Mr. Keith Nowell
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Subject:
Second Semiannual 2016 Groundwater Monitoring Report
UPS Oakland Hub
8400 Pardee Drive, Oakland, CA 94621
Global ID #T0600100939
State ID #583
USEPA ID #CAD 09707509

Dear Mr. Nowell:

Attached please find the *Second Semiannual 2016 Groundwater Monitoring Report* for the above-referenced site (the Site). The report, which was prepared for United Parcel Service (UPS) by Arcadis U.S., Inc., presents the results of the semiannual groundwater monitoring event that was performed at the Site on August 18, 2016. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached *Second Semiannual 2016 Groundwater Monitoring Report* are true and correct.

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

Sincerely,

United Parcel Service

Mario Valdes

Mario Valdes
Remediation and Assessment Manager

Enclosure

ARCADIS Design & Consultancy for natural and built assets

SECOND SEMIANNUAL 2016 GROUNDWATER MONITORING REPORT

UPS Oakland Hub
8400 Pardee Drive
Oakland, California

September 23, 2016

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SECOND SEMIANNUAL 2016 GROUNDWATER MONITORING REPORT

UPS Oakland Hub
8400 Pardee Drive
Oakland, California

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Appendix A Groundwater Gauging and Sampling Logs

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ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
Arcadis	Arcadis U.S., Inc.
BTEX	benzene, toluene, ethylbenzene, and total xylenes
COCs	constituents-of-concern
ESL	environmental screening level
FP	free product
µg/L	micrograms per liter
MTBE	methyl tert-butyl ether
PAH	polycyclic aromatic hydrocarbon
RWQCB	Regional Water Quality Control Board
SGC	silica gel cleanup
TDS	total dissolved solids
TPH-DRO	total petroleum hydrocarbons as diesel range organics
TPH-GRO	total petroleum hydrocarbons as gasoline range organics
UPS	United Parcel Service
USEPA	United States Environmental Protection Agency

1 INTRODUCTION

On behalf of United Parcel Service (UPS), Arcadis U.S., Inc. (Arcadis) is submitting this Second Semiannual 2016 Groundwater Monitoring Report for the UPS Oakland Hub located at 8400 Pardee Drive in Oakland, California (the site; **Figure 1**). This report summarizes groundwater monitoring activities conducted on August 18 and 19, 2016, in accordance with the Corrective Action Plan (Arcadis 2011).

2 BACKGROUND

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

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

Detailed historical information has been provided in previous reports. A facility layout map and site map are included as **Figure 2** and **Figure 3**, respectively.

3 GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities were completed at the site on August 18, 2016. Depth to product, if present, and depth to water were measured in monitoring and injection wells prior to sample collection using an oil-water interface probe.

Groundwater samples were collected for laboratory analysis from twenty-one (21) monitoring wells MW-3, MW-4, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-23, MW-25, MW-26, MW-27, MW-28, and MW-29 and four (4) injection wells IW-3, IW-4, IW-5, and IW-6. Groundwater samples were not collected from monitoring wells MW-2, MW-12, MW-22, and MW-24, observation well OW-1, and injection wells IW-1 and IW-2 due to the presence of free product (FP).

Prior to sampling and while purging the monitoring wells, groundwater parameters (pH, temperature, turbidity, and conductivity) were monitored to evaluate stabilization. Samples were collected after three monitoring well casing volumes were removed or after the well dewatered. If a well dewatered, standard procedure was followed, which entailed allowing the monitoring well to recharge for at least two hours or to 80 percent of the initial casing volume, which ever scenario occurred first. Purge water was containerized in United States Department of Transportation-approved 55-gallon steel drum(s), sealed, and labeled. The purged water will be characterized and profiled for transportation for disposal. Information regarding the waste event will be provided in a subsequent submittal. Copies of the groundwater gauging and sampling logs are provided in **Appendix A**.

Groundwater samples collected during the sampling event were submitted to TestAmerica Laboratories, Inc. in Pleasanton, California, for analysis of the following constituents-of-concern (COCs):

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tert-butyl ether (MTBE); and naphthalene by United States Environmental Protection Agency (USEPA) Method 8260B
- Total petroleum hydrocarbons as diesel range organics (TPH-DRO) with and without silica gel cleanup (SGC) by USEPA Method 8015B
- Total petroleum hydrocarbons in the gasoline range organics (TPH-GRO) by USEPA Method 8260B/California Leaking Underground Fuel Tank
- Naphthalene by USEPA Method 8260 and USEPA Method 8270
- Polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270
- Dissolved methane by RSK-175
- Total dissolved solids (TDS) by SM2540

4 GROUNDWATER MONITORING RESULTS

The following subsections summarize the results of groundwater monitoring activities completed at the site during the reporting period.

4.1 Well Gauging Results

On August 18, 2016, groundwater elevations ranged from 0.86 foot amsl in monitoring well MW-10 to 6.94 feet amsl in monitoring well MW-9. Depth to groundwater ranged from 3.91 feet below ground surface (bgs) in monitoring well MW-8 to 8.82 ft bgs in monitoring well MW-10. During the monitoring event, measurable FP was detected in four monitoring wells (MW-2, MW-12, MW-22, and MW-24), one observation well (OW-1), and two injection wells (IW-1 and IW-2). Measurable FP thicknesses ranged from a minimum of 0.02 foot in monitoring wells MW-2 and MW-22 to a maximