 720-131897/8
Matrix: Water
Analysis Batch: 131897

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	501		ug/L		100	62 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 138*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 720-131989/4
Matrix: Water
Analysis Batch: 131989

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			03/08/13 16:34	1
Benzene	ND		0.50		ug/L			03/08/13 16:34	1
Ethylbenzene	ND		0.50		ug/L			03/08/13 16:34	1
Naphthalene	ND		1.0		ug/L			03/08/13 16:34	1
Toluene	ND		0.50		ug/L			03/08/13 16:34	1
Xylenes, Total	ND		1.0		ug/L			03/08/13 16:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/08/13 16:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*03/08/13 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 138*		*03/08/13 16:34*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/08/13 16:34*	*1*

Lab Sample ID: LCS 720-131989/5
Matrix: Water
Analysis Batch: 131989

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	28.3		ug/L		113	62 - 130
Benzene			25.0	24.5		ug/L		98	79 - 130
Ethylbenzene			25.0	24.8		ug/L		99	80 - 120
Naphthalene			25.0	26.9		ug/L		108	70 - 130
Toluene			25.0	24.8		ug/L		99	78 - 120
m-Xylene & p-Xylene			50.0	51.7		ug/L		103	70 - 142
o-Xylene			25.0	26.4		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: LCS 720-131989/7
Matrix: Water
Analysis Batch: 131989

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	476		ug/L		95	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 138*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-131989/6
Matrix: Water
Analysis Batch: 131989

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	27.8		ug/L		111	62 - 130	2	20
Benzene			25.0	24.5		ug/L		98	79 - 130	0	20
Ethylbenzene			25.0	24.4		ug/L		98	80 - 120	2	20
Naphthalene			25.0	26.7		ug/L		107	70 - 130	1	20
Toluene			25.0	24.4		ug/L		98	78 - 120	2	20
m-Xylene & p-Xylene			50.0	50.7		ug/L		101	70 - 142	2	20
o-Xylene			25.0	26.0		ug/L		104	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-131989/8
Matrix: Water
Analysis Batch: 131989

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	481		ug/L		96	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 138*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 340-4216/8
Matrix: Water
Analysis Batch: 4216

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		0.00099		mg/L			02/28/13 17:27	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 340-4216/4
Matrix: Water
Analysis Batch: 4216

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	9.42	9.71		mg/L		103	80 - 120

Lab Sample ID: LCS 340-4216/6
Matrix: Water
Analysis Batch: 4216

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (FID)	0.0471	0.0445		mg/L		94	80 - 120

Lab Sample ID: LCSD 340-4216/5
Matrix: Water
Analysis Batch: 4216

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
Methane (TCD)	9.42	9.38		mg/L		100	80 - 120	3	20

Lab Sample ID: LCSD 340-4216/7
Matrix: Water
Analysis Batch: 4216

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
Methane (FID)	0.0471	0.0450		mg/L		95	80 - 120	1	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-131608/1-A
Matrix: Water
Analysis Batch: 131674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		03/04/13 09:10	03/05/13 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*23 - 156*	*03/04/13 09:10*	*03/05/13 12:00*	*1*

Lab Sample ID: LCS 720-131608/2-A
Matrix: Water
Analysis Batch: 131674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1540		ug/L		61	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*90*		*23 - 156*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-131608/3-A
Matrix: Water
Analysis Batch: 131674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131608

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1570		ug/L		63	40 - 150	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*97*		*23 - 156*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-131466/1-A
Matrix: Water
Analysis Batch: 131604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20		mg/L		02/28/13 21:03	03/01/13 23:56	1

Lab Sample ID: LCS 720-131466/2-A
Matrix: Water
Analysis Batch: 131604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Magnesium			10.0	10.1		mg/L		101	80 - 120		

Lab Sample ID: LCSD 720-131466/3-A
Matrix: Water
Analysis Batch: 131604

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium			10.0	10.3		mg/L		103	80 - 120	2	20

Lab Sample ID: MB 720-131472/1-A
Matrix: Water
Analysis Batch: 131539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 131472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20		mg/L		02/28/13 21:55	03/01/13 13:10	1

Lab Sample ID: LCS 720-131472/2-A
Matrix: Water
Analysis Batch: 131539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 131472

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	9.08		mg/L		91	80 - 120		

Lab Sample ID: LCSD 720-131472/3-A
Matrix: Water
Analysis Batch: 131539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 131472

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			10.0	9.13		mg/L		91	80 - 120	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-48033-1 MS
Matrix: Water
Analysis Batch: 131539

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 131472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	4.1		10.0	12.5		mg/L		83	75 - 125

Lab Sample ID: 720-48033-1 MSD
Matrix: Water
Analysis Batch: 131602

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 131472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	4.1		10.0	12.4		mg/L		83	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-131364/4
Matrix: Water
Analysis Batch: 131364

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			02/27/13 16:08	1

Lab Sample ID: LCS 720-131364/5
Matrix: Water
Analysis Batch: 131364

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.87		mg/L		99	90 - 110

Lab Sample ID: 720-48033-A-2 MS
Matrix: Water
Analysis Batch: 131364

Client Sample ID: 720-48033-A-2 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND		100	98.1		mg/L		98	80 - 120

Lab Sample ID: 720-48033-A-2 MSD
Matrix: Water
Analysis Batch: 131364

Client Sample ID: 720-48033-A-2 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		100	102		mg/L		102	80 - 120	3	20

Lab Sample ID: MB 720-131365/4
Matrix: Water
Analysis Batch: 131365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			02/27/13 16:08	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-131365/5
Matrix: Water
Analysis Batch: 131365

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			2.26	2.26		mg/L		100	90 - 110		

Lab Sample ID: 720-48033-A-2 MS
Matrix: Water
Analysis Batch: 131365

Client Sample ID: 720-48033-A-2 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		22.6	23.0		mg/L		102	80 - 120		

Lab Sample ID: 720-48033-A-2 MSD
Matrix: Water
Analysis Batch: 131365

Client Sample ID: 720-48033-A-2 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		22.6	22.9		mg/L		101	80 - 120	1	20

Method: 376.1 - Sulfide

Lab Sample ID: MB 500-179064/1
Matrix: Water
Analysis Batch: 179064

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			03/04/13 21:15	1

Lab Sample ID: LCS 500-179064/2
Matrix: Water
Analysis Batch: 179064

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			3.46	3.82		mg/L		111	80 - 120		

Lab Sample ID: 720-48033-1 MS
Matrix: Water
Analysis Batch: 179064

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	ND		8.64	7.05		mg/L		82	75 - 125		

Lab Sample ID: 720-48033-1 MSD
Matrix: Water
Analysis Batch: 179064

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		8.64	6.93		mg/L		80	75 - 125	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-178951/1
Matrix: Water
Analysis Batch: 178951

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			03/02/13 16:05	1

Lab Sample ID: LCS 500-178951/2
Matrix: Water
Analysis Batch: 178951

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	228		mg/L		91	80 - 120

Lab Sample ID: MB 500-178959/1
Matrix: Water
Analysis Batch: 178959

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			03/03/13 22:45	1

Lab Sample ID: LCS 500-178959/2
Matrix: Water
Analysis Batch: 178959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	218		mg/L		87	80 - 120

GC/MS VOA

Analysis Batch: 131679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-2	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-3 MS	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-3 MSD	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-4	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-5	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-6	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-7	MW-11	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-8	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131679/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131679/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131679/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131679/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-131679/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 131732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-9	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-10	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-12	IW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-13	IW-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131732/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131732/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131732/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131732/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-131732/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 131850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-8	MW-12	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 131850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-13	IW-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131850/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131850/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131850/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131850/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-131850/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 131897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-14	IW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-15	IW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-48033-16	IW-6	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131897/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131897/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131897/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131897/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-131897/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 131989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-11	IW-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131989/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-131989/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131989/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-131989/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-131989/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC VOA

Analysis Batch: 4216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	RSK-175	
720-48033-2	MW-3	Total/NA	Water	RSK-175	
720-48033-3	MW-4	Total/NA	Water	RSK-175	
720-48033-4	MW-8	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 4216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-5	MW-9	Total/NA	Water	RSK-175	
720-48033-6	MW-10	Total/NA	Water	RSK-175	
720-48033-7	MW-11	Total/NA	Water	RSK-175	
720-48033-8	MW-12	Total/NA	Water	RSK-175	
720-48033-9	MW-13	Total/NA	Water	RSK-175	
720-48033-10	MW-14	Total/NA	Water	RSK-175	
720-48033-11	IW-1	Total/NA	Water	RSK-175	
720-48033-12	IW-2	Total/NA	Water	RSK-175	
720-48033-13	IW-3	Total/NA	Water	RSK-175	
720-48033-14	IW-4	Total/NA	Water	RSK-175	
720-48033-15	IW-5	Total/NA	Water	RSK-175	
720-48033-16	IW-6	Total/NA	Water	RSK-175	
LCS 340-4216/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 340-4216/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 340-4216/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 340-4216/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 340-4216/8	Method Blank	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 131608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	3510C	
720-48033-2	MW-3	Total/NA	Water	3510C	
720-48033-3	MW-4	Total/NA	Water	3510C	
720-48033-4	MW-8	Total/NA	Water	3510C	
720-48033-5	MW-9	Total/NA	Water	3510C	
720-48033-6	MW-10	Total/NA	Water	3510C	
720-48033-7	MW-11	Total/NA	Water	3510C	
720-48033-8	MW-12	Total/NA	Water	3510C	
720-48033-9	MW-13	Total/NA	Water	3510C	
720-48033-10	MW-14	Total/NA	Water	3510C	
720-48033-11	IW-1	Total/NA	Water	3510C	
720-48033-12	IW-2	Total/NA	Water	3510C	
720-48033-13	IW-3	Total/NA	Water	3510C	
720-48033-14	IW-4	Total/NA	Water	3510C	
720-48033-15	IW-5	Total/NA	Water	3510C	
720-48033-16	IW-6	Total/NA	Water	3510C	
LCS 720-131608/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-131608/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-131608/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 131673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-4	MW-8	Total/NA	Water	8015B	131608
720-48033-5	MW-9	Total/NA	Water	8015B	131608
720-48033-6	MW-10	Total/NA	Water	8015B	131608
720-48033-7	MW-11	Total/NA	Water	8015B	131608
720-48033-8	MW-12	Total/NA	Water	8015B	131608
720-48033-9	MW-13	Total/NA	Water	8015B	131608

GC Semi VOA (Continued)

Analysis Batch: 131673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-11	IW-1	Total/NA	Water	8015B	131608
720-48033-12	IW-2	Total/NA	Water	8015B	131608
720-48033-13	IW-3	Total/NA	Water	8015B	131608

Analysis Batch: 131674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	8015B	131608
720-48033-2	MW-3	Total/NA	Water	8015B	131608
720-48033-3	MW-4	Total/NA	Water	8015B	131608
LCS 720-131608/2-A	Lab Control Sample	Total/NA	Water	8015B	131608
LCSD 720-131608/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	131608
MB 720-131608/1-A	Method Blank	Total/NA	Water	8015B	131608

Analysis Batch: 131757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-14	IW-4	Total/NA	Water	8015B	131608
720-48033-15	IW-5	Total/NA	Water	8015B	131608
720-48033-16	IW-6	Total/NA	Water	8015B	131608

Analysis Batch: 131758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-10	MW-14	Total/NA	Water	8015B	131608

Metals

Prep Batch: 131466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	3010A	
720-48033-2	MW-3	Total/NA	Water	3010A	
720-48033-3	MW-4	Total/NA	Water	3010A	
720-48033-4	MW-8	Total/NA	Water	3010A	
720-48033-5	MW-9	Total/NA	Water	3010A	
720-48033-6	MW-10	Total/NA	Water	3010A	
720-48033-7	MW-11	Total/NA	Water	3010A	
720-48033-8	MW-12	Total/NA	Water	3010A	
720-48033-9	MW-13	Total/NA	Water	3010A	
720-48033-10	MW-14	Total/NA	Water	3010A	
720-48033-11	IW-1	Total/NA	Water	3010A	
720-48033-12	IW-2	Total/NA	Water	3010A	
720-48033-13	IW-3	Total/NA	Water	3010A	
720-48033-14	IW-4	Total/NA	Water	3010A	
720-48033-15	IW-5	Total/NA	Water	3010A	
720-48033-16	IW-6	Total/NA	Water	3010A	
LCS 720-131466/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-131466/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-131466/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 131472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 131472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1 MS	MW-2	Dissolved	Water	3005A	
720-48033-1 MSD	MW-2	Dissolved	Water	3005A	
720-48033-2	MW-3	Dissolved	Water	3005A	
720-48033-3	MW-4	Dissolved	Water	3005A	
720-48033-4	MW-8	Dissolved	Water	3005A	
720-48033-5	MW-9	Dissolved	Water	3005A	
720-48033-6	MW-10	Dissolved	Water	3005A	
720-48033-7	MW-11	Dissolved	Water	3005A	
720-48033-8	MW-12	Dissolved	Water	3005A	
720-48033-9	MW-13	Dissolved	Water	3005A	
720-48033-10	MW-14	Dissolved	Water	3005A	
720-48033-11	IW-1	Dissolved	Water	3005A	
720-48033-12	IW-2	Dissolved	Water	3005A	
720-48033-13	IW-3	Dissolved	Water	3005A	
720-48033-14	IW-4	Dissolved	Water	3005A	
720-48033-15	IW-5	Dissolved	Water	3005A	
720-48033-16	IW-6	Dissolved	Water	3005A	
LCS 720-131472/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-131472/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-131472/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 131539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Dissolved	Water	6010B	131472
720-48033-1 MS	MW-2	Dissolved	Water	6010B	131472
720-48033-2	MW-3	Dissolved	Water	6010B	131472
720-48033-3	MW-4	Dissolved	Water	6010B	131472
720-48033-4	MW-8	Dissolved	Water	6010B	131472
720-48033-5	MW-9	Dissolved	Water	6010B	131472
720-48033-6	MW-10	Dissolved	Water	6010B	131472
720-48033-7	MW-11	Dissolved	Water	6010B	131472
720-48033-8	MW-12	Dissolved	Water	6010B	131472
720-48033-9	MW-13	Dissolved	Water	6010B	131472
720-48033-10	MW-14	Dissolved	Water	6010B	131472
720-48033-11	IW-1	Dissolved	Water	6010B	131472
720-48033-12	IW-2	Dissolved	Water	6010B	131472
720-48033-13	IW-3	Dissolved	Water	6010B	131472
720-48033-14	IW-4	Dissolved	Water	6010B	131472
720-48033-15	IW-5	Dissolved	Water	6010B	131472
720-48033-16	IW-6	Dissolved	Water	6010B	131472
LCS 720-131472/2-A	Lab Control Sample	Total Recoverable	Water	6010B	131472
LCSD 720-131472/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	131472
MB 720-131472/1-A	Method Blank	Total Recoverable	Water	6010B	131472

Analysis Batch: 131602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1 MSD	MW-2	Dissolved	Water	6010B	131472

Analysis Batch: 131604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	6010B	131466

Metals (Continued)

Analysis Batch: 131604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-2	MW-3	Total/NA	Water	6010B	131466
720-48033-3	MW-4	Total/NA	Water	6010B	131466
720-48033-4	MW-8	Total/NA	Water	6010B	131466
720-48033-5	MW-9	Total/NA	Water	6010B	131466
720-48033-6	MW-10	Total/NA	Water	6010B	131466
720-48033-7	MW-11	Total/NA	Water	6010B	131466
720-48033-8	MW-12	Total/NA	Water	6010B	131466
720-48033-9	MW-13	Total/NA	Water	6010B	131466
720-48033-10	MW-14	Total/NA	Water	6010B	131466
720-48033-11	IW-1	Total/NA	Water	6010B	131466
720-48033-12	IW-2	Total/NA	Water	6010B	131466
720-48033-13	IW-3	Total/NA	Water	6010B	131466
720-48033-14	IW-4	Total/NA	Water	6010B	131466
720-48033-15	IW-5	Total/NA	Water	6010B	131466
720-48033-16	IW-6	Total/NA	Water	6010B	131466
LCS 720-131466/2-A	Lab Control Sample	Total/NA	Water	6010B	131466
LCSD 720-131466/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	131466
MB 720-131466/1-A	Method Blank	Total/NA	Water	6010B	131466

General Chemistry

Analysis Batch: 131364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	300.0	
720-48033-2	MW-3	Total/NA	Water	300.0	
720-48033-3	MW-4	Total/NA	Water	300.0	
720-48033-4	MW-8	Total/NA	Water	300.0	
720-48033-5	MW-9	Total/NA	Water	300.0	
720-48033-6	MW-10	Total/NA	Water	300.0	
720-48033-7	MW-11	Total/NA	Water	300.0	
720-48033-8	MW-12	Total/NA	Water	300.0	
720-48033-9	MW-13	Total/NA	Water	300.0	
720-48033-10	MW-14	Total/NA	Water	300.0	
720-48033-11	IW-1	Total/NA	Water	300.0	
720-48033-12	IW-2	Total/NA	Water	300.0	
720-48033-13	IW-3	Total/NA	Water	300.0	
720-48033-14	IW-4	Total/NA	Water	300.0	
720-48033-15	IW-5	Total/NA	Water	300.0	
720-48033-16	IW-6	Total/NA	Water	300.0	
720-48033-A-2 MS	720-48033-A-2 MS	Total/NA	Water	300.0	
720-48033-A-2 MSD	720-48033-A-2 MSD	Total/NA	Water	300.0	
LCS 720-131364/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-131364/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 131365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	300.0	
720-48033-2	MW-3	Total/NA	Water	300.0	
720-48033-3	MW-4	Total/NA	Water	300.0	
720-48033-4	MW-8	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 131365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-5	MW-9	Total/NA	Water	300.0	
720-48033-6	MW-10	Total/NA	Water	300.0	
720-48033-7	MW-11	Total/NA	Water	300.0	
720-48033-8	MW-12	Total/NA	Water	300.0	
720-48033-9	MW-13	Total/NA	Water	300.0	
720-48033-10	MW-14	Total/NA	Water	300.0	
720-48033-11	IW-1	Total/NA	Water	300.0	
720-48033-12	IW-2	Total/NA	Water	300.0	
720-48033-13	IW-3	Total/NA	Water	300.0	
720-48033-14	IW-4	Total/NA	Water	300.0	
720-48033-15	IW-5	Total/NA	Water	300.0	
720-48033-16	IW-6	Total/NA	Water	300.0	
720-48033-A-2 MS	720-48033-A-2 MS	Total/NA	Water	300.0	
720-48033-A-2 MSD	720-48033-A-2 MSD	Total/NA	Water	300.0	
LCS 720-131365/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-131365/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 178951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	SM 2540C	
720-48033-2	MW-3	Total/NA	Water	SM 2540C	
720-48033-3	MW-4	Total/NA	Water	SM 2540C	
720-48033-4	MW-8	Total/NA	Water	SM 2540C	
720-48033-5	MW-9	Total/NA	Water	SM 2540C	
720-48033-6	MW-10	Total/NA	Water	SM 2540C	
720-48033-7	MW-11	Total/NA	Water	SM 2540C	
720-48033-8	MW-12	Total/NA	Water	SM 2540C	
720-48033-9	MW-13	Total/NA	Water	SM 2540C	
LCS 500-178951/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-178951/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 178959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-10	MW-14	Total/NA	Water	SM 2540C	
720-48033-11	IW-1	Total/NA	Water	SM 2540C	
720-48033-12	IW-2	Total/NA	Water	SM 2540C	
720-48033-13	IW-3	Total/NA	Water	SM 2540C	
720-48033-14	IW-4	Total/NA	Water	SM 2540C	
720-48033-15	IW-5	Total/NA	Water	SM 2540C	
720-48033-16	IW-6	Total/NA	Water	SM 2540C	
LCS 500-178959/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-178959/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 179064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-1	MW-2	Total/NA	Water	376.1	
720-48033-1 MS	MW-2	Total/NA	Water	376.1	
720-48033-1 MSD	MW-2	Total/NA	Water	376.1	
720-48033-2	MW-3	Total/NA	Water	376.1	
720-48033-3	MW-4	Total/NA	Water	376.1	
720-48033-4	MW-8	Total/NA	Water	376.1	

General Chemistry (Continued)

Analysis Batch: 179064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48033-5	MW-9	Total/NA	Water	376.1	
720-48033-6	MW-10	Total/NA	Water	376.1	
720-48033-7	MW-11	Total/NA	Water	376.1	
720-48033-8	MW-12	Total/NA	Water	376.1	
720-48033-9	MW-13	Total/NA	Water	376.1	
720-48033-10	MW-14	Total/NA	Water	376.1	
720-48033-11	IW-1	Total/NA	Water	376.1	
720-48033-12	IW-2	Total/NA	Water	376.1	
720-48033-13	IW-3	Total/NA	Water	376.1	
720-48033-14	IW-4	Total/NA	Water	376.1	
720-48033-15	IW-5	Total/NA	Water	376.1	
720-48033-16	IW-6	Total/NA	Water	376.1	
LCS 500-179064/2	Lab Control Sample	Total/NA	Water	376.1	
MB 500-179064/1	Method Blank	Total/NA	Water	376.1	

Client Sample ID: MW-2

Lab Sample ID: 720-48033-1

Date Collected: 02/26/13 15:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 14:41	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 18:09	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		20	131674	03/05/13 12:29	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:02	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 00:40	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:44	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:20		
					(End)	03/04/13 21:22		
Total/NA	Analysis	300.0		1	131364	02/27/13 17:57	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 17:57	EYT	TAL SF

Client Sample ID: MW-3

Lab Sample ID: 720-48033-2

Date Collected: 02/26/13 14:30

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 15:08	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 18:23	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		2	131674	03/05/13 12:58	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:07	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 00:45	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:47	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:27		
					(End)	03/04/13 21:30		
Total/NA	Analysis	300.0		1	131364	02/27/13 18:31	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 18:31	EYT	TAL SF

Client Sample ID: MW-4

Lab Sample ID: 720-48033-3

Date Collected: 02/26/13 14:45

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 14:15	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 18:37	TD	TAL LA

Client Sample ID: MW-4

Lab Sample ID: 720-48033-3

Date Collected: 02/26/13 14:45

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		2	131674	03/05/13 13:31	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:12	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 00:50	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:49	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:30		
					(End)	03/04/13 21:32		
Total/NA	Analysis	300.0		1	131364	02/27/13 19:40	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 19:40	EYT	TAL SF

Client Sample ID: MW-8

Lab Sample ID: 720-48033-4

Date Collected: 02/26/13 15:15

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 15:34	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 18:50	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131673	03/05/13 13:31	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:16	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 00:55	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:52	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:32		
					(End)	03/04/13 21:35		
Total/NA	Analysis	300.0		1	131364	02/27/13 20:49	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 20:49	EYT	TAL SF

Client Sample ID: MW-9

Lab Sample ID: 720-48033-5

Date Collected: 02/26/13 15:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 15:59	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 19:03	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131673	03/05/13 14:00	DH	TAL SF

Client Sample ID: MW-9

Lab Sample ID: 720-48033-5

Date Collected: 02/26/13 15:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:21	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:00	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:54	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:35		
					(End)	03/04/13 21:37		
Total/NA	Analysis	300.0		1	131364	02/27/13 21:23	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 21:23	EYT	TAL SF

Client Sample ID: MW-10

Lab Sample ID: 720-48033-6

Date Collected: 02/26/13 13:30

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 16:25	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 19:16	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131673	03/05/13 14:30	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:25	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:04	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 16:57	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:37		
					(End)	03/04/13 21:40		
Total/NA	Analysis	300.0		10	131364	02/27/13 22:15	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 21:57	EYT	TAL SF

Client Sample ID: MW-11

Lab Sample ID: 720-48033-7

Date Collected: 02/26/13 13:45

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 16:51	PD	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 19:37	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131673	03/05/13 14:59	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:30	EFH	TAL SF

Client Sample ID: MW-11

Lab Sample ID: 720-48033-7

Date Collected: 02/26/13 13:45

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:09	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 17:00	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:40		
					(End)	03/04/13 21:42		
Total/NA	Analysis	300.0		1	131364	02/27/13 22:32	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 22:32	EYT	TAL SF

Client Sample ID: MW-12

Lab Sample ID: 720-48033-8

Date Collected: 02/26/13 14:20

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131679	03/05/13 17:18	PD	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		10	131850	03/07/13 13:16	AC	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 20:56	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		20	131673	03/05/13 16:19	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:35	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:14	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 17:02	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:42		
					(End)	03/04/13 21:45		
Total/NA	Analysis	300.0		1	131364	02/27/13 23:08	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/27/13 23:08	EYT	TAL SF

Client Sample ID: MW-13

Lab Sample ID: 720-48033-9

Date Collected: 02/26/13 14:40

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131732	03/06/13 04:16	LL	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 21:11	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		2	131673	03/05/13 16:48	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:39	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF

Client Sample ID: MW-13

Lab Sample ID: 720-48033-9

Date Collected: 02/26/13 14:40

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	131604	03/02/13 01:19	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178951	03/02/13 17:05	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:45		
					(End)	03/04/13 21:47		
Total/NA	Analysis	300.0		1	131364	02/28/13 00:16	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 00:16	EYT	TAL SF

Client Sample ID: MW-14

Lab Sample ID: 720-48033-10

Date Collected: 02/26/13 13:30

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131732	03/06/13 04:44	LL	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 21:24	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131758	03/06/13 11:15	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:43	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:32	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:22	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:47		
					(End)	03/04/13 21:50		
Total/NA	Analysis	300.0		10	131364	02/28/13 01:08	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 00:51	EYT	TAL SF

Client Sample ID: IW-1

Lab Sample ID: 720-48033-11

Date Collected: 02/26/13 13:50

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	131989	03/08/13 18:44	LL	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 21:36	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		20	131673	03/05/13 17:46	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 14:57	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:37	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:25	CLB	TAL CHI

Client Sample ID: IW-1

Lab Sample ID: 720-48033-11

Date Collected: 02/26/13 13:50

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:50		
					(End)	03/04/13 21:52		
Total/NA	Analysis	300.0		1	131364	02/28/13 01:25	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 01:25	EYT	TAL SF

Client Sample ID: IW-2

Lab Sample ID: 720-48033-12

Date Collected: 02/26/13 15:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	131732	03/06/13 05:40	LL	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 21:50	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		2	131673	03/05/13 18:15	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 15:01	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:41	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:27	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:52		
					(End)	03/04/13 21:55		
Total/NA	Analysis	300.0		1	131364	02/28/13 01:59	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 01:59	EYT	TAL SF

Client Sample ID: IW-3

Lab Sample ID: 720-48033-13

Date Collected: 02/26/13 14:05

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131732	03/06/13 06:08	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		20	131850	03/07/13 17:53	AC	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 22:04	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		1	131673	03/05/13 18:44	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 15:06	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:46	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:30	CLB	TAL CHI

Client Sample ID: IW-3

Lab Sample ID: 720-48033-13

Date Collected: 02/26/13 14:05

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:55		
					(End)	03/04/13 21:57		
Total/NA	Analysis	300.0		1	131364	02/28/13 02:34	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 02:34	EYT	TAL SF

Client Sample ID: IW-4

Lab Sample ID: 720-48033-14

Date Collected: 02/26/13 14:15

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	131897	03/08/13 05:06	AC	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 22:17	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		10	131757	03/07/13 01:09	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 15:10	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:51	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:32	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 21:57		
					(End)	03/04/13 22:00		
Total/NA	Analysis	300.0		1	131364	02/28/13 03:42	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 03:42	EYT	TAL SF

Client Sample ID: IW-5

Lab Sample ID: 720-48033-15

Date Collected: 02/26/13 14:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131897	03/08/13 05:34	AC	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 22:33	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		10	131757	03/07/13 01:38	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 15:15	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 01:56	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:35	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 22:00		
					(End)	03/04/13 22:02		

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Client Sample ID: IW-5

Lab Sample ID: 720-48033-15

Date Collected: 02/26/13 14:00

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	131364	02/28/13 04:17	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 04:17	EYT	TAL SF

Client Sample ID: IW-6

Lab Sample ID: 720-48033-16

Date Collected: 02/26/13 13:45

Matrix: Water

Date Received: 02/27/13 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	131897	03/08/13 06:02	AC	TAL SF
Total/NA	Analysis	RSK-175		1	4216	02/28/13 22:46	TD	TAL LA
Total/NA	Prep	3510C			131608	03/04/13 09:10	MP	TAL SF
Total/NA	Analysis	8015B		2	131757	03/07/13 02:07	DH	TAL SF
Dissolved	Prep	3005A			131472	02/28/13 21:55	ASB	TAL SF
Dissolved	Analysis	6010B		1	131539	03/01/13 15:19	EFH	TAL SF
Total/NA	Prep	3010A			131466	02/28/13 21:03	ASB	TAL SF
Total/NA	Analysis	6010B		1	131604	03/02/13 02:00	SK	TAL SF
Total/NA	Analysis	SM 2540C		1	178959	03/03/13 23:37	CLB	TAL CHI
Total/NA	Analysis	376.1		1	179064		CLB	TAL CHI
					(Start)	03/04/13 22:02		
					(End)	03/04/13 22:05		
Total/NA	Analysis	300.0		1	131364	02/28/13 04:51	EYT	TAL SF
Total/NA	Analysis	300.0		1	131365	02/28/13 04:51	EYT	TAL SF

Laboratory References:

EMLab San = EMLab P&K - San Bruno, 1150 Bayhill Drive #100, San Bruno, CA 94066, TEL (866)888-6653

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Laboratory: EMLab P&K - San Bruno

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

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA - LAP	EMLAP		102856	07-01-14
AIHA - LAP	IHLAP		102856	07-01-14

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAP	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAP	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-11-13
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

Laboratory: TestAmerica Costa Mesa

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-14
Florida	NELAP	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAP	6	01948	06-30-13
New York	NELAP	2	11851	04-01-13
Oregon	NELAP	10	CA200013	07-19-13
Utah	NELAP	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-13

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
RSK-175	Dissolved Gases (GC)	RSK	TAL LA
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF
300.0	Anions, Ion Chromatography	MCAWW	TAL SF
376.1	Sulfide	MCAWW	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
HPC	General Sub Contract Method	NONE	EMLab San

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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:

EMLab San = EMLab P&K - San Bruno, 1150 Bayhill Drive #100, San Bruno, CA 94066, TEL (866)888-6653

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-48033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-48033-1	MW-2	Water	02/26/13 15:00	02/27/13 12:40
720-48033-2	MW-3	Water	02/26/13 14:30	02/27/13 12:40
720-48033-3	MW-4	Water	02/26/13 14:45	02/27/13 12:40
720-48033-4	MW-8	Water	02/26/13 15:15	02/27/13 12:40
720-48033-5	MW-9	Water	02/26/13 15:00	02/27/13 12:40
720-48033-6	MW-10	Water	02/26/13 13:30	02/27/13 12:40
720-48033-7	MW-11	Water	02/26/13 13:45	02/27/13 12:40
720-48033-8	MW-12	Water	02/26/13 14:20	02/27/13 12:40
720-48033-9	MW-13	Water	02/26/13 14:40	02/27/13 12:40
720-48033-10	MW-14	Water	02/26/13 13:30	02/27/13 12:40
720-48033-11	IW-1	Water	02/26/13 13:50	02/27/13 12:40
720-48033-12	IW-2	Water	02/26/13 15:00	02/27/13 12:40
720-48033-13	IW-3	Water	02/26/13 14:05	02/27/13 12:40
720-48033-14	IW-4	Water	02/26/13 14:15	02/27/13 12:40
720-48033-15	IW-5	Water	02/26/13 14:00	02/27/13 12:40
720-48033-16	IW-6	Water	02/26/13 13:45	02/27/13 12:40

EMLab P&K
A TestAmerica Company

Report for:

Ms. Dimple Sharma
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566

Regarding: Project: Blaine Tech Services; BTS# 130226-PC1
EML ID: 1031743

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Heterotrophic plate count: 03-05-2013

EMLab P&K
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: TestAmerica Pleasanton
C/O: Ms. Dimple Sharma
Re: Blaine Tech Services; BTS# 130226-PC1

Date of Receipt: 02-27-2013
Date of Report: 03-05-2013

HETEROTROPHIC PLATE COUNT REPORT

Location:	MW-2	MW-3	MW-4
Comments (see below)	A	A	A
Lab ID-Version‡:	4625595-1	4625596-1	4625597-1
Sample Type	Water sample	Water sample	Water sample
Method	Pour Plate: SM 9215B	Pour Plate: SM 9215B	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:10	Plate Count Agar 1:100	Plate Count Agar 1:10
Setup Time	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml	1 ml	1 ml
CFU/Reporting Unit	1,600	17,000	700
Read Time	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time.

Location:	MW-8	MW-9	MW-10
Comments (see below)	A	A	B
Lab ID-Version‡:	4625598-1	4625599-1	4625600-1
Sample Type	Water sample	Water sample	Water sample
Method	Pour Plate: SM 9215B	Pour Plate: SM 9215B	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:10	Plate Count Agar 1:10	Plate Count Agar 1:10
Setup Time	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml	1 ml	1 ml
CFU/Reporting Unit	630	1,300	1,100
Read Time	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time. B) The sample was analyzed past 8 hour holding time. Sample selected as a QC replicate. Analyzed as a QC duplicate.

Location:	MW-11	MW-12	MW-13
Comments (see below)	A	A	A
Lab ID-Version‡:	4625601-1	4625602-1	4625603-1
Sample Type	Water sample	Water sample	Water sample
Method	Pour Plate: SM 9215B	Pour Plate: SM 9215B	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:100	Plate Count Agar 1:10	Plate Count Agar 1:100
Setup Time	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml	1 ml	1 ml
CFU/Reporting Unit	2,600	420	11,000
Read Time	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time.

* Estimated result

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: TestAmerica Pleasanton
C/O: Ms. Dimple Sharma
Re: Blaine Tech Services; BTS# 130226-PC1

Date of Receipt: 02-27-2013
Date of Report: 03-05-2013

HETEROTROPHIC PLATE COUNT REPORT

Location:	MW-14	IW-1	IW-2
Comments (see below)	A	A	A
Lab ID-Version‡:	4625604-1	4625605-1	4625606-1
Sample Type	Water sample	Water sample	Water sample
Method	Pour Plate: SM 9215B	Pour Plate: SM 9215B	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:100	Plate Count Agar 1:100	Plate Count Agar 1:100
Setup Time	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml	1 ml	1 ml
CFU/Reporting Unit	4,800	15,000	27,000
Read Time	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time.

Location:	IW-3	IW-4	IW-5
Comments (see below)	A	A	A
Lab ID-Version‡:	4625607-1	4625608-1	4625609-1
Sample Type	Water sample	Water sample	Water sample
Method	Pour Plate: SM 9215B	Pour Plate: SM 9215B	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:100	Plate Count Agar 1:100	Plate Count Agar 1:10
Setup Time	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml	1 ml	1 ml
CFU/Reporting Unit	4,200	45,000	1,300
Read Time	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time.

Location:	IW-6
Comments (see below)	A
Lab ID-Version‡:	4625610-1
Sample Type	Water sample
Method	Pour Plate: SM 9215B
Dilution	Plate Count Agar 1:10
Setup Time	02/27/2013 at 12:02 PM
Incubation Info	48 hrs at 35 +- 0.5C
Reporting Unit	1 ml
CFU/Reporting Unit	630
Read Time	03/01/2013 at 12:15 PM

Comments: A) The sample was analyzed past 8 hour holding time.

* Estimated result

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB TA - SF DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION 14430

720-48033

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.

Attn: Hugh Devery hugh.devery@arcadis-us.com

770-428-9009

Low Detection levels requested

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT ARCADIS U.S., Inc.

SITE UPS

8400 Pardee Drive

Oakland, CA

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	Asst	C = COMPOSITE ALL CONTAINERS	TPH-Gro, BTEX, MTBE, Naphthalene (8260)	DRO	Methane	Nitrate as N & Sulfate	Sulfide	Total Diss. Iron (Field Filtered)	TDS	Magnesium	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	2-26-13	1500	W	~~14~~ 13			X	X	X	X	X	X	X	X				1
MW-3		1430	W	~~14~~ 13			X	X	X	X	X	X	X	X				2
MW-4		1445	W	~~14~~ 13			X	X	X	X	X	X	X	X				3
MW-8		1515	W	~~14~~ 13			X	X	X	X	X	X	X	X				4
MW-9		1500	W	12			X	X	X	X	X	X	X	X				5
MW-10		1330	W	~~14~~ 13			X	X	X	X	X	X	X	X				6
MW-11		1345	W	~~14~~ 13			X	X	X	X	X	X	X	X				7
MW-12		1420	W	~~14~~ 13			X	X	X	X	X	X	X	X				8
MW-13		1440	W	~~13~~ 12			X	X	X	X	X	X	X	X	* Filled 1/2 liter AGB for DRO			9
MW-14		1330	W	~~14~~ 13			X	X	X	X	X	X	X	X				10

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
			P. Cornish, B. Wacks, B. Parrill	Standard TAT

		DATE	TIME		DATE	TIME
RELEASED BY		2/26/13	1815	RECEIVED BY	2/26/13	1815
RELEASED BY	Sample custody BTS	2/27/13	1050	RECEIVED BY (TMF)	02/27/13	1050
RELEASED BY		02/27/13	1240	RECEIVED BY	2-27-13	1240

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	
				2.6° 2.4° 4.2° 3.3° 2.9°

3/13/2013

144302

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

LAB: TA - SF

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS 720-48033

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

3/13/2013

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	Asst	TPH-Gro, BTEX, MTBE, Naphthalene (8260)	DRO	Methane	Nitrate as N & Sulfate	Sulfide	Total Diss. Iron (Field Filtered)	TDS	Magnesium	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
IW-1	2-26-13	1350	W	14	13	X	X	X	X	X	X	X	X				11
IW-2		1500	W	14	13	X	X	X	X	X	X	X	X				12
IW-3		1405	W	14	13	X	X	X	X	X	X	X	X				13
IW-4		1415	W	14	13	X	X	X	X	X	X	X	X				14
IW-5		1400	W	14	13	X	X	X	X	X	X	X	X				15
IW-6		1345	W	14	13	X	X	X	X	X	X	X	X				16

SAMPLING COMPLETED DATE 2/26/13 TIME

SAMPLING PERFORMED BY P. Cornish, B. Parnell, B. Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

		DATE	TIME		DATE	TIME
RELEASED BY		2/26/13	1815	RECEIVED BY	2/26/13	1815
RELEASED BY	Sample Custodian BTS	2/27/13	1050	RECEIVED BY (TAF)	02/27/13	1050
RELEASED BY		02/27/13	1240	RECEIVED BY	2-27-13	1240

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

2.6e 2.4e 4.2e 3.3e 2.9e

720-48053

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

001031743

LAB: TA - SF DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL	250 mL	C = COMPOSITE ALL CONTAINERS	HPC Short Hold	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	2-26-13	1545	W	1			X				
MW-3		1430	W	1			X				
MW-4		1445	W	1			X				
MW-8		1515	W	1			X				
MW-9		1500	W	1	[illegible]		X				
MW-10		1330	W	1			X				
MW-11		1345	W	1			X				
MW-12		1420	W	1			X				
MW-13		1440	W	1			X				
MW-14		1330	W	1			X				

SAMPLING COMPLETED DATE 2-13-26 TIME 1515 SAMPLING PERFORMED BY B.Powell P.Cornish B.Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE 2/26/13	TIME 1735	RECEIVED BY	DATE 2/26/13	TIME 17:35
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

72c-48033

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

001031743

LAB TA - SF | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER

CHAIN OF CUSTODY BTS # 130226-PC1

CLIENT ARCADIS U.S., Inc.

SITE UPS
8400 Pardee Drive
Oakland, CA

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX (S= SOIL W=H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	EPC Short Hold							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
IW-1	2/26/13	1350	W	1	1x 125ml Poly		X										
IW-2	↓	1500	W	1	↓		X										
IW-3		1405	W	1			X										
IW-4		1415	W	1			X										
IW-5	↓	1400	W	1			X										
IW-6		1345	W	2	2		X										

SAMPLING COMPLETED | DATE 2/26/13 | TIME 1545 | SAMPLING PERFORMED BY P. Cornish, B. Powell, B. Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	2/26/13	1735	[signature]	2/26/13	17:35
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-48033-1

Login Number: 48033

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.	False	
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.	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.	False	
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: ARCADIS U.S. Inc

Job Number: 720-48033-1

Login Number: 48033
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 02/28/13 10:52 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	
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.	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: ARCADIS U.S. Inc

Job Number: 720-48033-1

Login Number: 48033
List Number: 1
Creator: Morales, Sergio

List Source: TestAmerica Costa Mesa
List Creation: 03/01/13 11:52 AM

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.	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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

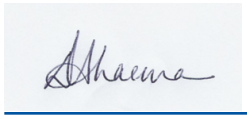
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-51107-1
Client Project/Site: UPS-Oakland

For:
ARCADIS U.S. Inc
1000 Cobb Place Blvd NW
Suite 500-A
Kennesaw, Georgia 30144

Attn: Ms. Jennifer LeBeau



Authorized for release by:
8/5/2013 4:33:42 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 720-51107-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51107-1

Comments
No additional comments.

Receipt
The samples were received on 7/22/2013 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2º C and 3.7º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: MW-4 (720-51107-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The laboratory control sample (LCS) for batch #141117 recovered outside acceptance limits for Acenatpthene, fluorene, phenanthene. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

Method 8270C SIM: Reanalysis of the following sample was performed outside of the analytical holding time: MW-10 (720-51107-3), MW-8 (720-51107-2).

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-4 — Lab Sample ID: 720-51107-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	86		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.11		0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.63	*	0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.30		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	1.9	*	0.11		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.24	*	0.11		ug/L	1		8270C SIM	Total/NA
Methane	8000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	1100		50		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	45		0.20		mg/L	1		6010B	Total/NA
Iron	3.6		0.20		mg/L	1		6010B	Dissolved
Manganese	5.7		0.020		mg/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 720-51107-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.4		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	0.30	H	0.11		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.11	H	0.11		ug/L	1		8270C SIM	Total/NA
Methane	5100		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	170		53		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	170		0.20		mg/L	1		6010B	Total/NA
Iron	2.9		0.20		mg/L	1		6010B	Dissolved
Manganese	1.8		0.020		mg/L	1		6010B	Dissolved
Sulfide	1.6		1.0		mg/L	1		SM 4500 S2 F	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5300		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 720-51107-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	7700		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	62		53		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	210		0.20		mg/L	1		6010B	Total/NA
Iron	7.7		0.20		mg/L	1		6010B	Dissolved
Manganese	6.6		0.020		mg/L	1		6010B	Dissolved
Sulfate	1.9		1.0		mg/L	1		300.0	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5200		50		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4
Date Collected: 07/22/13 13:40
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-1
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			07/26/13 01:17	1
Benzene	ND		0.50		ug/L			07/26/13 01:17	1
Ethylbenzene	ND		0.50		ug/L			07/26/13 01:17	1
Naphthalene	ND		1.0		ug/L			07/26/13 01:17	1
Toluene	ND		0.50		ug/L			07/26/13 01:17	1
Xylenes, Total	ND		1.0		ug/L			07/26/13 01:17	1
Gasoline Range Organics (GRO) -C5-C12	**86**		50		ug/L			07/26/13 01:17	1
1,2-DCA	ND		0.50		ug/L			07/26/13 01:17	1
EDB	ND		0.50		ug/L			07/26/13 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*		*07/26/13 01:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*		*07/26/13 01:17*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/26/13 01:17*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.11**		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Acenaphthene	**0.63**	*	0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Acenaphthylene	**0.30**		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Fluorene	**1.9**	*	0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Phenanthrene	**0.24**	*	0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Benzo[a]anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Chrysene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Benzo[a]pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*42*		*29 - 120*	*07/29/13 17:09*	*07/30/13 14:59*	*1*
Terphenyl-d14	*35*	*X*	*45 - 120*	*07/29/13 17:09*	*07/30/13 14:59*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8000**		5.0		ug/L			07/25/13 08:39	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		50		ug/L		07/24/13 09:57	07/25/13 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*07/24/13 09:57*	*07/25/13 17:02*	*1*
p-Terphenyl	*82*		*31 - 150*	*07/24/13 09:57*	*07/25/13 17:02*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-4
Date Collected: 07/22/13 13:40
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-1
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	45		0.20		mg/L		07/24/13 18:55	07/26/13 00:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.6		0.20		mg/L		07/23/13 11:43	07/24/13 13:15	1
Manganese	5.7		0.020		mg/L		07/23/13 11:43	07/24/13 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/22/13 21:48	1
Sulfate	ND		1.0		mg/L			07/22/13 21:48	1
Sulfide	ND		1.0		mg/L			07/25/13 22:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			07/24/13 11:00	1

Client Sample ID: MW-8

Date Collected: 07/22/13 14:25
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-2

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			07/26/13 02:34	1
Benzene	ND		0.50		ug/L			07/26/13 02:34	1
Ethylbenzene	ND		0.50		ug/L			07/26/13 02:34	1
Naphthalene	**2.7**		1.0		ug/L			07/26/13 02:34	1
Toluene	ND		0.50		ug/L			07/26/13 02:34	1
Xylenes, Total	ND		1.0		ug/L			07/26/13 02:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/26/13 02:34	1
1,2-DCA	ND		0.50		ug/L			07/26/13 02:34	1
EDB	ND		0.50		ug/L			07/26/13 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*67 - 130*		*07/26/13 02:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*07/26/13 02:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*07/26/13 02:34*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.4**		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Acenaphthene	ND	H	0.11		ug/L		08/04/13 09:40	08/04/13 23:06	1
Acenaphthylene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Fluorene	**0.30**	**H**	0.11		ug/L		08/04/13 09:40	08/04/13 23:06	1
Phenanthrene	**0.11**	**H**	0.11		ug/L		08/04/13 09:40	08/04/13 23:06	1
Anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Benzo[a]anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Chrysene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Benzo[a]pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Fluoranthene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Pyrene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/29/13 17:09	07/30/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*29 - 120*	*07/29/13 17:09*	*07/30/13 15:22*	*1*
2-Fluorobiphenyl	*76*		*29 - 120*	*08/04/13 09:40*	*08/04/13 23:06*	*1*
Terphenyl-d14	*63*		*45 - 120*	*07/29/13 17:09*	*07/30/13 15:22*	*1*
Terphenyl-d14	*67*		*45 - 120*	*08/04/13 09:40*	*08/04/13 23:06*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5100**		5.0		ug/L			07/25/13 08:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**		53		ug/L		07/24/13 09:57	07/25/13 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0005*		*0 - 5*	*07/24/13 09:57*	*07/25/13 16:37*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-8
Date Collected: 07/22/13 14:25
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-2
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*31 - 150*	*07/24/13 09:57*	*07/25/13 16:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**170**		0.20		mg/L		07/24/13 18:55	07/26/13 00:45	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.9**		0.20		mg/L		07/23/13 11:43	07/24/13 13:28	1
Manganese	**1.8**		0.020		mg/L		07/23/13 11:43	07/24/13 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/22/13 22:57	1
Sulfate	ND		1.0		mg/L			07/22/13 22:57	1
Sulfide	**1.6**		1.0		mg/L			07/25/13 22:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**5300**		50		mg/L			07/24/13 11:00	1

Client Sample ID: MW-10
Date Collected: 07/22/13 11:35
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-3
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			07/26/13 03:00	1
Benzene	ND		0.50		ug/L			07/26/13 03:00	1
Ethylbenzene	ND		0.50		ug/L			07/26/13 03:00	1
Naphthalene	ND		1.0		ug/L			07/26/13 03:00	1
Toluene	ND		0.50		ug/L			07/26/13 03:00	1
Xylenes, Total	ND		1.0		ug/L			07/26/13 03:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/26/13 03:00	1
1,2-DCA	ND		0.50		ug/L			07/26/13 03:00	1
EDB	ND		0.50		ug/L			07/26/13 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*07/26/13 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 138*		*07/26/13 03:00*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/26/13 03:00*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Acenaphthene	ND	H	0.10		ug/L		08/04/13 09:40	08/04/13 23:27	1
Acenaphthylene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Fluorene	ND	H	0.10		ug/L		08/04/13 09:40	08/04/13 23:27	1
Phenanthrene	ND	H	0.10		ug/L		08/04/13 09:40	08/04/13 23:27	1
Anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Benzo[a]anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Chrysene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Benzo[a]pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*29 - 120*	*07/29/13 17:09*	*07/30/13 15:45*	*1*
2-Fluorobiphenyl	*68*		*29 - 120*	*08/04/13 09:40*	*08/04/13 23:27*	*1*
Terphenyl-d14	*64*		*45 - 120*	*07/29/13 17:09*	*07/30/13 15:45*	*1*
Terphenyl-d14	*68*		*45 - 120*	*08/04/13 09:40*	*08/04/13 23:27*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**7700**		5.0		ug/L			07/25/13 08:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**		53		ug/L		07/24/13 09:57	07/25/13 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 5*	*07/24/13 09:57*	*07/25/13 16:37*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-10
Date Collected: 07/22/13 11:35
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-3
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*91*		*31 - 150*	*07/24/13 09:57*	*07/25/13 16:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**210**		0.20		mg/L		07/24/13 18:55	07/26/13 00:59	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.7**		0.20		mg/L		07/23/13 11:43	07/24/13 13:33	1
Manganese	**6.6**		0.020		mg/L		07/23/13 11:43	07/24/13 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/22/13 23:31	1
Sulfate	**1.9**		1.0		mg/L			07/22/13 23:31	1
Sulfide	ND		1.0		mg/L			07/25/13 22:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**5200**		50		mg/L			07/24/13 11:00	1

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

Lab Sample ID: MB 720-140901/4
Matrix: Water
Analysis Batch: 140901

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			07/25/13 17:30	1
Benzene	ND		0.50		ug/L			07/25/13 17:30	1
Ethylbenzene	ND		0.50		ug/L			07/25/13 17:30	1
Naphthalene	ND		1.0		ug/L			07/25/13 17:30	1
Toluene	ND		0.50		ug/L			07/25/13 17:30	1
Xylenes, Total	ND		1.0		ug/L			07/25/13 17:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/25/13 17:30	1
1,2-DCA	ND		0.50		ug/L			07/25/13 17:30	1
EDB	ND		0.50		ug/L			07/25/13 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*07/25/13 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 138*		*07/25/13 17:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/25/13 17:30*	*1*

Lab Sample ID: LCS 720-140901/5
Matrix: Water
Analysis Batch: 140901

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	26.6		ug/L		106	62 - 130
Benzene	25.0	24.2		ug/L		97	79 - 130
Ethylbenzene	25.0	25.9		ug/L		104	80 - 120
Naphthalene	25.0	25.8		ug/L		103	70 - 130
Toluene	25.0	25.2		ug/L		101	78 - 120
m-Xylene & p-Xylene	50.0	56.5		ug/L		113	70 - 142
o-Xylene	25.0	28.1		ug/L		112	70 - 130
1,2-DCA	25.0	24.7		ug/L		99	61 - 132
EDB	25.0	28.2		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCS 720-140901/7
Matrix: Water
Analysis Batch: 140901

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	525		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*115*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*

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

Lab Sample ID: LCS 720-140901/7
Matrix: Water
Analysis Batch: 140901

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-140901/6
Matrix: Water
Analysis Batch: 140901

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	27.2		ug/L		109	62 - 130	2	20
Benzene			25.0	24.2		ug/L		97	79 - 130	0	20
Ethylbenzene			25.0	26.0		ug/L		104	80 - 120	0	20
Naphthalene			25.0	27.1		ug/L		108	70 - 130	5	20
Toluene			25.0	25.4		ug/L		102	78 - 120	1	20
m-Xylene & p-Xylene			50.0	56.3		ug/L		113	70 - 142	1	20
o-Xylene			25.0	28.0		ug/L		112	70 - 130	0	20
1,2-DCA			25.0	25.1		ug/L		101	61 - 132	2	20
EDB			25.0	28.5		ug/L		114	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-140901/8
Matrix: Water
Analysis Batch: 140901

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	528		ug/L		106	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*113*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 720-51107-1 MS
Matrix: Water
Analysis Batch: 140901

Client Sample ID: MW-4
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	26.3		ug/L		105	60 - 138
Benzene	ND		25.0	24.2		ug/L		97	60 - 140
Ethylbenzene	ND		25.0	26.2		ug/L		105	60 - 140
Naphthalene	ND		25.0	30.0		ug/L		117	56 - 140
Toluene	ND		25.0	25.6		ug/L		102	60 - 140
m-Xylene & p-Xylene	ND		50.0	56.6		ug/L		113	60 - 140
o-Xylene	ND		25.0	28.1		ug/L		112	60 - 140
1,2-DCA	ND		25.0	24.6		ug/L		99	60 - 140

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

Lab Sample ID: 720-51107-1 MS
Matrix: Water
Analysis Batch: 140901

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
EDB	ND		25.0	27.2		ug/L		109	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 138*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-51107-1 MSD
Matrix: Water
Analysis Batch: 140901

Client Sample ID: MW-4
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	27.3		ug/L		109	60 - 138	4	20
Benzene	ND		25.0	24.6		ug/L		98	60 - 140	2	20
Ethylbenzene	ND		25.0	26.3		ug/L		105	60 - 140	1	20
Naphthalene	ND		25.0	33.0		ug/L		129	56 - 140	9	20
Toluene	ND		25.0	25.4		ug/L		102	60 - 140	1	20
m-Xylene & p-Xylene	ND		50.0	57.1		ug/L		114	60 - 140	1	20
o-Xylene	ND		25.0	28.5		ug/L		114	60 - 140	1	20
1,2-DCA	ND		25.0	25.1		ug/L		100	60 - 140	2	20
EDB	ND		25.0	28.1		ug/L		113	60 - 140	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141117/1-A
Matrix: Water
Analysis Batch: 141170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Acenaphthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Acenaphthylene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Fluorene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Phenanthrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Benzo[a]anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Chrysene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Benzo[a]pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-141117/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 141170 — **Prep Batch: 141117**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Pyrene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/29/13 17:09	07/30/13 14:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*29 - 120*	*07/29/13 17:09*	*07/30/13 14:36*	*1*
Terphenyl-d14	*74*		*45 - 120*	*07/29/13 17:09*	*07/30/13 14:36*	*1*

Lab Sample ID: LCS 720-141117/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 141170 — **Prep Batch: 141117**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	3.84		ug/L		38	29 - 120
Acenaphthene	10.0	3.98	*	ug/L		40	42 - 120
Acenaphthylene	10.0	4.14		ug/L		41	39 - 120
Fluorene	10.0	4.24	*	ug/L		42	45 - 120
Phenanthrene	10.0	4.17	*	ug/L		42	46 - 120
Anthracene	10.0	5.54		ug/L		55	53 - 120
Benzo[a]anthracene	10.0	6.78		ug/L		68	48 - 120
Chrysene	10.0	5.93		ug/L		59	47 - 120
Benzo[a]pyrene	10.0	6.34		ug/L		63	43 - 120
Benzo[b]fluoranthene	10.0	6.51		ug/L		65	42 - 120
Benzo[k]fluoranthene	10.0	6.39		ug/L		64	42 - 120
Benzo[g,h,i]perylene	10.0	6.00		ug/L		60	24 - 120
Indeno[1,2,3-cd]pyrene	10.0	6.11		ug/L		61	25 - 120
Fluoranthene	10.0	5.93		ug/L		59	57 - 120
Pyrene	10.0	5.43		ug/L		54	47 - 120
Dibenz(a,h)anthracene	10.0	6.17		ug/L		62	21 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*42*		*29 - 120*
Terphenyl-d14	*69*		*45 - 120*

Lab Sample ID: LCSD 720-141117/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 141170 — **Prep Batch: 141117**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10.0	4.58		ug/L		46	29 - 120	17	35
Acenaphthene	10.0	4.95		ug/L		50	42 - 120	22	35
Acenaphthylene	10.0	5.11		ug/L		51	39 - 120	21	35
Fluorene	10.0	5.26		ug/L		53	45 - 120	21	35
Phenanthrene	10.0	5.15		ug/L		51	46 - 120	21	35
Anthracene	10.0	6.62		ug/L		66	53 - 120	18	35
Benzo[a]anthracene	10.0	6.86		ug/L		69	48 - 120	1	35
Chrysene	10.0	6.01		ug/L		60	47 - 120	1	35
Benzo[a]pyrene	10.0	6.80		ug/L		68	43 - 120	7	35

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-141117/3-A
Matrix: Water
Analysis Batch: 141170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141117

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene			10.0	6.80		ug/L		68	42 - 120	4	35
Benzo[k]fluoranthene			10.0	6.96		ug/L		70	42 - 120	9	35
Benzo[g,h,i]perylene			10.0	6.73		ug/L		67	24 - 120	12	35
Indeno[1,2,3-cd]pyrene			10.0	6.92		ug/L		69	25 - 120	12	35
Fluoranthene			10.0	6.71		ug/L		67	57 - 120	12	35
Pyrene			10.0	5.95		ug/L		60	47 - 120	9	35
Dibenz(a,h)anthracene			10.0	7.07		ug/L		71	21 - 120	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*29 - 120*
Terphenyl-d14	*72*		*45 - 120*

Lab Sample ID: MB 720-141517/1-A
Matrix: Water
Analysis Batch: 141529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Acenaphthene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Acenaphthylene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Fluorene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Phenanthrene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Anthracene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Benzo[a]anthracene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Chrysene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Benzo[a]pyrene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Fluoranthene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Pyrene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/04/13 09:40	08/04/13 15:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*29 - 120*	*08/04/13 09:40*	*08/04/13 15:33*	*1*
Terphenyl-d14	*90*		*45 - 120*	*08/04/13 09:40*	*08/04/13 15:33*	*1*

Lab Sample ID: LCS 720-141517/2-A
Matrix: Water
Analysis Batch: 141529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141517

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene			10.0	6.99		ug/L		70	29 - 120
Acenaphthene			10.0	7.41		ug/L		74	42 - 120
Acenaphthylene			10.0	7.39		ug/L		74	39 - 120
Fluorene			10.0	7.37		ug/L		74	45 - 120
Phenanthrene			10.0	7.47		ug/L		75	46 - 120

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-141517/2-A
Matrix: Water
Analysis Batch: 141529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141517

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Anthracene			10.0	8.36		ug/L		84	53 - 120		
Benzo[a]anthracene			10.0	7.24		ug/L		72	48 - 120		
Chrysene			10.0	7.12		ug/L		71	47 - 120		
Benzo[a]pyrene			10.0	6.57		ug/L		66	43 - 120		
Benzo[b]fluoranthene			10.0	6.95		ug/L		70	42 - 120		
Benzo[k]fluoranthene			10.0	6.27		ug/L		63	42 - 120		
Benzo[g,h,i]perylene			10.0	5.52		ug/L		55	24 - 120		
Indeno[1,2,3-cd]pyrene			10.0	5.61		ug/L		56	25 - 120		
Fluoranthene			10.0	7.75		ug/L		77	57 - 120		
Pyrene			10.0	7.38		ug/L		74	47 - 120		
Dibenz(a,h)anthracene			10.0	5.74		ug/L		57	21 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*29 - 120*
Terphenyl-d14	*83*		*45 - 120*

Lab Sample ID: LCSD 720-141517/3-A
Matrix: Water
Analysis Batch: 141529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141517

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			10.0	6.31		ug/L		63	29 - 120	10	35
Acenaphthene			10.0	6.76		ug/L		68	42 - 120	9	35
Acenaphthylene			10.0	6.75		ug/L		68	39 - 120	9	35
Fluorene			10.0	6.80		ug/L		68	45 - 120	8	35
Phenanthrene			10.0	7.05		ug/L		71	46 - 120	6	35
Anthracene			10.0	8.01		ug/L		80	53 - 120	4	35
Benzo[a]anthracene			10.0	7.52		ug/L		75	48 - 120	4	35
Chrysene			10.0	7.44		ug/L		74	47 - 120	4	35
Benzo[a]pyrene			10.0	7.24		ug/L		72	43 - 120	10	35
Benzo[b]fluoranthene			10.0	7.73		ug/L		77	42 - 120	11	35
Benzo[k]fluoranthene			10.0	6.93		ug/L		69	42 - 120	10	35
Benzo[g,h,i]perylene			10.0	6.33		ug/L		63	24 - 120	14	35
Indeno[1,2,3-cd]pyrene			10.0	6.33		ug/L		63	25 - 120	12	35
Fluoranthene			10.0	7.65		ug/L		77	57 - 120	1	35
Pyrene			10.0	7.36		ug/L		74	47 - 120	0	35
Dibenz(a,h)anthracene			10.0	6.57		ug/L		66	21 - 120	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*29 - 120*
Terphenyl-d14	*88*		*45 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-184295/6
Matrix: Water
Analysis Batch: 184295

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0		ug/L			07/25/13 08:10	1

Lab Sample ID: LCS 280-184295/4
Matrix: Water
Analysis Batch: 184295

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	146	149		ug/L		102	75 - 125

Lab Sample ID: LCSD 280-184295/5
Matrix: Water
Analysis Batch: 184295

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
Methane	146	162		ug/L		111	75 - 125	9	20

Lab Sample ID: 720-51107-1 DU
Matrix: Water
Analysis Batch: 184295

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Methane	8000		7970		ug/L		0.1	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140775/1-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/24/13 09:57	07/25/13 18:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 5*	*07/24/13 09:57*	*07/25/13 18:15*	*1*
p-Terphenyl	*97*		*31 - 150*	*07/24/13 09:57*	*07/25/13 18:15*	*1*

Lab Sample ID: LCS 720-140775/2-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1090		ug/L		44	32 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*31 - 150*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-140775/3-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1050		ug/L		42	32 - 119	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*98*		*31 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-140829/1-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20		mg/L		07/24/13 18:55	07/25/13 23:43	1

Lab Sample ID: LCS 720-140829/2-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140829

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Magnesium			10.0	11.3		mg/L		113	80 - 120		

Lab Sample ID: LCSD 720-140829/3-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140829

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium			10.0	11.5		mg/L		115	80 - 120	2	20

Lab Sample ID: MB 720-140702/1-A
Matrix: Water
Analysis Batch: 140796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 140702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20		mg/L		07/23/13 11:37	07/24/13 11:41	1
Manganese	ND		0.020		mg/L		07/23/13 11:37	07/24/13 11:41	1

Lab Sample ID: LCS 720-140702/2-A
Matrix: Water
Analysis Batch: 140796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140702

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	9.97		mg/L		100	80 - 120		
Manganese			1.00	0.930		mg/L		93	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-140702/3-A
Matrix: Water
Analysis Batch: 140796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 140702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	9.83		mg/L		98	80 - 120	1	20
Manganese	1.00	0.915		mg/L		92	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-140597/5
Matrix: Water
Analysis Batch: 140597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			07/22/13 11:11	1

Lab Sample ID: LCS 720-140597/6
Matrix: Water
Analysis Batch: 140597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: 720-51107-3 MS
Matrix: Water
Analysis Batch: 140597

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
Sulfate	ND		100	99.1		mg/L		99	80 - 120

Lab Sample ID: 720-51107-3 MSD
Matrix: Water
Analysis Batch: 140597

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
Sulfate	ND		100	99.8		mg/L		100	80 - 120	1	20

Lab Sample ID: MB 720-140598/5
Matrix: Water
Analysis Batch: 140598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/22/13 11:11	1

Lab Sample ID: LCS 720-140598/6
Matrix: Water
Analysis Batch: 140598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.19		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 720-51107-3 MS — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		22.6	22.1		mg/L		98	80 - 120		

Lab Sample ID: 720-51107-3 MSD — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		22.6	22.2		mg/L		98	80 - 120	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 720-140782/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140782

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/24/13 11:00	1

Lab Sample ID: LCS 720-140782/1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	964		mg/L		96	85 - 115

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-194912/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 194912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			07/25/13 21:20	1

Lab Sample ID: LCS 500-194912/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 194912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.70	3.87		mg/L		105	80 - 120

GC/MS VOA

Analysis Batch: 140901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-51107-1 MS	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-51107-1 MSD	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-51107-2	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-51107-3	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140901/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140901/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140901/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140901/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-140901/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 141117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	3510C	
720-51107-2	MW-8	Total/NA	Water	3510C	
720-51107-3	MW-10	Total/NA	Water	3510C	
LCS 720-141117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-141117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-141117/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 141170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	8270C SIM	141117
720-51107-2	MW-8	Total/NA	Water	8270C SIM	141117
720-51107-3	MW-10	Total/NA	Water	8270C SIM	141117
LCS 720-141117/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	141117
LCSD 720-141117/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	141117
MB 720-141117/1-A	Method Blank	Total/NA	Water	8270C SIM	141117

Prep Batch: 141517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-2	MW-8	Total/NA	Water	3510C	
720-51107-3	MW-10	Total/NA	Water	3510C	
LCS 720-141517/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-141517/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-141517/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 141529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-2	MW-8	Total/NA	Water	8270C SIM	141517
720-51107-3	MW-10	Total/NA	Water	8270C SIM	141517

GC/MS Semi VOA (Continued)

Analysis Batch: 141529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141517/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	141517
LCSD 720-141517/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	141517
MB 720-141517/1-A	Method Blank	Total/NA	Water	8270C SIM	141517

GC VOA

Analysis Batch: 184295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	RSK-175	
720-51107-1 DU	MW-4	Total/NA	Water	RSK-175	
720-51107-2	MW-8	Total/NA	Water	RSK-175	
720-51107-3	MW-10	Total/NA	Water	RSK-175	
LCS 280-184295/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-184295/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 280-184295/6	Method Blank	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 140775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Silica Gel Cleanup	Water	3510C SGC	
720-51107-2	MW-8	Silica Gel Cleanup	Water	3510C SGC	
720-51107-3	MW-10	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-140775/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-140775/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-140775/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 140850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Silica Gel Cleanup	Water	8015B	140775
720-51107-2	MW-8	Silica Gel Cleanup	Water	8015B	140775
LCS 720-140775/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	140775
LCSD 720-140775/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	140775
MB 720-140775/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	140775

Analysis Batch: 140851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-3	MW-10	Silica Gel Cleanup	Water	8015B	140775

Metals

Prep Batch: 140702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Dissolved	Water	3005A	
720-51107-2	MW-8	Dissolved	Water	3005A	
720-51107-3	MW-10	Dissolved	Water	3005A	
LCS 720-140702/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-140702/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-140702/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 140796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Dissolved	Water	6010B	140702
720-51107-2	MW-8	Dissolved	Water	6010B	140702
720-51107-3	MW-10	Dissolved	Water	6010B	140702
LCS 720-140702/2-A	Lab Control Sample	Total Recoverable	Water	6010B	140702
LCSD 720-140702/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	140702
MB 720-140702/1-A	Method Blank	Total Recoverable	Water	6010B	140702

Prep Batch: 140829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	3010A	
720-51107-2	MW-8	Total/NA	Water	3010A	
720-51107-3	MW-10	Total/NA	Water	3010A	
LCS 720-140829/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-140829/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-140829/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 140953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	6010B	140829
720-51107-2	MW-8	Total/NA	Water	6010B	140829
720-51107-3	MW-10	Total/NA	Water	6010B	140829
LCS 720-140829/2-A	Lab Control Sample	Total/NA	Water	6010B	140829
LCSD 720-140829/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	140829
MB 720-140829/1-A	Method Blank	Total/NA	Water	6010B	140829

General Chemistry

Analysis Batch: 140597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	300.0	
720-51107-2	MW-8	Total/NA	Water	300.0	
720-51107-3	MW-10	Total/NA	Water	300.0	
720-51107-3 MS	MW-10	Total/NA	Water	300.0	
720-51107-3 MSD	MW-10	Total/NA	Water	300.0	
LCS 720-140597/6	Lab Control Sample	Total/NA	Water	300.0	
MB 720-140597/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 140598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	300.0	
720-51107-2	MW-8	Total/NA	Water	300.0	
720-51107-3	MW-10	Total/NA	Water	300.0	
720-51107-3 MS	MW-10	Total/NA	Water	300.0	
720-51107-3 MSD	MW-10	Total/NA	Water	300.0	
LCS 720-140598/6	Lab Control Sample	Total/NA	Water	300.0	
MB 720-140598/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 140782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 140782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-2	MW-8	Total/NA	Water	SM 2540C	
720-51107-3	MW-10	Total/NA	Water	SM 2540C	
LCS 720-140782/1	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 720-140782/2	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 194912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51107-1	MW-4	Total/NA	Water	SM 4500 S2 F	
720-51107-2	MW-8	Total/NA	Water	SM 4500 S2 F	
720-51107-3	MW-10	Total/NA	Water	SM 4500 S2 F	
LCS 500-194912/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
MB 500-194912/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-4

Lab Sample ID: 720-51107-1

Date Collected: 07/22/13 13:40

Matrix: Water

Date Received: 07/22/13 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	140901	07/26/13 01:17	LPL	TAL PLS
Total/NA	Prep	3510C			141117	07/29/13 17:09	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	141170	07/30/13 14:59	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184295	07/25/13 08:39	BMG	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140850	07/25/13 17:02	DCH	TAL PLS
Dissolved	Prep	3005A			140702	07/23/13 11:43	ECT	TAL PLS
Dissolved	Analysis	6010B		1	140796	07/24/13 13:15	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 00:40	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	194912		CLB	TAL CHI
					(Start)	07/25/13 22:10		
					(End)	07/25/13 22:12		
Total/NA	Analysis	300.0		1	140597	07/22/13 21:48	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140598	07/22/13 21:48	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140782	07/24/13 11:00	NVP	TAL PLS

Client Sample ID: MW-8

Lab Sample ID: 720-51107-2

Date Collected: 07/22/13 14:25

Matrix: Water

Date Received: 07/22/13 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	140901	07/26/13 02:34	LPL	TAL PLS
Total/NA	Prep	3510C			141117	07/29/13 17:09	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	141170	07/30/13 15:22	MQL	TAL PLS
Total/NA	Prep	3510C			141517	08/04/13 09:40	JRM	TAL PLS
Total/NA	Analysis	8270C SIM		1	141529	08/04/13 23:06	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184295	07/25/13 08:48	BMG	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140850	07/25/13 16:37	DCH	TAL PLS
Dissolved	Prep	3005A			140702	07/23/13 11:43	ECT	TAL PLS
Dissolved	Analysis	6010B		1	140796	07/24/13 13:28	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 00:45	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	194912		CLB	TAL CHI
					(Start)	07/25/13 22:12		
					(End)	07/25/13 22:15		
Total/NA	Analysis	300.0		1	140597	07/22/13 22:57	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140598	07/22/13 22:57	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140782	07/24/13 11:00	NVP	TAL PLS

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Client Sample ID: MW-10

Date Collected: 07/22/13 11:35
Date Received: 07/22/13 18:00

Lab Sample ID: 720-51107-3

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	140901	07/26/13 03:00	LPL	TAL PLS
Total/NA	Prep	3510C			141117	07/29/13 17:09	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	141170	07/30/13 15:45	MQL	TAL PLS
Total/NA	Prep	3510C			141517	08/04/13 09:40	JRM	TAL PLS
Total/NA	Analysis	8270C SIM		1	141529	08/04/13 23:27	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184295	07/25/13 08:53	BMG	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140851	07/25/13 16:37	DCH	TAL PLS
Dissolved	Prep	3005A			140702	07/23/13 11:43	ECT	TAL PLS
Dissolved	Analysis	6010B		1	140796	07/24/13 13:33	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 00:59	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	194912		CLB	TAL CHI
					(Start)	07/25/13 22:15		
					(End)	07/25/13 22:17		
Total/NA	Analysis	300.0		1	140597	07/22/13 23:31	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140598	07/22/13 23:31	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140782	07/24/13 11:00	NVP	TAL PLS

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-13
A2LA	ISO/IEC 17025		2907.01	10-31-13
Alabama	State Program	4	40730	09-30-13 *
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	09-01-13
California	ELAP	9	2513	08-31-14 *
Colorado	State Program	8	N/A	09-30-13
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	02096	09-01-13 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Denver (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Nevada	State Program	9	CO0026	09-01-13
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-13
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	09-01-13 *
South Carolina	State Program	4	72002	09-01-13 *
Texas	NELAP	6	T104704183-08-TX	09-30-13
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	09-01-13
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	09-01-13 *
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-13
Wyoming (UST)	A2LA	8		10-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
RSK-175	Dissolved Gases (GC)	RSK	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PLS
SM 4500 S2 F	Sulfide, Total	SM	TAL CHI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51107-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51107-1	MW-4	Water	07/22/13 13:40	07/22/13 18:00
720-51107-2	MW-8	Water	07/22/13 14:25	07/22/13 18:00
720-51107-3	MW-10	Water	07/22/13 11:35	07/22/13 18:00

BLAINE
TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130722-DW1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

LAB: TA - SF 147387 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER 720-51107

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH-Gro, BTEX, MTBE, Naphthalene, 1,2-DCS, EDB (8260)	DRO w/ SGC	Methane	Nitrate, Sulfate, TDS (Short holds)	Sulfide	Total Diss. Iron, Manganese (Field Filtered)	Magnesium	PAH's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-4	7/22/13	1340	W	13	mix		X	X	X	X	X	X	X	X				
MW-8		1425					X	X	X	X	X	X	X	X				
MW-10		1135					X	X	X	X	X	X	X	X				

720-51107 Chain of Custody

SAMPLING COMPLETED: DATE 7/22/13 TIME 1425
SAMPLING PERFORMED BY: Daniel Allen

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY		DATE 7/22/13	TIME 1630	RECEIVED BY		DATE 7/22/13	TIME 1630
RELEASED BY	Scientific Custodian BTS	DATE 7/22/13	TIME 1700	RECEIVED BY	TAP	DATE 07/22/13	TIME 1700
RELEASED BY		DATE 07/22/13	TIME 1800	RECEIVED BY		DATE 7/22/13	TIME 1800
SHIPPED VIA		DATE SENT	TIME SENT	COOLER #			

1.2°C, 3.7°C

8/5/2013

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-51107-1

Login Number: 51107
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.	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: ARCADIS U.S. Inc

Job Number: 720-51107-1

Login Number: 51107
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 07/24/13 10:12 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	
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.	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: ARCADIS U.S. Inc

Job Number: 720-51107-1

Login Number: 51107
List Number: 1
Creator: Broander, Laura L

List Source: TestAmerica Denver
List Creation: 07/24/13 03:59 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?	False	FIELD LEFT BLANK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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

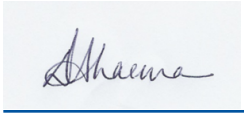
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-51143-1
Client Project/Site: UPS-Oakland

For:
ARCADIS U.S. Inc
1000 Cobb Place Blvd NW
Suite 500-A
Kennesaw, Georgia 30144

Attn: Ms. Jennifer LeBeau



Authorized for release by:
8/5/2013 3:15:15 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

Table of Contents

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 720-51143-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51143-1

Comments
No additional comments.

Receipt
The samples were received on 7/23/2013 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3º C and 3.6º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: IW-5 (720-51143-9), IW-6 (720-51143-2), MW-3 (720-51143-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: IW-5 (720-51143-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: The Diesel Range Organics (DRO) concentration reported for the following sample is due to the presence of discrete peaks: IW-3 (720-51143-3).

Method 8015B: Capric acid surrogate recovery for the following sample was outside control limits: IW-2 (720-51143-4), MW-3 (720-51143-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: IW-5 (720-51143-9).

No other analytical or quality issues were noted.

Metals
Method 3005A: The following sample submitted for metals analysis was received with insufficient preservation (pH >2): 51143-3,4, and 6. Added 1mL HNO3 on 07/24/13. ref #: 140837

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 140839 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 6010B: The serial dilution performed for the following sample associated with analytical batch 140839 was outside control limits: (720-51143-2 SD)

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-14 — Lab Sample ID: 720-51143-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.13		0.11		ug/L	1		8270C SIM	Total/NA
Methane	6000		5.0		ug/L	1		RSK-175	Total/NA

Client Sample ID: IW-6 — Lab Sample ID: 720-51143-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	9.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	110		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.5		0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.40		0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthylene	0.35		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	1.8		0.11		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.83		0.11		ug/L	1		8270C SIM	Total/NA
Methane	8200		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	970		52		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	410		1.0		mg/L	5		6010B	Total/NA
Iron	45		0.20		mg/L	1		6010B	Dissolved
Manganese	4.4		0.020		mg/L	1		6010B	Dissolved
Sulfide	6.2		1.0		mg/L	1		SM 4500 S2 F	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	10000		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-3 — Lab Sample ID: 720-51143-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	150		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	51		0.53		ug/L	5		8270C SIM	Total/NA
Acenaphthene	2.2		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	1.2		0.11		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.70		0.11		ug/L	1		8270C SIM	Total/NA
Methane	4400		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	95		52		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	170		1.0		mg/L	5		6010B	Total/NA
Iron	15		0.20		mg/L	1		6010B	Dissolved
Manganese	3.1		0.020		mg/L	1		6010B	Dissolved
Sulfide	5.4		1.0		mg/L	1		SM 4500 S2 F	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2800		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-2 — Lab Sample ID: 720-51143-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	430		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Naphthalene	150		1.1		ug/L	10		8270C SIM	Total/NA
Acenaphthene	87		1.1		ug/L	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IW-2 (Continued) — Lab Sample ID: 720-51143-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1.1		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	64		1.1		ug/L	10		8270C SIM	Total/NA
Phenanthrene	58		1.1		ug/L	10		8270C SIM	Total/NA
Anthracene	4.6		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[a]anthracene	0.24		0.11		ug/L	1		8270C SIM	Total/NA
Chrysene	0.21		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.11		0.11		ug/L	1		8270C SIM	Total/NA
Fluoranthene	5.0		0.11		ug/L	1		8270C SIM	Total/NA
Pyrene	2.0		0.11		ug/L	1		8270C SIM	Total/NA
Methane	3900		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	3400		54		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	180		1.0		mg/L	5		6010B	Total/NA
Iron	13		0.20		mg/L	1		6010B	Dissolved
Manganese	3.0		0.020		mg/L	1		6010B	Dissolved
Sulfide	3.5		1.0		mg/L	1		SM 4500 S2 F	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	3700		20		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-51143-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	290		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.54		0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthene	1.5		0.11		ug/L	1		8270C SIM	Total/NA
Acenaphthylene	1.2		0.11		ug/L	1		8270C SIM	Total/NA
Fluorene	5.5		0.11		ug/L	1		8270C SIM	Total/NA
Phenanthrene	4.9		0.11		ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.16		0.11		ug/L	1		8270C SIM	Total/NA
Pyrene	0.15		0.11		ug/L	1		8270C SIM	Total/NA
Methane	8200		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	7000		110		ug/L	2		8015B	Silica Gel Cleanup
Magnesium	47		0.20		mg/L	1		6010B	Total/NA
Iron	4.7		0.20		mg/L	1		6010B	Dissolved
Manganese	4.4		0.020		mg/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	720		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-51143-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.31		0.11		ug/L	1		8270C SIM	Total/NA
Chrysene	0.23		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[a]pyrene	0.17		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	0.28		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	0.27		0.11		ug/L	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	0.11		0.11		ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 720-51143-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.20		0.11		ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.15		0.11		ug/L	1		8270C SIM	Total/NA
Pyrene	0.13		0.11		ug/L	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	0.15		0.11		ug/L	1		8270C SIM	Total/NA
Methane	5400		5.0		ug/L	1		RSK-175	Total/NA
Magnesium	390		1.0		mg/L	5		6010B	Total/NA
Iron	11		0.20		mg/L	1		6010B	Dissolved
Manganese	2.8		0.020		mg/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	16000		100		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 720-51143-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	7000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	78		53		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	180		1.0		mg/L	5		6010B	Total/NA
Iron	5.9		0.20		mg/L	1		6010B	Dissolved
Manganese	1.2		0.020		mg/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5700		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 720-51143-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.18		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.24		0.10		ug/L	1		8270C SIM	Total/NA
Methane	13000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	88		53		ug/L	1		8015B	Silica Gel Cleanup
Magnesium	81		0.20		mg/L	1		6010B	Total/NA
Iron	3.2		0.20		mg/L	1		6010B	Dissolved
Manganese	2.1		0.020		mg/L	1		6010B	Dissolved
Sulfate	2.1		1.0		mg/L	1		300.0	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-5 — Lab Sample ID: 720-51143-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	5.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	3500		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.7		0.53		ug/L	5		8270C SIM	Total/NA
Acenaphthene	6.3		0.53		ug/L	5		8270C SIM	Total/NA
Acenaphthylene	5.8		0.53		ug/L	5		8270C SIM	Total/NA
Fluorene	15		0.53		ug/L	5		8270C SIM	Total/NA
Phenanthrene	16		0.53		ug/L	5		8270C SIM	Total/NA
Fluoranthene	1.4		0.53		ug/L	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IW-5 (Continued)

Lab Sample ID: 720-51143-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1.3		0.53		ug/L	5		8270C SIM	Total/NA
Methane	13000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	35000		520		ug/L	10		8015B	Silica Gel Cleanup
Magnesium	62		0.20		mg/L	1		6010B	Total/NA
Iron	7.4		0.20		mg/L	1		6010B	Dissolved
Manganese	6.3		0.020		mg/L	1		6010B	Dissolved
Sulfide	5.8		1.0		mg/L	1		SM 4500 S2 F	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	830		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-14
Date Collected: 07/23/13 14:30
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-1
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			07/26/13 03:26	1
Benzene	ND		0.50		ug/L			07/26/13 03:26	1
Ethylbenzene	ND		0.50		ug/L			07/26/13 03:26	1
Naphthalene	ND		1.0		ug/L			07/26/13 03:26	1
Toluene	ND		0.50		ug/L			07/26/13 03:26	1
Xylenes, Total	ND		1.0		ug/L			07/26/13 03:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/26/13 03:26	1
1,2-DCA	ND		0.50		ug/L			07/26/13 03:26	1
EDB	ND		0.50		ug/L			07/26/13 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*07/26/13 03:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*07/26/13 03:26*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*07/26/13 03:26*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Acenaphthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Acenaphthylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Fluorene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Phenanthrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Benzo[a]anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Chrysene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Benzo[a]pyrene	**0.13**		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*29 - 120*	*07/30/13 15:18*	*07/31/13 18:29*	*1*
Terphenyl-d14	*57*		*45 - 120*	*07/30/13 15:18*	*07/31/13 18:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6000**		5.0		ug/L			07/29/13 14:10	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		56		ug/L		07/24/13 09:57	07/25/13 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 5*	*07/24/13 09:57*	*07/25/13 17:26*	*1*
p-Terphenyl	*78*		*31 - 150*	*07/24/13 09:57*	*07/25/13 17:26*	*1*

Client Sample ID: IW-6
Date Collected: 07/23/13 14:00
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-2
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			07/26/13 03:52	1
Benzene	ND		0.50		ug/L			07/26/13 03:52	1
Ethylbenzene	ND		0.50		ug/L			07/26/13 03:52	1
Naphthalene	**9.9**		1.0		ug/L			07/26/13 03:52	1
Toluene	ND		0.50		ug/L			07/26/13 03:52	1
Xylenes, Total	ND		1.0		ug/L			07/26/13 03:52	1
Gasoline Range Organics (GRO) -C5-C12	**110**		50		ug/L			07/26/13 03:52	1
1,2-DCA	ND		0.50		ug/L			07/26/13 03:52	1
EDB	ND		0.50		ug/L			07/26/13 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*67 - 130*		*07/26/13 03:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*		*07/26/13 03:52*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/26/13 03:52*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**2.5**		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Acenaphthene	**0.40**		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Acenaphthylene	**0.35**		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Fluorene	**1.8**		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Phenanthrene	**0.83**		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Benzo[a]anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Chrysene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Benzo[a]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*29 - 120*	*07/30/13 15:18*	*07/31/13 18:52*	*1*
Terphenyl-d14	*32*	*X*	*45 - 120*	*07/30/13 15:18*	*07/31/13 18:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8200**		5.0		ug/L			07/29/13 14:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**970**		52		ug/L		07/24/13 09:57	07/25/13 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*2*		*0 - 5*	*07/24/13 09:57*	*07/25/13 17:51*	*1*
p-Terphenyl	*90*		*31 - 150*	*07/24/13 09:57*	*07/25/13 17:51*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: IW-6
Date Collected: 07/23/13 14:00
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-2
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**410**		1.0		mg/L		07/25/13 19:10	07/26/13 20:56	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**45**		0.20		mg/L		07/24/13 21:04	07/25/13 13:12	1
Manganese	**4.4**		0.020		mg/L		07/24/13 21:04	07/25/13 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 12:49	1
Sulfate	ND		1.0		mg/L			07/24/13 12:49	1
Sulfide	**6.2**		1.0		mg/L			07/25/13 22:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**10000**		50		mg/L			07/25/13 08:12	1

Client Sample ID: IW-3

Date Collected: 07/23/13 13:00
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-3

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		2.5		ug/L			08/01/13 00:04	5
Benzene	ND		2.5		ug/L			08/01/13 00:04	5
Ethylbenzene	ND		2.5		ug/L			08/01/13 00:04	5
Naphthalene	**150**		5.0		ug/L			08/01/13 00:04	5
Toluene	ND		2.5		ug/L			08/01/13 00:04	5
Xylenes, Total	ND		5.0		ug/L			08/01/13 00:04	5
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/L			08/01/13 00:04	5
1,2-DCA	ND		2.5		ug/L			08/01/13 00:04	5
EDB	ND		2.5		ug/L			08/01/13 00:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*08/01/13 00:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*08/01/13 00:04*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/01/13 00:04*	*5*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**51**		0.53		ug/L		07/30/13 15:18	08/02/13 12:34	5
Acenaphthene	**2.2**		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Acenaphthylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Fluorene	**1.2**		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Phenanthrene	**0.70**		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Benzo[a]anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Chrysene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Benzo[a]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*29 - 120*	*07/30/13 15:18*	*07/31/13 14:01*	*1*
2-Fluorobiphenyl	*53*		*29 - 120*	*07/30/13 15:18*	*08/02/13 12:34*	*5*
Terphenyl-d14	*55*		*45 - 120*	*07/30/13 15:18*	*07/31/13 14:01*	*1*
Terphenyl-d14	*61*		*45 - 120*	*07/30/13 15:18*	*08/02/13 12:34*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4400**		5.0		ug/L			07/29/13 14:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**95**		52		ug/L		07/24/13 09:57	07/25/13 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.07*		*0 - 5*	*07/24/13 09:57*	*07/25/13 18:15*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: IW-3
Date Collected: 07/23/13 13:00
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-3
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*87*		*31 - 150*	*07/24/13 09:57*	*07/25/13 18:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**170**		1.0		mg/L		07/25/13 19:10	07/26/13 21:01	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**15**		0.20		mg/L		07/25/13 21:17	07/26/13 13:38	1
Manganese	**3.1**		0.020		mg/L		07/25/13 21:17	07/26/13 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 13:24	1
Sulfate	ND		1.0		mg/L			07/24/13 13:24	1
Sulfide	**5.4**		1.0		mg/L			07/30/13 23:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**2800**		20		mg/L			07/25/13 08:12	1

Client Sample ID: IW-2
Date Collected: 07/23/13 13:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-4
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		5.0		ug/L			07/29/13 16:07	10
Benzene	ND		5.0		ug/L			07/29/13 16:07	10
Ethylbenzene	ND		5.0		ug/L			07/29/13 16:07	10
Naphthalene	**430**		10		ug/L			07/29/13 16:07	10
Toluene	ND		5.0		ug/L			07/29/13 16:07	10
Xylenes, Total	ND		10		ug/L			07/29/13 16:07	10
Gasoline Range Organics (GRO) -C5-C12	ND		500		ug/L			07/29/13 16:07	10
1,2-DCA	ND		5.0		ug/L			07/29/13 16:07	10
EDB	ND		5.0		ug/L			07/29/13 16:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*07/29/13 16:07*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 138*		*07/29/13 16:07*	*10*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/29/13 16:07*	*10*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**150**		1.1		ug/L		07/30/13 15:18	08/02/13 12:57	10
Acenaphthene	**87**		1.1		ug/L		07/30/13 15:18	08/02/13 12:57	10
Acenaphthylene	**1.1**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Fluorene	**64**		1.1		ug/L		07/30/13 15:18	08/02/13 12:57	10
Phenanthrene	**58**		1.1		ug/L		07/30/13 15:18	08/02/13 12:57	10
Anthracene	**4.6**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Benzo[a]anthracene	**0.24**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Chrysene	**0.21**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Benzo[a]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Benzo[b]fluoranthene	**0.11**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Fluoranthene	**5.0**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Pyrene	**2.0**		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*29 - 120*	*07/30/13 15:18*	*07/31/13 14:24*	*1*
2-Fluorobiphenyl	*53*		*29 - 120*	*07/30/13 15:18*	*08/02/13 12:57*	*10*
Terphenyl-d14	*52*		*45 - 120*	*07/30/13 15:18*	*07/31/13 14:24*	*1*
Terphenyl-d14	*53*		*45 - 120*	*07/30/13 15:18*	*08/02/13 12:57*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3900**		5.0		ug/L			07/29/13 14:24	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3400**		54		ug/L		07/24/13 09:57	07/25/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*6*	*X*	*0 - 5*	*07/24/13 09:57*	*07/25/13 16:52*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: IW-2
Date Collected: 07/23/13 13:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-4
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*66*		*31 - 150*	*07/24/13 09:57*	*07/25/13 16:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**180**		1.0		mg/L		07/25/13 19:10	07/26/13 21:05	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**13**		0.20		mg/L		07/25/13 21:17	07/26/13 13:51	1
Manganese	**3.0**		0.020		mg/L		07/25/13 21:17	07/26/13 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 14:32	1
Sulfate	ND		1.0		mg/L			07/24/13 14:32	1
Sulfide	**3.5**		1.0		mg/L			07/30/13 23:38	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3700**		20		mg/L			07/25/13 08:12	1

Client Sample ID: MW-3
Date Collected: 07/23/13 11:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-5
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		0.50		ug/L			07/31/13 00:04	1
Benzene	ND		0.50		ug/L			07/31/13 00:04	1
Ethylbenzene	ND		0.50		ug/L			07/31/13 00:04	1
Naphthalene	**1.3**		1.0		ug/L			07/31/13 00:04	1
Toluene	ND		0.50		ug/L			07/31/13 00:04	1
Xylenes, Total	ND		1.0		ug/L			07/31/13 00:04	1
Gasoline Range Organics (GRO) -C5-C12	**290**		50		ug/L			07/31/13 00:04	1
1,2-DCA	ND		0.50		ug/L			07/31/13 00:04	1
EDB	ND		0.50		ug/L			07/31/13 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*07/31/13 00:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*		*07/31/13 00:04*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/31/13 00:04*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.54**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Acenaphthene	**1.5**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Acenaphthylene	**1.2**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Fluorene	**5.5**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Phenanthrene	**4.9**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Benzo[a]anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Chrysene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Benzo[a]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Benzo[b]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Benzo[k]fluoranthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Fluoranthene	**0.16**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Pyrene	**0.15**		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*29 - 120*	*07/30/13 15:18*	*07/31/13 14:47*	*1*
Terphenyl-d14	*23*	*X*	*45 - 120*	*07/30/13 15:18*	*07/31/13 14:47*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8200**		5.0		ug/L			07/29/13 14:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7000**		110		ug/L		07/24/13 09:57	07/25/13 17:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*19*	*X*	*0 - 5*	*07/24/13 09:57*	*07/25/13 17:21*	*2*
p-Terphenyl	*62*		*31 - 150*	*07/24/13 09:57*	*07/25/13 17:21*	*2*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-3
Date Collected: 07/23/13 11:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-5
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	47		0.20		mg/L		07/24/13 18:55	07/26/13 01:17	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.7		0.20		mg/L		07/24/13 21:04	07/25/13 13:22	1
Manganese	4.4		0.020		mg/L		07/24/13 21:04	07/25/13 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 15:07	1
Sulfate	ND		1.0		mg/L			07/24/13 15:07	1
Sulfide	ND		1.0		mg/L			07/30/13 23:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	720		10		mg/L			07/25/13 08:12	1

Client Sample ID: MW-9

Date Collected: 07/23/13 10:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-6

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			07/30/13 16:25	1
Benzene	ND		0.50		ug/L			07/30/13 16:25	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 16:25	1
Naphthalene	ND		1.0		ug/L			07/30/13 16:25	1
Toluene	ND		0.50		ug/L			07/30/13 16:25	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 16:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/13 16:25	1
1,2-DCA	ND		0.50		ug/L			07/30/13 16:25	1
EDB	ND		0.50		ug/L			07/30/13 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*07/30/13 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 138*		*07/30/13 16:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/30/13 16:25*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Acenaphthene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Acenaphthylene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Fluorene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Phenanthrene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Anthracene	ND		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Benzo[a]anthracene	**0.31**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Chrysene	**0.23**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Benzo[a]pyrene	**0.17**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Benzo[b]fluoranthene	**0.28**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Benzo[k]fluoranthene	**0.27**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Benzo[g,h,i]perylene	**0.11**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Fluoranthene	**0.15**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Pyrene	**0.13**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1
Dibenz(a,h)anthracene	**0.15**		0.11		ug/L		07/30/13 15:18	07/31/13 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*29 - 120*	*07/30/13 15:18*	*07/31/13 15:11*	*1*
Terphenyl-d14	*50*		*45 - 120*	*07/30/13 15:18*	*07/31/13 15:11*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5400**		5.0		ug/L			07/29/13 14:32	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		52		ug/L		07/24/13 09:57	07/25/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 5*	*07/24/13 09:57*	*07/25/13 16:22*	*1*
p-Terphenyl	*81*		*31 - 150*	*07/24/13 09:57*	*07/25/13 16:22*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-9
Date Collected: 07/23/13 10:20
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-6
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	390		1.0		mg/L		07/25/13 19:10	07/26/13 21:10	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		0.20		mg/L		07/25/13 21:17	07/26/13 13:56	1
Manganese	2.8		0.020		mg/L		07/25/13 21:17	07/26/13 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 15:41	1
Sulfate	ND		1.0		mg/L			07/24/13 15:41	1
Sulfide	ND		1.0		mg/L			07/30/13 23:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16000		100		mg/L			07/25/13 08:12	1

Client Sample ID: MW-11
Date Collected: 07/23/13 09:40
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-7
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			07/30/13 16:51	1
Benzene	ND		0.50		ug/L			07/30/13 16:51	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 16:51	1
Naphthalene	ND		1.0		ug/L			07/30/13 16:51	1
Toluene	ND		0.50		ug/L			07/30/13 16:51	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 16:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/13 16:51	1
1,2-DCA	ND		0.50		ug/L			07/30/13 16:51	1
EDB	ND		0.50		ug/L			07/30/13 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*07/30/13 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 138*		*07/30/13 16:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/30/13 16:51*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Acenaphthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Acenaphthylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Fluorene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Phenanthrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Benzo[a]anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Chrysene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Benzo[a]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*29 - 120*	*07/30/13 15:18*	*07/31/13 15:34*	*1*
Terphenyl-d14	*48*		*45 - 120*	*07/30/13 15:18*	*07/31/13 15:34*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**7000**		5.0		ug/L			07/29/13 14:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**78**		53		ug/L		07/24/13 09:57	07/25/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.09*		*0 - 5*	*07/24/13 09:57*	*07/25/13 16:52*	*1*
p-Terphenyl	*84*		*31 - 150*	*07/24/13 09:57*	*07/25/13 16:52*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-11
Date Collected: 07/23/13 09:40
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-7
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	180		1.0		mg/L		07/25/13 19:10	07/26/13 21:14	5

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.9		0.20		mg/L		07/24/13 21:04	07/25/13 13:26	1
Manganese	1.2		0.020		mg/L		07/24/13 21:04	07/25/13 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 16:15	1
Sulfate	ND		1.0		mg/L			07/24/13 16:15	1
Sulfide	ND		1.0		mg/L			07/30/13 23:48	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		50		mg/L			07/25/13 08:12	1

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-13
Date Collected: 07/23/13 09:15
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-8
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			07/30/13 17:16	1
Benzene	ND		0.50		ug/L			07/30/13 17:16	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 17:16	1
Naphthalene	ND		1.0		ug/L			07/30/13 17:16	1
Toluene	ND		0.50		ug/L			07/30/13 17:16	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 17:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/13 17:16	1
1,2-DCA	ND		0.50		ug/L			07/30/13 17:16	1
EDB	ND		0.50		ug/L			07/30/13 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*07/30/13 17:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*		*07/30/13 17:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/30/13 17:16*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.18**		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Acenaphthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Acenaphthylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Fluorene	**0.24**		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Phenanthrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Benzo[a]anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Chrysene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Benzo[a]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*29 - 120*	*07/30/13 15:18*	*07/31/13 15:57*	*1*
Terphenyl-d14	*51*		*45 - 120*	*07/30/13 15:18*	*07/31/13 15:57*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		5.0		ug/L			07/29/13 14:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**88**		53		ug/L		07/24/13 09:57	07/26/13 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*07/24/13 09:57*	*07/26/13 10:40*	*1*
p-Terphenyl	*84*		*31 - 150*	*07/24/13 09:57*	*07/26/13 10:40*	*1*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: MW-13
Date Collected: 07/23/13 09:15
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-8
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**81**		0.20		mg/L		07/24/13 18:55	07/26/13 01:22	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.2**		0.20		mg/L		07/24/13 21:04	07/25/13 13:31	1
Manganese	**2.1**		0.020		mg/L		07/24/13 21:04	07/25/13 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 16:50	1
Sulfate	**2.1**		1.0		mg/L			07/24/13 16:50	1
Sulfide	ND		1.0		mg/L			07/30/13 23:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1400**		10		mg/L			07/25/13 08:12	1

Client Sample ID: IW-5

Date Collected: 07/23/13 07:50
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-9
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			07/30/13 17:42	1
Benzene	ND		0.50		ug/L			07/30/13 17:42	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 17:42	1
Naphthalene	**5.0**		1.0		ug/L			07/30/13 17:42	1
Toluene	ND		0.50		ug/L			07/30/13 17:42	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 17:42	1
Gasoline Range Organics (GRO) -C5-C12	**3500**		50		ug/L			07/30/13 17:42	1
1,2-DCA	ND		0.50		ug/L			07/30/13 17:42	1
EDB	ND		0.50		ug/L			07/30/13 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*		*07/30/13 17:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*		*07/30/13 17:42*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/30/13 17:42*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**2.7**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Acenaphthene	**6.3**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Acenaphthylene	**5.8**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Fluorene	**15**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Phenanthrene	**16**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Anthracene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Benzo[a]anthracene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Chrysene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Benzo[a]pyrene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Benzo[b]fluoranthene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Benzo[k]fluoranthene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Benzo[g,h,i]perylene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Indeno[1,2,3-cd]pyrene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Fluoranthene	**1.4**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Pyrene	**1.3**		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5
Dibenz(a,h)anthracene	ND		0.53		ug/L		07/30/13 15:18	08/02/13 13:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*29 - 120*	*07/30/13 15:18*	*08/02/13 13:21*	*5*
Terphenyl-d14	*26*	*X*	*45 - 120*	*07/30/13 15:18*	*08/02/13 13:21*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		5.0		ug/L			07/29/13 15:01	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35000**		520		ug/L		07/24/13 09:57	07/26/13 11:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*07/24/13 09:57*	*07/26/13 11:09*	*10*
p-Terphenyl	*0*	*X D*	*31 - 150*	*07/24/13 09:57*	*07/26/13 11:09*	*10*

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: IW-5
Date Collected: 07/23/13 07:50
Date Received: 07/23/13 18:55

Lab Sample ID: 720-51143-9
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**62**		0.20		mg/L		07/24/13 18:55	07/26/13 01:27	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.4**		0.20		mg/L		07/24/13 21:04	07/25/13 13:44	1
Manganese	**6.3**		0.020		mg/L		07/24/13 21:04	07/25/13 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 17:58	1
Sulfate	ND		1.0		mg/L			07/24/13 17:58	1
Sulfide	**5.8**		1.0		mg/L			07/30/13 23:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**830**		10		mg/L			07/25/13 08:12	1

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

Lab Sample ID: MB 720-140901/4
Matrix: Water
Analysis Batch: 140901

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			07/25/13 17:30	1
Benzene	ND		0.50		ug/L			07/25/13 17:30	1
Ethylbenzene	ND		0.50		ug/L			07/25/13 17:30	1
Naphthalene	ND		1.0		ug/L			07/25/13 17:30	1
Toluene	ND		0.50		ug/L			07/25/13 17:30	1
Xylenes, Total	ND		1.0		ug/L			07/25/13 17:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/25/13 17:30	1
1,2-DCA	ND		0.50		ug/L			07/25/13 17:30	1
EDB	ND		0.50		ug/L			07/25/13 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*67 - 130*		*07/25/13 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 138*		*07/25/13 17:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/25/13 17:30*	*1*

Lab Sample ID: LCS 720-140901/5
Matrix: Water
Analysis Batch: 140901

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	26.6		ug/L		106	62 - 130
Benzene	25.0	24.2		ug/L		97	79 - 130
Ethylbenzene	25.0	25.9		ug/L		104	80 - 120
Naphthalene	25.0	25.8		ug/L		103	70 - 130
Toluene	25.0	25.2		ug/L		101	78 - 120
m-Xylene & p-Xylene	50.0	56.5		ug/L		113	70 - 142
o-Xylene	25.0	28.1		ug/L		112	70 - 130
1,2-DCA	25.0	24.7		ug/L		99	61 - 132
EDB	25.0	28.2		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCS 720-140901/7
Matrix: Water
Analysis Batch: 140901

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	525		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*115*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*

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

Lab Sample ID: LCS 720-140901/7
Matrix: Water
Analysis Batch: 140901

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-140901/6
Matrix: Water
Analysis Batch: 140901

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	27.2		ug/L		109	62 - 130	2	20
Benzene			25.0	24.2		ug/L		97	79 - 130	0	20
Ethylbenzene			25.0	26.0		ug/L		104	80 - 120	0	20
Naphthalene			25.0	27.1		ug/L		108	70 - 130	5	20
Toluene			25.0	25.4		ug/L		102	78 - 120	1	20
m-Xylene & p-Xylene			50.0	56.3		ug/L		113	70 - 142	1	20
o-Xylene			25.0	28.0		ug/L		112	70 - 130	0	20
1,2-DCA			25.0	25.1		ug/L		101	61 - 132	2	20
EDB			25.0	28.5		ug/L		114	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-140901/8
Matrix: Water
Analysis Batch: 140901

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	528		ug/L		106	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*113*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 720-141074/4
Matrix: Water
Analysis Batch: 141074

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			07/29/13 11:55	1
Benzene	ND		0.50		ug/L			07/29/13 11:55	1
Ethylbenzene	ND		0.50		ug/L			07/29/13 11:55	1
Naphthalene	ND		1.0		ug/L			07/29/13 11:55	1
Toluene	ND		0.50		ug/L			07/29/13 11:55	1
Xylenes, Total	ND		1.0		ug/L			07/29/13 11:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/29/13 11:55	1

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

Lab Sample ID: MB 720-141074/4
Matrix: Water
Analysis Batch: 141074

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-DCA	ND		0.50		ug/L			07/29/13 11:55	1
EDB	ND		0.50		ug/L			07/29/13 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*07/29/13 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 138*		*07/29/13 11:55*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/29/13 11:55*	*1*

Lab Sample ID: LCS 720-141074/5
Matrix: Water
Analysis Batch: 141074

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	30.3		ug/L		121	62 - 130		
Benzene			25.0	27.8		ug/L		111	79 - 130		
Ethylbenzene			25.0	28.6		ug/L		114	80 - 120		
Naphthalene			25.0	26.5		ug/L		106	70 - 130		
Toluene			25.0	29.0		ug/L		116	78 - 120		
m-Xylene & p-Xylene			50.0	58.9		ug/L		118	70 - 142		
o-Xylene			25.0	29.4		ug/L		118	70 - 130		
1,2-DCA			25.0	28.5		ug/L		114	61 - 132		
EDB			25.0	29.7		ug/L		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 138*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCS 720-141074/7
Matrix: Water
Analysis Batch: 141074

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	537		ug/L		107	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-141074/6
Matrix: Water
Analysis Batch: 141074

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	25.1		ug/L		101	62 - 130	19	20
Benzene			25.0	24.2		ug/L		97	79 - 130	14	20

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

Lab Sample ID: LCSD 720-141074/6
Matrix: Water
Analysis Batch: 141074

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
Ethylbenzene	25.0	25.1		ug/L		100	80 - 120	13	20
Naphthalene	25.0	23.1		ug/L		92	70 - 130	14	20
Toluene	25.0	25.7		ug/L		103	78 - 120	12	20
m-Xylene & p-Xylene	50.0	51.4		ug/L		103	70 - 142	13	20
o-Xylene	25.0	24.7		ug/L		99	70 - 130	17	20
1,2-DCA	25.0	25.2		ug/L		101	61 - 132	12	20
EDB	25.0	29.9		ug/L		119	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-141074/8
Matrix: Water
Analysis Batch: 141074

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	552		ug/L		110	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 138*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-51143-4 MS
Matrix: Water
Analysis Batch: 141074

Client Sample ID: IW-2
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		250	276		ug/L		110	60 - 138
Benzene	ND		250	263		ug/L		105	60 - 140
Ethylbenzene	ND		250	271		ug/L		108	60 - 140
Naphthalene	430		250	637		ug/L		82	56 - 140
Toluene	ND		250	278		ug/L		110	60 - 140
m-Xylene & p-Xylene	ND		500	559		ug/L		111	60 - 140
o-Xylene	ND		250	275		ug/L		109	60 - 140
1,2-DCA	ND		250	265		ug/L		106	60 - 140
EDB	ND		250	293		ug/L		117	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: 720-51143-4 MSD
Matrix: Water
Analysis Batch: 141074

Client Sample ID: IW-2
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		250	282		ug/L		113	60 - 138	2	20
Benzene	ND		250	261		ug/L		104	60 - 140	1	20
Ethylbenzene	ND		250	270		ug/L		107	60 - 140	1	20
Naphthalene	430		250	644		ug/L		85	56 - 140	1	20
Toluene	ND		250	276		ug/L		109	60 - 140	1	20
m-Xylene & p-Xylene	ND		500	558		ug/L		111	60 - 140	0	20
o-Xylene	ND		250	274		ug/L		109	60 - 140	0	20
1,2-DCA	ND		250	266		ug/L		106	60 - 140	0	20
EDB	ND		250	289		ug/L		116	60 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 138*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 720-141144/5
Matrix: Water
Analysis Batch: 141144

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			07/30/13 09:29	1
Benzene	ND		0.50		ug/L			07/30/13 09:29	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 09:29	1
Naphthalene	ND		1.0		ug/L			07/30/13 09:29	1
Toluene	ND		0.50		ug/L			07/30/13 09:29	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 09:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/13 09:29	1
1,2-DCA	ND		0.50		ug/L			07/30/13 09:29	1
EDB	ND		0.50		ug/L			07/30/13 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/30/13 09:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*07/30/13 09:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/30/13 09:29*	*1*

Lab Sample ID: LCS 720-141144/6
Matrix: Water
Analysis Batch: 141144

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	26.3		ug/L		105	62 - 130
Benzene	25.0	24.0		ug/L		96	79 - 130
Ethylbenzene	25.0	26.2		ug/L		105	80 - 120
Naphthalene	25.0	24.5		ug/L		98	70 - 130
Toluene	25.0	25.6		ug/L		102	78 - 120
m-Xylene & p-Xylene	50.0	57.5		ug/L		115	70 - 142
o-Xylene	25.0	28.3		ug/L		113	70 - 130

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

Lab Sample ID: LCS 720-141144/6
Matrix: Water
Analysis Batch: 141144

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-DCA			25.0	25.9		ug/L		103	61 - 132		
EDB			25.0	27.8		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 138*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCS 720-141144/8
Matrix: Water
Analysis Batch: 141144

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	560		ug/L		112	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-141144/7
Matrix: Water
Analysis Batch: 141144

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	27.6		ug/L		111	62 - 130	5	20
Benzene			25.0	24.4		ug/L		98	79 - 130	2	20
Ethylbenzene			25.0	26.5		ug/L		106	80 - 120	1	20
Naphthalene			25.0	25.9		ug/L		104	70 - 130	6	20
Toluene			25.0	25.6		ug/L		103	78 - 120	0	20
m-Xylene & p-Xylene			50.0	57.8		ug/L		116	70 - 142	1	20
o-Xylene			25.0	28.6		ug/L		115	70 - 130	1	20
1,2-DCA			25.0	26.6		ug/L		106	61 - 132	3	20
EDB			25.0	28.9		ug/L		116	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-141144/9
Matrix: Water
Analysis Batch: 141144

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	551		ug/L		110	62 - 120	2	20

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

Lab Sample ID: LCSD 720-141144/9
Matrix: Water
Analysis Batch: 141144

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*113*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-51143-6 MS
Matrix: Water
Analysis Batch: 141144

Client Sample ID: MW-9
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	29.4		ug/L		117	60 - 138
Benzene	ND		25.0	24.4		ug/L		97	60 - 140
Ethylbenzene	ND		25.0	24.7		ug/L		99	60 - 140
Naphthalene	ND		25.0	27.6		ug/L		108	56 - 140
Toluene	ND		25.0	24.6		ug/L		98	60 - 140
m-Xylene & p-Xylene	ND		50.0	53.4		ug/L		107	60 - 140
o-Xylene	ND		25.0	27.8		ug/L		111	60 - 140
1,2-DCA	ND		25.0	27.7		ug/L		111	60 - 140
EDB	ND		25.0	30.3		ug/L		121	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*111*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 720-51143-6 MSD
Matrix: Water
Analysis Batch: 141144

Client Sample ID: MW-9
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	28.3		ug/L		113	60 - 138	4	20
Benzene	ND		25.0	23.9		ug/L		94	60 - 140	2	20
Ethylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
Naphthalene	ND		25.0	26.8		ug/L		106	56 - 140	3	20
Toluene	ND		25.0	24.3		ug/L		96	60 - 140	1	20
m-Xylene & p-Xylene	ND		50.0	53.5		ug/L		107	60 - 140	0	20
o-Xylene	ND		25.0	27.7		ug/L		111	60 - 140	0	20
1,2-DCA	ND		25.0	26.9		ug/L		108	60 - 140	3	20
EDB	ND		25.0	29.3		ug/L		117	60 - 140	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*112*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 720-141180/5
Matrix: Water
Analysis Batch: 141180

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			07/30/13 17:03	1
Benzene	ND		0.50		ug/L			07/30/13 17:03	1
Ethylbenzene	ND		0.50		ug/L			07/30/13 17:03	1
Naphthalene	ND		1.0		ug/L			07/30/13 17:03	1
Toluene	ND		0.50		ug/L			07/30/13 17:03	1
Xylenes, Total	ND		1.0		ug/L			07/30/13 17:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/30/13 17:03	1
1,2-DCA	ND		0.50		ug/L			07/30/13 17:03	1
EDB	ND		0.50		ug/L			07/30/13 17:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*07/30/13 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*07/30/13 17:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/30/13 17:03*	*1*

Lab Sample ID: LCS 720-141180/6
Matrix: Water
Analysis Batch: 141180

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
Benzene	25.0	23.5		ug/L		94	79 - 130
Ethylbenzene	25.0	21.9		ug/L		87	80 - 120
Naphthalene	25.0	23.1		ug/L		92	70 - 130
Toluene	25.0	23.6		ug/L		94	78 - 120
m-Xylene & p-Xylene	50.0	42.7		ug/L		85	70 - 142
o-Xylene	25.0	23.2		ug/L		93	70 - 130
1,2-DCA	25.0	25.9		ug/L		103	61 - 132
EDB	25.0	26.5		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCS 720-141180/8
Matrix: Water
Analysis Batch: 141180

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	507		ug/L		101	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*

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

Lab Sample ID: LCS 720-141180/8
Matrix: Water
Analysis Batch: 141180

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 720-141180/7
Matrix: Water
Analysis Batch: 141180

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	24.5		ug/L		98	62 - 130	2	20
Benzene			25.0	23.3		ug/L		93	79 - 130	1	20
Ethylbenzene			25.0	22.0		ug/L		88	80 - 120	1	20
Naphthalene			25.0	23.0		ug/L		92	70 - 130	1	20
Toluene			25.0	23.4		ug/L		94	78 - 120	1	20
m-Xylene & p-Xylene			50.0	43.2		ug/L		86	70 - 142	1	20
o-Xylene			25.0	23.5		ug/L		94	70 - 130	1	20
1,2-DCA			25.0	24.9		ug/L		99	61 - 132	4	20
EDB			25.0	26.0		ug/L		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-141180/9
Matrix: Water
Analysis Batch: 141180

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	503		ug/L		101	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 138*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 720-141297/4
Matrix: Water
Analysis Batch: 141297

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			07/31/13 20:37	1
Benzene	ND		0.50		ug/L			07/31/13 20:37	1
Ethylbenzene	ND		0.50		ug/L			07/31/13 20:37	1
Naphthalene	ND		1.0		ug/L			07/31/13 20:37	1
Toluene	ND		0.50		ug/L			07/31/13 20:37	1
Xylenes, Total	ND		1.0		ug/L			07/31/13 20:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/31/13 20:37	1

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

Lab Sample ID: MB 720-141297/4
Matrix: Water
Analysis Batch: 141297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-DCA	ND		0.50		ug/L			07/31/13 20:37	1
EDB	ND		0.50		ug/L			07/31/13 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*07/31/13 20:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*		*07/31/13 20:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/31/13 20:37*	*1*

Lab Sample ID: LCS 720-141297/5
Matrix: Water
Analysis Batch: 141297

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	25.0		ug/L		100	62 - 130
Benzene	25.0	23.2		ug/L		93	79 - 130
Ethylbenzene	25.0	25.8		ug/L		103	80 - 120
Naphthalene	25.0	24.1		ug/L		96	70 - 130
Toluene	25.0	25.0		ug/L		100	78 - 120
m-Xylene & p-Xylene	50.0	56.4		ug/L		113	70 - 142
o-Xylene	25.0	27.9		ug/L		112	70 - 130
1,2-DCA	25.0	25.0		ug/L		100	61 - 132
EDB	25.0	26.5		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 138*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCS 720-141297/7
Matrix: Water
Analysis Batch: 141297

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	530		ug/L		106	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-141297/6
Matrix: Water
Analysis Batch: 141297

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	26.2		ug/L		105	62 - 130	4	20
Benzene	25.0	23.3		ug/L		93	79 - 130	1	20

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

Lab Sample ID: LCSD 720-141297/6
Matrix: Water
Analysis Batch: 141297

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
Ethylbenzene			25.0	25.2		ug/L		101	80 - 120	2	20
Naphthalene			25.0	24.6		ug/L		98	70 - 130	2	20
Toluene			25.0	24.5		ug/L		98	78 - 120	2	20
m-Xylene & p-Xylene			50.0	55.0		ug/L		110	70 - 142	3	20
o-Xylene			25.0	27.4		ug/L		110	70 - 130	2	20
1,2-DCA			25.0	25.1		ug/L		100	61 - 132	0	20
EDB			25.0	27.6		ug/L		110	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-141297/8
Matrix: Water
Analysis Batch: 141297

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	516		ug/L		103	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141186/1-A
Matrix: Water
Analysis Batch: 141261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Acenaphthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Acenaphthylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Fluorene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Phenanthrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Benzo[a]anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Chrysene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Benzo[a]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Fluoranthene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1
Pyrene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-141186/1-A
Matrix: Water
Analysis Batch: 141261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/30/13 15:18	07/31/13 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*37*		*29 - 120*	*07/30/13 15:18*	*07/31/13 13:15*	*1*
Terphenyl-d14	*65*		*45 - 120*	*07/30/13 15:18*	*07/31/13 13:15*	*1*

Lab Sample ID: LCS 720-141186/2-A
Matrix: Water
Analysis Batch: 141261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	4.06		ug/L		41	29 - 120
Acenaphthene	10.0	4.48		ug/L		45	42 - 120
Acenaphthylene	10.0	4.58		ug/L		46	39 - 120
Fluorene	10.0	4.90		ug/L		49	45 - 120
Phenanthrene	10.0	4.88		ug/L		49	46 - 120
Anthracene	10.0	6.23		ug/L		62	53 - 120
Benzo[a]anthracene	10.0	6.03		ug/L		60	48 - 120
Chrysene	10.0	5.32		ug/L		53	47 - 120
Benzo[a]pyrene	10.0	5.68		ug/L		57	43 - 120
Benzo[b]fluoranthene	10.0	6.05		ug/L		60	42 - 120
Benzo[k]fluoranthene	10.0	5.95		ug/L		60	42 - 120
Benzo[g,h,i]perylene	10.0	4.90		ug/L		49	24 - 120
Indeno[1,2,3-cd]pyrene	10.0	5.19		ug/L		52	25 - 120
Fluoranthene	10.0	6.14		ug/L		61	57 - 120
Pyrene	10.0	5.23		ug/L		52	47 - 120
Dibenz(a,h)anthracene	10.0	5.08		ug/L		51	21 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*46*		*29 - 120*
Terphenyl-d14	*60*		*45 - 120*

Lab Sample ID: LCSD 720-141186/3-A
Matrix: Water
Analysis Batch: 141261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141186

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10.0	3.78		ug/L		38	29 - 120	7	35
Acenaphthene	10.0	4.38		ug/L		44	42 - 120	2	35
Acenaphthylene	10.0	4.47		ug/L		45	39 - 120	2	35
Fluorene	10.0	4.70		ug/L		47	45 - 120	4	35
Phenanthrene	10.0	4.66		ug/L		47	46 - 120	5	35
Anthracene	10.0	6.06		ug/L		61	53 - 120	3	35
Benzo[a]anthracene	10.0	6.04		ug/L		60	48 - 120	0	35
Chrysene	10.0	5.32		ug/L		53	47 - 120	0	35
Benzo[a]pyrene	10.0	5.77		ug/L		58	43 - 120	2	35
Benzo[b]fluoranthene	10.0	5.73		ug/L		57	42 - 120	5	35
Benzo[k]fluoranthene	10.0	6.35		ug/L		63	42 - 120	6	35

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-141186/3-A
Matrix: Water
Analysis Batch: 141261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141186

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene			10.0	5.05		ug/L		50	24 - 120	3	35
Indeno[1,2,3-cd]pyrene			10.0	5.42		ug/L		54	25 - 120	4	35
Fluoranthene			10.0	6.08		ug/L		61	57 - 120	1	35
Pyrene			10.0	5.20		ug/L		52	47 - 120	1	35
Dibenz(a,h)anthracene			10.0	5.27		ug/L		53	21 - 120	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*43*		*29 - 120*
Terphenyl-d14	*61*		*45 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-184819/3
Matrix: Water
Analysis Batch: 184819

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0		ug/L			07/29/13 13:47	1

Lab Sample ID: LCS 280-184819/4
Matrix: Water
Analysis Batch: 184819

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			146	150		ug/L		103	75 - 125		

Lab Sample ID: LCSD 280-184819/5
Matrix: Water
Analysis Batch: 184819

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
Methane			146	159		ug/L		109	75 - 125	6	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140775/1-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/24/13 09:57	07/25/13 18:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 5*	*07/24/13 09:57*	*07/25/13 18:15*	*1*
p-Terphenyl	*97*		*31 - 150*	*07/24/13 09:57*	*07/25/13 18:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-140775/2-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1090		ug/L		44	32 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*31 - 150*

Lab Sample ID: LCSD 720-140775/3-A
Matrix: Water
Analysis Batch: 140850

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 140775

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1050		ug/L		42	32 - 119	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*98*		*31 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-140829/1-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20		mg/L		07/24/13 18:55	07/25/13 23:43	1

Lab Sample ID: LCS 720-140829/2-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: LCSD 720-140829/3-A
Matrix: Water
Analysis Batch: 140953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium	10.0	11.5		mg/L		115	80 - 120	2	20

Lab Sample ID: MB 720-140922/1-A
Matrix: Water
Analysis Batch: 141008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20		mg/L		07/25/13 19:10	07/26/13 20:01	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-140922/2-A
Matrix: Water
Analysis Batch: 141008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: LCSD 720-140922/3-A
Matrix: Water
Analysis Batch: 141008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium	10.0	11.0		mg/L		110	80 - 120	1	20

Lab Sample ID: MB 720-140839/1-A
Matrix: Water
Analysis Batch: 140904

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 140839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20		mg/L		07/24/13 21:04	07/25/13 12:51	1
Manganese	ND		0.020		mg/L		07/24/13 21:04	07/25/13 12:51	1

Lab Sample ID: LCS 720-140839/2-A
Matrix: Water
Analysis Batch: 140931

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.22		mg/L		92	80 - 120
Manganese	1.00	0.879		mg/L		88	80 - 120

Lab Sample ID: LCSD 720-140839/3-A
Matrix: Water
Analysis Batch: 140931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 140839

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	9.32		mg/L		93	80 - 120	1	20
Manganese	1.00	0.871		mg/L		87	80 - 120	1	20

Lab Sample ID: MB 720-140932/1-A
Matrix: Water
Analysis Batch: 140974

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 140932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20		mg/L		07/25/13 21:17	07/26/13 12:03	1
Manganese	ND		0.020		mg/L		07/25/13 21:17	07/26/13 12:03	1

Lab Sample ID: LCS 720-140932/2-A
Matrix: Water
Analysis Batch: 140974

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 140932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.36		mg/L		94	80 - 120
Manganese	1.00	0.902		mg/L		90	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-140932/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 140974 — **Prep Batch: 140932**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			10.0	9.37		mg/L		94	80 - 120	0	20
Manganese			1.00	0.898		mg/L		90	80 - 120	0	20

Lab Sample ID: 720-51143-2 MS — **Client Sample ID: IW-6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 140904 — **Prep Batch: 140839**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	45		10.0	54.0	4	mg/L		94	75 - 125
Manganese	4.4		1.00	5.03	4	mg/L		67	75 - 125

Lab Sample ID: 720-51143-2 MSD — **Client Sample ID: IW-6**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 140904 — **Prep Batch: 140839**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	45		10.0	52.5	4	mg/L		79	75 - 125	3	20
Manganese	4.4		1.00	5.21	4	mg/L		85	75 - 125	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-140762/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			07/24/13 10:49	1

Lab Sample ID: LCS 720-140762/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140762

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate			10.0	9.77		mg/L		98	90 - 110

Lab Sample ID: MB 720-140763/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.23		mg/L			07/24/13 10:49	1

Lab Sample ID: LCS 720-140763/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140763

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N			2.26	2.18		mg/L		97	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 720-140854/2
Matrix: Water
Analysis Batch: 140854

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/25/13 08:12	1

Lab Sample ID: LCS 720-140854/1
Matrix: Water
Analysis Batch: 140854

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	954		mg/L		95	85 - 115		

Lab Sample ID: 720-51143-2 DU
Matrix: Water
Analysis Batch: 140854

Client Sample ID: IW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	10000			10200		mg/L				3	10

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-194912/1
Matrix: Water
Analysis Batch: 194912

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			07/25/13 21:20	1

Lab Sample ID: LCS 500-194912/2
Matrix: Water
Analysis Batch: 194912

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			3.70	3.87		mg/L		105	80 - 120		

Lab Sample ID: MB 500-195613/1
Matrix: Water
Analysis Batch: 195613

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			07/30/13 23:00	1

Lab Sample ID: LCS 500-195613/2
Matrix: Water
Analysis Batch: 195613

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			3.70	3.53		mg/L		95	80 - 120		

GC/MS VOA

Analysis Batch: 140901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-2	IW-6	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140901/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140901/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140901/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140901/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-140901/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 141074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-4	IW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-4 MS	IW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-4 MSD	IW-2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141074/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141074/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141074/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141074/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-141074/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 141144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-6	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-6 MS	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-6 MSD	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-7	MW-11	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-8	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-51143-9	IW-5	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141144/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141144/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141144/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141144/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 141144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-141144/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 141180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-5	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141180/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141180/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141180/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141180/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-141180/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 141297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141297/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-141297/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141297/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-141297/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-141297/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 141186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Total/NA	Water	3510C	
720-51143-2	IW-6	Total/NA	Water	3510C	
720-51143-3	IW-3	Total/NA	Water	3510C	
720-51143-4	IW-2	Total/NA	Water	3510C	
720-51143-5	MW-3	Total/NA	Water	3510C	
720-51143-6	MW-9	Total/NA	Water	3510C	
720-51143-7	MW-11	Total/NA	Water	3510C	
720-51143-8	MW-13	Total/NA	Water	3510C	
720-51143-9	IW-5	Total/NA	Water	3510C	
LCS 720-141186/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-141186/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-141186/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 141261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Total/NA	Water	8270C SIM	141186
720-51143-2	IW-6	Total/NA	Water	8270C SIM	141186

GC/MS Semi VOA (Continued)

Analysis Batch: 141261 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Total/NA	Water	8270C SIM	141186
720-51143-4	IW-2	Total/NA	Water	8270C SIM	141186
720-51143-5	MW-3	Total/NA	Water	8270C SIM	141186
720-51143-6	MW-9	Total/NA	Water	8270C SIM	141186
720-51143-7	MW-11	Total/NA	Water	8270C SIM	141186
720-51143-8	MW-13	Total/NA	Water	8270C SIM	141186
LCS 720-141186/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	141186
LCSD 720-141186/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	141186
MB 720-141186/1-A	Method Blank	Total/NA	Water	8270C SIM	141186

Analysis Batch: 141437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Total/NA	Water	8270C SIM	141186
720-51143-4	IW-2	Total/NA	Water	8270C SIM	141186
720-51143-9	IW-5	Total/NA	Water	8270C SIM	141186

GC VOA

Analysis Batch: 184819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Total/NA	Water	RSK-175	
720-51143-2	IW-6	Total/NA	Water	RSK-175	
720-51143-3	IW-3	Total/NA	Water	RSK-175	
720-51143-4	IW-2	Total/NA	Water	RSK-175	
720-51143-5	MW-3	Total/NA	Water	RSK-175	
720-51143-6	MW-9	Total/NA	Water	RSK-175	
720-51143-7	MW-11	Total/NA	Water	RSK-175	
720-51143-8	MW-13	Total/NA	Water	RSK-175	
720-51143-9	IW-5	Total/NA	Water	RSK-175	
LCS 280-184819/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-184819/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 280-184819/3	Method Blank	Total/NA	Water	RSK-175	

GC Semi VOA

Prep Batch: 140775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Silica Gel Cleanup	Water	3510C SGC	
720-51143-2	IW-6	Silica Gel Cleanup	Water	3510C SGC	
720-51143-3	IW-3	Silica Gel Cleanup	Water	3510C SGC	
720-51143-4	IW-2	Silica Gel Cleanup	Water	3510C SGC	
720-51143-5	MW-3	Silica Gel Cleanup	Water	3510C SGC	
720-51143-6	MW-9	Silica Gel Cleanup	Water	3510C SGC	
720-51143-7	MW-11	Silica Gel Cleanup	Water	3510C SGC	
720-51143-8	MW-13	Silica Gel Cleanup	Water	3510C SGC	
720-51143-9	IW-5	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-140775/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-140775/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-140775/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

GC Semi VOA (Continued)

Analysis Batch: 140850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140775/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	140775
LCSD 720-140775/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	140775
MB 720-140775/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	140775

Analysis Batch: 140851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-1	MW-14	Silica Gel Cleanup	Water	8015B	140775
720-51143-2	IW-6	Silica Gel Cleanup	Water	8015B	140775
720-51143-3	IW-3	Silica Gel Cleanup	Water	8015B	140775

Analysis Batch: 140856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-4	IW-2	Silica Gel Cleanup	Water	8015B	140775
720-51143-5	MW-3	Silica Gel Cleanup	Water	8015B	140775

Analysis Batch: 140857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-6	MW-9	Silica Gel Cleanup	Water	8015B	140775
720-51143-7	MW-11	Silica Gel Cleanup	Water	8015B	140775

Analysis Batch: 140943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-8	MW-13	Silica Gel Cleanup	Water	8015B	140775
720-51143-9	IW-5	Silica Gel Cleanup	Water	8015B	140775

Metals

Prep Batch: 140829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-5	MW-3	Total/NA	Water	3010A	
720-51143-8	MW-13	Total/NA	Water	3010A	
720-51143-9	IW-5	Total/NA	Water	3010A	
LCS 720-140829/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-140829/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-140829/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 140839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Dissolved	Water	3005A	
720-51143-2 MS	IW-6	Dissolved	Water	3005A	
720-51143-2 MSD	IW-6	Dissolved	Water	3005A	
720-51143-5	MW-3	Dissolved	Water	3005A	
720-51143-7	MW-11	Dissolved	Water	3005A	
720-51143-8	MW-13	Dissolved	Water	3005A	
720-51143-9	IW-5	Dissolved	Water	3005A	
LCS 720-140839/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-140839/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-140839/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 140904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Dissolved	Water	6010B	140839
720-51143-2 MS	IW-6	Dissolved	Water	6010B	140839
720-51143-2 MSD	IW-6	Dissolved	Water	6010B	140839
720-51143-5	MW-3	Dissolved	Water	6010B	140839
720-51143-7	MW-11	Dissolved	Water	6010B	140839
720-51143-8	MW-13	Dissolved	Water	6010B	140839
720-51143-9	IW-5	Dissolved	Water	6010B	140839
MB 720-140839/1-A	Method Blank	Total Recoverable	Water	6010B	140839

Prep Batch: 140922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	3010A	
720-51143-3	IW-3	Total/NA	Water	3010A	
720-51143-4	IW-2	Total/NA	Water	3010A	
720-51143-6	MW-9	Total/NA	Water	3010A	
720-51143-7	MW-11	Total/NA	Water	3010A	
LCS 720-140922/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-140922/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-140922/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 140931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140839/2-A	Lab Control Sample	Total Recoverable	Water	6010B	140839
LCSD 720-140839/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	140839

Prep Batch: 140932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Dissolved	Water	3005A	
720-51143-4	IW-2	Dissolved	Water	3005A	
720-51143-6	MW-9	Dissolved	Water	3005A	
LCS 720-140932/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-140932/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-140932/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 140953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-5	MW-3	Total/NA	Water	6010B	140829
720-51143-8	MW-13	Total/NA	Water	6010B	140829
720-51143-9	IW-5	Total/NA	Water	6010B	140829
LCS 720-140829/2-A	Lab Control Sample	Total/NA	Water	6010B	140829
LCSD 720-140829/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	140829
MB 720-140829/1-A	Method Blank	Total/NA	Water	6010B	140829

Analysis Batch: 140974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Dissolved	Water	6010B	140932
720-51143-4	IW-2	Dissolved	Water	6010B	140932
720-51143-6	MW-9	Dissolved	Water	6010B	140932
LCS 720-140932/2-A	Lab Control Sample	Total Recoverable	Water	6010B	140932
LCSD 720-140932/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	140932
MB 720-140932/1-A	Method Blank	Total Recoverable	Water	6010B	140932

Metals (Continued)

Analysis Batch: 141008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	6010B	140922
720-51143-3	IW-3	Total/NA	Water	6010B	140922
720-51143-4	IW-2	Total/NA	Water	6010B	140922
720-51143-6	MW-9	Total/NA	Water	6010B	140922
720-51143-7	MW-11	Total/NA	Water	6010B	140922
LCS 720-140922/2-A	Lab Control Sample	Total/NA	Water	6010B	140922
LCSD 720-140922/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	140922
MB 720-140922/1-A	Method Blank	Total/NA	Water	6010B	140922

General Chemistry

Analysis Batch: 140762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	300.0	
720-51143-3	IW-3	Total/NA	Water	300.0	
720-51143-4	IW-2	Total/NA	Water	300.0	
720-51143-5	MW-3	Total/NA	Water	300.0	
720-51143-6	MW-9	Total/NA	Water	300.0	
720-51143-7	MW-11	Total/NA	Water	300.0	
720-51143-8	MW-13	Total/NA	Water	300.0	
720-51143-9	IW-5	Total/NA	Water	300.0	
LCS 720-140762/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-140762/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 140763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	300.0	
720-51143-3	IW-3	Total/NA	Water	300.0	
720-51143-4	IW-2	Total/NA	Water	300.0	
720-51143-5	MW-3	Total/NA	Water	300.0	
720-51143-6	MW-9	Total/NA	Water	300.0	
720-51143-7	MW-11	Total/NA	Water	300.0	
720-51143-8	MW-13	Total/NA	Water	300.0	
720-51143-9	IW-5	Total/NA	Water	300.0	
LCS 720-140763/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-140763/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 140854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	SM 2540C	
720-51143-2 DU	IW-6	Total/NA	Water	SM 2540C	
720-51143-3	IW-3	Total/NA	Water	SM 2540C	
720-51143-4	IW-2	Total/NA	Water	SM 2540C	
720-51143-5	MW-3	Total/NA	Water	SM 2540C	
720-51143-6	MW-9	Total/NA	Water	SM 2540C	
720-51143-7	MW-11	Total/NA	Water	SM 2540C	
720-51143-8	MW-13	Total/NA	Water	SM 2540C	
720-51143-9	IW-5	Total/NA	Water	SM 2540C	
LCS 720-140854/1	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 720-140854/2	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 194912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-2	IW-6	Total/NA	Water	SM 4500 S2 F	
LCS 500-194912/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
MB 500-194912/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 195613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51143-3	IW-3	Total/NA	Water	SM 4500 S2 F	
720-51143-4	IW-2	Total/NA	Water	SM 4500 S2 F	
720-51143-5	MW-3	Total/NA	Water	SM 4500 S2 F	
720-51143-6	MW-9	Total/NA	Water	SM 4500 S2 F	
720-51143-7	MW-11	Total/NA	Water	SM 4500 S2 F	
720-51143-8	MW-13	Total/NA	Water	SM 4500 S2 F	
720-51143-9	IW-5	Total/NA	Water	SM 4500 S2 F	
LCS 500-195613/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
MB 500-195613/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

Client Sample ID: MW-14

Lab Sample ID: 720-51143-1

Date Collected: 07/23/13 14:30

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	140901	07/26/13 03:26	LPL	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 18:29	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:10	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140851	07/25/13 17:26	DCH	TAL PLS

Client Sample ID: IW-6

Lab Sample ID: 720-51143-2

Date Collected: 07/23/13 14:00

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	140901	07/26/13 03:52	LPL	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 18:52	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:15	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140851	07/25/13 17:51	DCH	TAL PLS
Dissolved	Prep	3005A			140839	07/24/13 21:04	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140904	07/25/13 13:12	CAM	TAL PLS
Total/NA	Prep	3010A			140922	07/25/13 19:10	ASB	TAL PLS
Total/NA	Analysis	6010B		5	141008	07/26/13 20:56	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	194912		CLB	TAL CHI
					(Start)	07/25/13 22:17		
					(End)	07/25/13 22:20		
Total/NA	Analysis	300.0		1	140762	07/24/13 12:49	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 12:49	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: IW-3

Lab Sample ID: 720-51143-3

Date Collected: 07/23/13 13:00

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	141297	08/01/13 00:04	LPL	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 14:01	MQL	TAL PLS
Total/NA	Analysis	8270C SIM		5	141437	08/02/13 12:34	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:19	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140851	07/25/13 18:15	DCH	TAL PLS
Dissolved	Prep	3005A			140932	07/25/13 21:17	ASB	TAL PLS

Client Sample ID: IW-3

Lab Sample ID: 720-51143-3

Date Collected: 07/23/13 13:00

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	140974	07/26/13 13:38	CAM	TAL PLS
Total/NA	Prep	3010A			140922	07/25/13 19:10	ASB	TAL PLS
Total/NA	Analysis	6010B		5	141008	07/26/13 21:01	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
					(Start)	07/30/13 23:34		
					(End)	07/30/13 23:38		
Total/NA	Analysis	300.0		1	140762	07/24/13 13:24	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 13:24	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: IW-2

Lab Sample ID: 720-51143-4

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	141074	07/29/13 16:07	LPL	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 14:24	MQL	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		10	141437	08/02/13 12:57	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:24	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140856	07/25/13 16:52	DCH	TAL PLS
Dissolved	Prep	3005A			140932	07/25/13 21:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140974	07/26/13 13:51	CAM	TAL PLS
Total/NA	Prep	3010A			140922	07/25/13 19:10	ASB	TAL PLS
Total/NA	Analysis	6010B		5	141008	07/26/13 21:05	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
					(Start)	07/30/13 23:38		
					(End)	07/30/13 23:41		
Total/NA	Analysis	300.0		1	140762	07/24/13 14:32	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 14:32	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: MW-3

Lab Sample ID: 720-51143-5

Date Collected: 07/23/13 11:20

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	141180	07/31/13 00:04	ASC	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 14:47	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:28	TEM	TAL DEN

Client Sample ID: MW-3

Lab Sample ID: 720-51143-5

Date Collected: 07/23/13 11:20

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	140856	07/25/13 17:21	DCH	TAL PLS
Dissolved	Prep	3005A			140839	07/24/13 21:04	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140904	07/25/13 13:22	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 01:17	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
					(Start)	07/30/13 23:41		
					(End)	07/30/13 23:45		
Total/NA	Analysis	300.0		1	140762	07/24/13 15:07	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 15:07	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: MW-9

Lab Sample ID: 720-51143-6

Date Collected: 07/23/13 10:20

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	141144	07/30/13 16:25	ASC	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 15:11	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:32	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140857	07/25/13 16:22	DCH	TAL PLS
Dissolved	Prep	3005A			140932	07/25/13 21:17	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140974	07/26/13 13:56	CAM	TAL PLS
Total/NA	Prep	3010A			140922	07/25/13 19:10	ASB	TAL PLS
Total/NA	Analysis	6010B		5	141008	07/26/13 21:10	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
					(Start)	07/30/13 23:45		
					(End)	07/30/13 23:48		
Total/NA	Analysis	300.0		1	140762	07/24/13 15:41	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 15:41	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: MW-11

Lab Sample ID: 720-51143-7

Date Collected: 07/23/13 09:40

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	141144	07/30/13 16:51	ASC	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 15:34	MQL	TAL PLS

Client Sample ID: MW-11

Lab Sample ID: 720-51143-7

Date Collected: 07/23/13 09:40

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:47	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140857	07/25/13 16:52	DCH	TAL PLS
Dissolved	Prep	3005A			140839	07/24/13 21:04	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140904	07/25/13 13:26	CAM	TAL PLS
Total/NA	Prep	3010A			140922	07/25/13 19:10	ASB	TAL PLS
Total/NA	Analysis	6010B		5	141008	07/26/13 21:14	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
						(Start) 07/30/13 23:48		
						(End) 07/30/13 23:52		
Total/NA	Analysis	300.0		1	140762	07/24/13 16:15	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 16:15	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: MW-13

Lab Sample ID: 720-51143-8

Date Collected: 07/23/13 09:15

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	141144	07/30/13 17:16	ASC	TAL PLS
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	141261	07/31/13 15:57	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 14:56	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140943	07/26/13 10:40	DCH	TAL PLS
Dissolved	Prep	3005A			140839	07/24/13 21:04	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140904	07/25/13 13:31	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 01:22	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
						(Start) 07/30/13 23:52		
						(End) 07/30/13 23:55		
Total/NA	Analysis	300.0		1	140762	07/24/13 16:50	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 16:50	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Client Sample ID: IW-5

Lab Sample ID: 720-51143-9

Date Collected: 07/23/13 07:50

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	141144	07/30/13 17:42	ASC	TAL PLS

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Client Sample ID: IW-5

Lab Sample ID: 720-51143-9

Date Collected: 07/23/13 07:50

Matrix: Water

Date Received: 07/23/13 18:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			141186	07/30/13 15:18	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		5	141437	08/02/13 13:21	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	184819	07/29/13 15:01	TEM	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			140775	07/24/13 09:57	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	140943	07/26/13 11:09	DCH	TAL PLS
Dissolved	Prep	3005A			140839	07/24/13 21:04	ASB	TAL PLS
Dissolved	Analysis	6010B		1	140904	07/25/13 13:44	CAM	TAL PLS
Total/NA	Prep	3010A			140829	07/24/13 18:55	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140953	07/26/13 01:27	SLK	TAL PLS
Total/NA	Analysis	SM 4500 S2 F		1	195613		CLB	TAL CHI
					(Start)	07/30/13 23:55		
					(End)	07/30/13 23:59		
Total/NA	Analysis	300.0		1	140762	07/24/13 17:58	MJK	TAL PLS
Total/NA	Analysis	300.0		1	140763	07/24/13 17:58	MJK	TAL PLS
Total/NA	Analysis	SM 2540C		1	140854	07/25/13 08:12	NVP	TAL PLS

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-13
A2LA	ISO/IEC 17025		2907.01	10-31-13
Alabama	State Program	4	40730	09-30-13 *
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	09-01-13
California	ELAP	9	2513	08-31-14 *
Colorado	State Program	8	N/A	09-30-13
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	02096	09-01-13 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Denver (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Nevada	State Program	9	CO0026	09-01-13
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-13
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	09-01-13 *
South Carolina	State Program	4	72002	09-01-13 *
Texas	NELAP	6	T104704183-08-TX	09-30-13
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	09-01-13
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	09-01-13 *
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-13
Wyoming (UST)	A2LA	8		10-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
RSK-175	Dissolved Gases (GC)	RSK	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PLS
SM 4500 S2 F	Sulfide, Total	SM	TAL CHI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51143-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51143-1	MW-14	Water	07/23/13 14:30	07/23/13 18:55
720-51143-2	IW-6	Water	07/23/13 14:00	07/23/13 18:55
720-51143-3	IW-3	Water	07/23/13 13:00	07/23/13 18:55
720-51143-4	IW-2	Water	07/23/13 13:20	07/23/13 18:55
720-51143-5	MW-3	Water	07/23/13 11:20	07/23/13 18:55
720-51143-6	MW-9	Water	07/23/13 10:20	07/23/13 18:55
720-51143-7	MW-11	Water	07/23/13 09:40	07/23/13 18:55
720-51143-8	MW-13	Water	07/23/13 09:15	07/23/13 18:55
720-51143-9	IW-5	Water	07/23/13 07:50	07/23/13 18:55

BLAINE TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130722-RW1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF 147427 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER 720-51143

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	C	TPH-Gro, BTEX, MTBE, Naphthalene, 1,2-DCS, EDB (8260)	DRO w/ SGC	Methane	Nitrate, Sulfate, TDS (Short holds)	Sulfide	Total Diss. Iron, Manganese (Field Filtered)	Magnesium	PAH's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-14	7/23/13	1430	W	9	mix	X	X	X					X				1
IW-6		1400		13		X	X	X	X	X	X	X	X				2
IW-3		1300				X	X	X	X	X	X	X	X				3
IW-2		1320				X	X	X	X	X	X	X	X				4
MW-3		1120				X	X	X	X	X	X	X	X				5
MW-9		1020				X	X	X	X	X	X	X	X				6
MW-11		0940				X	X	X	X	X	X	X	X				7
MW-13		0915				X	X	X	X	X	X	X	X				8
IW-5		0750				X	X	X	X	X	X	X	X				9

720-51143 Chain of Custody

SAMPLING COMPLETED	DATE	TIME
	7/23/13	1430

SAMPLING PERFORMED BY: Daniel Allen

RESULTS NEEDED NO LATER THAN: Standard TAT

		DATE	TIME			DATE	TIME
RELEASED BY		7/23/13	1705	RECEIVED BY		7/23/13	1705
RELEASED BY		7/23/13	1705	RECEIVED BY	TAP	07/23/13	1705
RELEASED BY		07/23/13	1855	RECEIVED BY	TAP	7/20/13	1855

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

2.3°C, 3.6°C

8/5/2013

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-51143-1

Login Number: 51143

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.	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: ARCADIS U.S. Inc

Job Number: 720-51143-1

Login Number: 51143
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago
List Creation: 07/25/13 01:41 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.	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: ARCADIS U.S. Inc

Job Number: 720-51143-1

Login Number: 51143
List Number: 1
Creator: Knauf, James R

List Source: TestAmerica Denver
List Creation: 07/25/13 06:09 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?	False	FIELD LEFT BLANK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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: 720-51620-1
Client Project/Site: UPS-Oakland

For:
ARCADIS U.S. Inc
1000 Cobb Place Blvd NW
Suite 500-A
Kennesaw, Georgia 30144

Attn: Ms. Jennifer LeBeau

Authorized for release by:
8/19/2013 2:49:58 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 720-51620-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51620-1

Comments
No additional comments.

Receipt
The sample was received on 8/13/2013 5:40 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.9º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: IW-5 (720-51620-1).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Client Sample ID: IW-5

Lab Sample ID: 720-51620-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	39000		500		ug/L	10		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Client Sample ID: IW-5
Date Collected: 08/12/13 12:00
Date Received: 08/13/13 17:40

Lab Sample ID: 720-51620-1
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39000		500		ug/L		08/15/13 13:56	08/16/13 19:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/15/13 13:56*	*08/16/13 19:52*	*10*
p-Terphenyl	*0*	*X D*	*31 - 150*	*08/15/13 13:56*	*08/16/13 19:52*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142276/1-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/15/13 13:56	08/16/13 21:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 5*	*08/15/13 13:56*	*08/16/13 21:20*	*1*
p-Terphenyl	*82*		*31 - 150*	*08/15/13 13:56*	*08/16/13 21:20*	*1*

Lab Sample ID: LCS 720-142276/2-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1710		ug/L		69	32 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*97*		*31 - 150*

Lab Sample ID: LCSD 720-142276/3-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1530		ug/L		61	32 - 119	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*93*		*31 - 150*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

GC Semi VOA

Prep Batch: 142276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51620-1	IW-5	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-142276/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-142276/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-142276/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 142339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51620-1	IW-5	Silica Gel Cleanup	Water	8015B	142276
LCS 720-142276/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	142276
LCSD 720-142276/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	142276
MB 720-142276/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	142276

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Client Sample ID: IW-5
Date Collected: 08/12/13 12:00
Date Received: 08/13/13 17:40

Lab Sample ID: 720-51620-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			142276	08/15/13 13:56	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142339	08/16/13 19:52	DCH	TAL PLS

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	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: ARCADIS U.S. Inc
Project/Site: UPS-Oakland

TestAmerica Job ID: 720-51620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51620-1	IW-5	Water	08/12/13 12:00	08/13/13 17:40

147904

BLAINE
TECH SERVICES, INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 130912-501

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: TA - SF DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

720-51620

SPECIAL INSTRUCTIONS

Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

SAMPLE I.D	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL		TPH-Gro, BTEX, MTBE, Naphthalene, 1,2-DCE, EDB (8260)	DRO w/ SGC	Methane	Nitrate, Sulfate, TDS (Short holds)	Sulfide	Total Diss. Iron, Manganese (Field Filtered)	Magnesium	PAH's	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1-5	8-12-13	1200	W	2	Amb/Prs		X										

720-51620 Chain of Custody

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	8-12-13	1200	J. Ortiz	Standard TAT

		DATE	TIME		DATE	TIME
RELEASED BY		8-12-13	1345	RECEIVED BY		8-12-13 1345
RELEASED BY	(Sample Custody)	08/13/13	11:20	RECEIVED BY		08/13/13 11:20
RELEASED BY		08/13/13	1740	RECEIVED BY		8-13-13 1740

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

0.9°C

8/19/2013

Sharma, Dimple 720-51620

From: LeBeau, Jennifer [Jennifer.LeBeau@arcadis-us.com]
Sent: Wednesday, August 14, 2013 11:08 AM
To: Sharma, Dimple; Susin, Erin; Devery, Hugh
Subject: RE: Sample Login Confirmation for 720-51620, UPS-Oakland

Please rush this sample for 24 hour tat
Thanks
Jennifer

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Wednesday, August 14, 2013 2:06 PM
To: Susin, Erin; Devery, Hugh; LeBeau, Jennifer
Subject: Sample Login Confirmation for 720-51620, UPS-Oakland

RUSH

DIMPLE SHARMA

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

720-51620 Chain of Custody

Reference: [137064]
Attachments: 3

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-51620-1

Login Number: 51620

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

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.	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	

ARCADIS

Appendix D

UPS – Oakland Hub
Waste Manifest

Icon Environmental Services, Inc.

WE ACCEPT VISA & MASTERCARD

REMIT TO:
P.O. Box 2407 UNION CITY, CA 94587-2407
(800) 499-3676 FAX (510) 476-1786
CAL 000 362 980

Bill of Lading
Invoice # 01179
Date 2-25-13

BILLING INFORMATION

NAME: Arcadis US Inc
ADDRESS: 630 Plaza Dr Ste # 600
CITY: Highlands Ranch STATE: CO ZIP: 80129
PHONE NO.: (770) 428-9009

JOB SITE

NAME: United Parcel Services Inc
ADDRESS: 8400 Pardee Dr
CITY: Oakland STATE: CA ZIP: 94621
PHONE NO.: ( )

PO # B0038398.0018 CASH CHECK
CUSTOMER EPA ID #

PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Waste Flammable, Liquid N.O.S., 3 UN1993, PG III						
Non-RCRA Hazardous, Waste, Liquid	X	NH-11188	1100	Ga		
Non-RCRA Hazardous, Waste, Solid						
Waste Corrosive Liquid, N.O.S., 8						
RCRA Hazardous Waste						
Non Hazardous Waste Liquid						
Non Hazardous Waste Solid						
Transportation Charges	X	11	11.0	Hrs		
Additional Labor						
Pressure Washer						
Drum Setup Used / New	Metal / Poly	Size 55 / 30 / 15 / 5				
Empty Drum Disposal	Metal / Poly	Size 55 / 30 / 15 / 5				
Over Pack Drum	Metal / Poly	Size 95 / 85				
Drained Used Oil Filters						
Other:						

DISPOSAL/RECYCLING FACILITY:

TOTAL

NET 10 DAYS

[X] Icon Environmental Services
1220 Whipple Road, Union City, CA
CAL 000 369 026; 94587
(800) 499-3676

[ ] Ecology Control Industries
255 Parr Blvd., Richmond CA
CAD009466392; 94801
(310) 354-9999

[ ] US Ecology
HWY 95, 11 Miles S. of Beatty, Beatty, NV
NVD 048 946 016 89003
(775) 553-2203

[ ] DK Dixon
7300 Chevron Way, Dixon, CA
CAT 080 512 602; 95620
(707) 693-6008

[ ] AERC
30677 Huntwood Ave., Hayward, CA
(510) 429-1129; 94544

[ ] Commercial Filter Recycling
33210 Western Ave; Union City, CA
(510) 487-9227; 94587

[ ] East Bay MUD
2200 Wake Ave., Oakland, CA
(510) 313-8400; 94623

[ ] Crosby & Overton
1630 W. 17th St.; Long Beach, CA
CAD 028 409 019; 90183
(562) 432-5445

[ ] _____

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the waste has been disclosed. I certify that we have an established program to reduce the volume of waste to the degree to be economically practicable.

DRIVER SIGNATURE _____

GENERATOR SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number 11188

GENERATOR

4. Generator's Name and Mailing Address

United Parcel Services Inc
8400 Pardee Drive
Oakland CA ~~94521~~ 94621 TT

Generator's Phone

same

5. Transporter Company Name	6. US EPA ID Number	7. Transporter Phone
Icon Environmental Services ~~CLEARWATER ENVIRONMENTAL~~ TT	CAL 000362980 ~~CAR000007013~~ TT	(510) 476-1740

8. Designated Facility Name and Site Address	9. US EPA ID Number	10. Facility's Phone
Icon Environmental Services Inc 1220 Whipple Rd Union City, CA 94587	CAL 000 369 026	510-476-1740

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste Liquid 1100	001	TT	1100	G
b.				

15. Special Handling Instructions and Additional Information

Wear PPE
Emergency Contact
(510) 476-1740
Attn: Charles Seaton

11.0

Handling Codes for Wastes Listed Above	
11a.	11b.

TRANSPORTER

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Kathryn Finch	Kathryn	2	25	13

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Mik Brown Sr		2	25	13

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name	Signature	Month	Day	Year

WHITE–ORIGINAL (Return to Generator) YELLOW–TSDF (Retain Copy) PINK–TRANSPORTER COPY GOLDENROD-GENERATOR'S COPY

Icon Environmental Services, Inc.

WE ACCEPT VISA & MASTERCARD

MasterCard VISA

REMIT TO:

P.O. Box 2407 UNION CITY, CA 94587-2407
(800) 499-3676 FAX (510) 476-1786
CAL 000 362 980

Bill of Lading
Invoice # 01448
Date 4-4-13

BILLING INFORMATION	JOB SITE	
NAME Arcadis US INC	NAME United Parcel Servies	PO # B0038398-0018 CASH CHECK
ADDRESS 630 Plaza DR #600	ADDRESS 8400 Pardee DR	CUSTOMER EPA ID #
CITY HighlandsRanch STATE Co. ZIP	CITY Oakland STATE CA ZIP 94621	
PHONE NO. ( )	PHONE NO. ( )	

PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Waste Flammable, Liquid N.O.S., 3 UN1993, PG III						
Non-RCRA Hazardous, Waste, Liquid						
Non-RCRA Hazardous, Waste, Solid						
Waste Corrosive Liquid, N.O.S., 8						
RCRA Hazardous Waste						
Non Hazardous Waste Liquid		12143	750	G		
Non Hazardous Waste Solid						
Transportation Charges						
Additional Labor		LABOR	9.0	HRS		
Pressure Washer						
Drum Setup Used / New	Metal / Poly	Size 55 / 30 / 15 / 5				
Empty Drum Disposal	Metal / Poly	Size 55 / 30 / 15 / 5				
Over Pack Drum	Metal / Poly	Size 95 / 85				
Drained Used Oil Filters						
Other:						

DISPOSAL/RECYCLING FACILITY:

TOTAL

NET 10 DAYS

- [ ] Icon Environmental Services
1220 Whipple Road, Union City, CA
CAL 000 369 026; 94587
(800) 499-3676
- [ ] Ecology Control Industries
255 Parr Blvd., Richmond CA
CAD009466392; 94801
(310) 354-9999
- [ ] US Ecology
HWY 95, 11 Miles S. of Beatty, Beatty, NV
NVD 048 946 016 89003
(775) 553-2203
- [ ] DK Dixon
7300 Chevron Way, Dixon, CA
CAT 080 512 602; 95620
(707) 693-6008
- [ ] AERC
30677 Huntwood Ave., Hayward, CA
(510) 429-1129; 94544
- [ ] Commercial Filter Recycling
33210 Western Ave; Union City, CA
(510) 487-9227; 94587
- [ ] East Bay MUD
2200 Wake Ave., Oakland, CA
(510) 313-8400; 94623
- [ ] Crosby & Overton
1630 W. 17th St.; Long Beach, CA
CAD 028 409 019; 90183
(562) 432-5445
- [x] ICON
CAL 000 396 626

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the waste has been disclosed. I certify that we have an established program to reduce the volume of waste to the degree to be economically practicable.

DRIVER SIGNATURE [signature]

GENERATOR SIGNATURE [signature]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number
		12143

GENERATOR

4. Generator's Name and Mailing Address

United Parcel Services Inc
8400 Pardee Drive
Oakland, CA 94621

Generator's Phone

5. Transporter Company Name	6. US EPA ID Number	7. Transporter Phone
Icon Environmental Services CLEARWATER ENVIRONMENTAL	CAL 000 362 980 CAR000007013	(510) 476-1740

8. Designated Facility Name and Site Address	9. US EPA ID Number	10. Facility's Phone
Icon Environmental Services Inc 1220 Whipple Road Union City, CA 94587	CAL 000 369 026	510-476-1740

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste LIQUID	001	TT	750	G
b.				

15. Special Handling instructions and Additional information

Wear PPE
Emergency Contact
(510) 476-1740
Attn: Charles Seaton

Arcadis

Handling Codes for Wastes Listed Above	
11a.	11b.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Eugenio Villareal		07	04	13

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name	Signature	Month	Day	Year

WHITE–ORIGINAL (Return to Generator) YELLOW–TSDF (Retain Copy) PINK–TRANSPORTER COPY GOLDENROD-GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number
		12232

GENERATOR

4. Generator's Name and Mailing Address

United Parcel Services Inc
8400 Pardee Drive
Oakland, CA 94621

Generator's Phone

5. Transporter Company Name	6. US EPA ID Number	7. Transporter Phone
Icon Environmental Services ~~CLEARWATER ENVIRONMENTAL~~	CAL 000 362 980 CAR000007013	(510) 476-1740

8. Designated Facility Name and Site Address	9. US EPA ID Number	10. Facility's Phone
Icon Environmental Services Inc 1220 Whipple Road Union City, CA 94587	CAL 000 369 026	510-476-1740

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste Water	001	TT	1200	G
b.				

15. Special Handling Instructions and Additional Information

Wear PPE
Emergency Contact
(510) 476-1740
Attn: Charles Seaton

Arcadis

Handling Codes for Wastes Listed Above	
11a.	11b.

TRANSPORTER

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Scott Wenning		5	15	13

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tony Barreda	Tony Barreda	5	15	13

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name	Signature	Month	Day	Year

WHITE–ORIGINAL (Return to Generator) YELLOW–TSDF (Retain Copy) PINK–TRANSPORTER COPY GOLDENROD-GENERATOR'S COPY

Icon Environmental Services, Inc.

WE ACCEPT VISA & MASTERCARD

REMIT TO:
P.O. Box 2407 UNION CITY, CA 94587-2407
(800) 499-3676 FAX (510) 476-1786
CAL 000 362 980

Bill of Lading
Invoice # 01670
Date 5-15-13

BILLING INFORMATION

NAME: Arcadis US Inc.
ADDRESS: 630 Plaza Dr # 600
CITY: Highlands Ranch STATE: CO ZIP: 80129
PHONE NO. ( )

JOB SITE

NAME: U.P.S.
ADDRESS: 8400 Pardee Dr.
CITY: Oakland STATE: CA ZIP: 94621
PHONE NO. ( )

PO # 8003839B-0017 CASH CHECK
CUSTOMER EPA ID #

PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Waste Flammable, Liquid N.O.S., 3 UN1993, PG III						
Non-RCRA Hazardous, Waste, Liquid						
Non-RCRA Hazardous, Waste, Solid						
Waste Corrosive Liquid, N.O.S., 8						
RCRA Hazardous Waste						
Non Hazardous Waste Liquid	X	12232	1200	G		
Non Hazardous Waste Solid						
Transportation Charges	X		10	HRS		
Additional Labor						
Pressure Washer						
Drum Setup Used / New	Metal / Poly	Size 55 / 30 / 15 / 5				
Empty Drum Disposal	Metal / Poly	Size 55 / 30 / 15 / 5				
Over Pack Drum	Metal / Poly	Size 95 / 85				
Drained Used Oil Filters						
Other:						

DISPOSAL/RECYCLING FACILITY:

TOTAL

NET 10 DAYS

[X] Icon Environmental Services
1220 Whipple Road, Union City, CA
CAL 000 369 026; 94587
(800) 499-3676

[ ] Ecology Control Industries
255 Parr Blvd., Richmond CA
CAD009466392; 94801
(310) 354-9999

[ ] US Ecology
HWY 95, 11 Miles S. of Beatty, Beatty, NV
NVD 048 946 016 89003
(775) 553-2203

[ ] DK Dixon
7300 Chevron Way, Dixon, CA
CAT 080 512 602; 95620
(707) 693-6008

[ ] AERC
30677 Huntwood Ave., Hayward, CA
(510) 429-1129; 94544

[ ] Commercial Filter Recycling
33210 Western Ave; Union City, CA
(510) 487-9227; 94587

[ ] East Bay MUD
2200 Wake Ave., Oakland, CA
(510) 313-8400; 94623

[ ] Crosby & Overton
1630 W. 17th St.; Long Beach, CA
CAD 028 409 019; 90183
(562) 432-5445

[ ]

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the waste has been disclosed. I certify that we have an established program to reduce the volume of waste to the degree to be economically practicable.

DRIVER SIGNATURE Tony Barreda

GENERATOR SIGNATURE

ARCADIS

Appendix E

UPS – Oakland Hub
HVE Field Notes

Site Visit Report

ARCADIS G&M Project Number:	Dates of Site Visit:
B0038398.0018	2/25/13
ARCADIS G&M Project Name:	**Location of Project:**
UPS Oakland	8400 Pardee Dr.
ARCADIS G&M Personnel Present:	**Other Persons Present:**
K. Firich	Icon Environmental

Purpose of Site Visit:

HVE Event

Date & Time:	Activities:
0640	Arrive Emeryville office to pick up equipment & field truck
0730	Berkeley shed- load more equipment onto truck
0830	Arrive at UPS Oakland H&S Tailgate, security check-in
0915	Begin setting up work station at MW-12 for extraction
	DTW: / DTP (Product) IW-1 6.50 / 5.65 IW-2 7.04 IW-3 5.90 MW-12 6.55 / 5.50 MW-13 4.61
1105	Phone calls to Arpen- working on setup
1115	Start running system, PID readings at MW-12 1115 = 0.2, 1200=0.2, 1400=1.1
1415	IW-1 DTW = 8.91 DTP = 8.00 275 gal of water extracted at MW-12
1430	Start extraction at IW-1
1500	PID reading = 0.2 at IW-1, hose length appx 25ft.
1600	Speak with Arpen- stop PID reading and Collect DTW at other wells

Weather: Sunny 50°

Signature & Date: Kari 2/25/13

Equipment billing submitted:_____

Date to accounting: _____

Site Visit Report

Date & Time:	Activities:
1615	MW-14 could not open
1630	MW-12 NO product. DTW = 8.62
1645	MW-8 DTW = 3.39
1655	Begin clean up. Stop running system. check IW-1
1700	DTW = 8.90 no solid beep but product on the probe. Begin extraction again with hose.
1720	check IW-1 again. Well is dry but residual product on probe.
1730	4.45 DTW in tank. 1100 gallons total Probe not working correctly (no solid beep for product)
1745	Empty Free Product drum and label as empty on-site
1800	off-site. Call Jennifer.
1830	Berkely Shed drop off
1915	Emeryville drop off and return truck.

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0645 ARCADIS Onsite
- locate 55 gal drums
- locate wells
- missing large socket to access wells - Home depot to purchase

0730 Set up exclusion zone
- retrieve 1 empty 55 gal drum

0750 Incorrect equipment - have water level meter, not interface probe
- sourced interface probe from emeryville
ARCADIS offsite to pick up interface probe

0925 ARCADIS onsite
Gauge wells
IW-1 - DTP - 5.64 ft DTW - 6.48 ft
TD - 9.29 ft - product is thick and black
MW-12 - DTP - 5.70 ft DTW - 5.95 ft
TD - 9.25 ft
MW-13 - DTW - 4.88 ft no product
IW-2 - DTW - 5.16 ft no product

0955 Sub-contractor Icon Environmental onsite
- Tailgate H&S

1020 Bail-down test at IW-1

1145 Bail-down test at MW-12

1230 ARCADIS & Sub offsite to get lunch

1300 ARCADIS and Sub-C onsite post lunch
- Communicate with PM & engineer to adjust tests and confirm resu
- Midday tailgate H&S meeting with Sub.
  - Increase size of exclusion zone
  - reposition vehicles
  - utilize hazard lights.
  - Stop work used to mitigate high volume heavy truck traffic
~1400 Gauge wells
MW-12 - DTP - 5.69 DTW - 5.85
MW-13 - DTW - 4.88
MIW-2 DTW - 5.16
IW-1 DTP - 5.74 DTW - 6.16
- Start Vac truck operations - IW-1
- build manifolds for all four wells
- IW-3 not monitored due to heavy truck traffic
- monitoring at IW-3 would close through traffic
1430 troubleshooting manifold leaks
1500 Vac-truck ~ 150 gallons
15' - record data for vac event

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1600 Vac-truck at ~ 350 gallons
- Per Arpan Shah - compute draw-down test at IW-1 after Vac-event at IW-1

1630 Vac-truck at ~ 500 gal

1730 MW-13 - DTW - 6.30 ft from top of manifold
IW-2 - DTW - 11.65 ft from top of manifold
- measured before initiation Vacuum in MW-12

1735 Begin extraction from MW-12

1900 Begin MW-12 draw-down test

1930 Icon Environmental offsite

1945 Breakdown / decon / cleanup

2015 ARCADIS offsite

Icon removed all Purgewater from 3 ARCADIS drums onsite before site exit.

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IW-1 Bail-down test

- Well bailed into std. 5 gal bucket
  - Total Product bailed = 0.08 ft
  - total Volume bailed = 0.52 ft

	Time	DTP [ft]	DTW [ft]
before bail →	0940	5.64	6.48
after bail	1023	5.85	5.95
↓	1025	5.85	5.99
	1027	5.82	6.01
	1030	5.81	6.01
	1035	5.80	6.03
	1038	5.80	6.04
	1042	5.80	6.05
↓	1044	5.80	6.06
	1050	5.79	6.09
	1055	5.79	6.11
	1100	5.78	6.12
	1106	5.78	6.15
	1116	5.77	6.17
	After bail-down test in MW-12		
↳	1400	5.74	6.16

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MW-12 bail-down test

- bailed into std. 5 gal bucket
- total product bailed - 0.08 ft
- total volume bailed - 0.23 ft

DTP - 5.70 ft DTW - 5.95 ft - before bai

time	DTP [ft]	DTW [ft]
1150	5.81	5.86
1152	5.78	5.84
1158	5.78	5.86
1202	5.75	5.86
1205	5.74	5.86
1208	5.75	5.86
1211	5.75	5.85
1217	5.74	5.85
~1400	5.69	5.95

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IW-1 - Second Draw-down test

- Post HUE
- measured at top of well casing

time	DTP	DTW
1652	8.40	8.42
1657	8.19	8.20
1702	8.13	8.14
1705	8.11	8.12
1709	8.10	8.12
1712	8.08	8.12
1715	8.07	8.12
1719	8.05	8.13
1723	8.04	8.13
1730	8.02	8.15

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Field personell Scott w emerson date 4/4/13

* DTP/DTW measured @ top of manifold not to top well casing

Extraction well IW-1 Monitoring well MW-12 Monitoring well MW-13 Monitoring well IW-2 Monitoring well N/A

Time	Casing Vacuum [in/Hg]	PID [ppm]	Truck Vacuum [in/Hg]	Casing vacuum [in/H20]	* DTP / DTW [ft]	Casing vacuum [in/H20]	* DTW [ft]	Casing vacuum [in/H20]	* DTW [ft]	Casing vacuum [in/H20]	DTW [ft]
1500	10.5	3.2	26.0	1.22	8.64 / 8.93	0.92	7.82	NA	6.09		
1530	7.0	7.3	18.5	0.85	8.86 / 9.17	0.84	6.31	0.19	11.48		
1600	7.0	2.3	21.0	0.82	8.99 / 9.1	0.87	6.31	0.14	11.56		
1615	7.0	1.5	21.0	0.76	9.06 / 9.34	0.87	6.35	0.60	11.58		
1635	7.0	2.1	24.0	0.84	9.14 / 9.4	0.86	6.36	0.50	11.61		

had to reconfigure IW-2 manifold

measured to top of manifold

UPS B003898.0018

Field personell Scott Wenning date 4/4/13

	Extraction well			Monitoring well		Monitoring well		Monitoring well		Monitoring well	
						MW-13		IW-2			
Time	Casing Vacuum [in/Hg]	PID [ppm]	Truck Vacuum [in/Hg]	Casing vacuum [in/H20]	DTP / DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]
1749	4.0	5.8	26.0	8.70	9.45 / 9.61	8.20	6.78	0.67	11.64		
1808	5.0	7.1	20.0	4.02	10.01 / 10.1	5.83	6.91	2.11	11.71		
1818	5.5	4.4	21.0	3.60	10.01 / 10.1	6.91	7.02	2.21	11.80		
1830	6.0	2.3	22.0	2.84	10.11 / 10.1	11.61	7.07	1.10	11.70		
1845	6.6	1.2	22.0	1.29	10.08	13.00	7.11	2.51	11.88		

IW-1 - dry no product
IW-1 - dry no product

5/15/13 UPS Oakland VTE event

0635 ARCADIS Onsite
Sign in with security
Call Angelene and michal and Jennifer
sign Yard rules
review H&SP

0700 ~~Open~~ Set up exclusion zone around IW-1, IW-2, MW-12, MW-13
- Open wells - not gaging all 17 wells, no time
- IW-3 located 20 feet outside of exclusion zone. Heavy truck traffic driving over IW-3
Call Jennifer - She wants to send out another person
Call Arpen - He recommend that the well does not need to be monitored
- Angelene returns phone call
- She does not want ARCADIS onsite after 4:30 pm and is concerned about our activities blocking traffic
- I recommend that IW-3 not be monitored to keep client happy and safety

0730 - ICON, Subcontractor, Onsite
- Sign in with guard shack
- tailgate H&S meeting
- Gauge wells - measured at Top of Casing

Well ID	DTP (ft)	DTW (ft)
IW-1	6.56	6.79
MW-12	6.09	6.51
MW-13	—	5.26
IW-2	—	5.21

0810 Begin Manifold Install and hose connection to truck
0830 record initial conditions
Speak to Hollis - confirms that we are not monitoring IW-3
0850 Begin lowering Stinger to depth in IW-1
0930 Close Bleeder Valve and begin recording data in FDS

1000 trouble shoot IW-2, no vaccuum
~ 1/8 tank of vac truck, 3000 gal tank
1115 ~ 3/16 Vac truck water tank level
3000 gal tank
~ extracted ~~pw~~ groundwater was initally dark brown/black then became lighter in color. at approx 1100 groundwater becam more brown/black again
1200 - Stop extracting from IW-1 switch to extraction from MW-12
Monitoring @ IW-1, IW-2 and MW-13
~ 3/16 Vac truck water level (3000 gal tank)
1230 - Begin recording FDS data
1300 - extracted groundwater dark brown becoming less turbid and water is extracted
IW-1 appears to be dry. Vacuum increases when the 1" PVC is closed from top of manifold otherwise no vaccum.
1500 ~ 1/4 Vac truck tank 3000 gal
- Ground water less turbid ~ opaque
1430 - OFFSITE total volume generated ~ 1200 gallons according to waste manifest

UPS Oakland

DTP/DTW measured from top of manifold

~~BP 262~~ ~~GP09BPNA.C125.G0000~~

Field personell Scott Wenning date 5/15/13

	Extraction well MW-12			Monitoring well EW-1		Monitoring well EW-2		Monitoring well MW-13		Monitoring well EW-3	
Time	Casing Vacuum [in/Hg]	PID [ppm]	Truck Vacuum [in/Hg]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]
1230	DTP=	9.62	DTW=9.86	—	9.60 / 9.61	—	6.49	—	6.24	—	—
1300	6.0	—	9.0	8.02	10.21 / 10.31	0.83	6.53	6.10	6.65	—	—
1330	10.0	425	9.0	10.14	10.29 / 10.35	8.84	6.60	7.86	6.85	—	—
1400	11.0	373	7.0	16.09	— / 10.31	0.71	6.68	8.80	6.89	—	—
1430	9.0	103	9.0	19.21	— / 10.31	0.41	6.72	8.84	6.91	—	—
1500	10.0	114	9.0	20.31	— / 10.31	0.72	6.83	7.68	6.99		
1530	7.0	91.9	9.0	22.91	— / 10.31	0.83	6.95	9.42	7.02		

- not monitored in traffic lane

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DTW/DTP measured from Top of Manifold

~~BP 282~~ ~~GP09BPNA.C125.C0000~~

Field personell Scott Wenning date 5/15/13

	Extraction well IW-1			Monitoring well MW-12		Monitoring well MW-13		Monitoring well IW-2		Monitoring well IW-3		
Time	Casing Vacuum [in/Hg]	PID [ppm]	Truck Vacuum [in/Hg]	Casing vacuum [in/H20]	DTP / DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	Casing vacuum [in/H20]	DTW [ft]	
0830	—	DTP=7.34	DTW=7.99		8.85 / 9.88	—	6.08	-	5.97	—	—	IW-3 in traffic lane in 45 feet from extraction well - no monitored
0930	6.0	20.1	6.0	1.39	8.90 / 9.86	0.69	6.22	0.07	6.10	—	—	
1000	12.5	74.8	9.0	1.88	9.20 / 9.83	0.97	6.26	0.09	6.14	—	—	
1030	14.5	162	9.0	1.60	9.55 / 10.05	1.05	6.24	1.04	6.30	—	—	
1100	15.0	182	9.0	1.73	9.81 / 10.05	1.10	6.27	0.55	6.36	—	—	
1130	16.6	218	9.0	1.80	9.91 / 10.10	1.21	6.28	0.28	6.40	—	—	
1200	16.0	227	9.0	1.64	9.95 / 10.14	1.06	6.30	0.27	6.42	—	—	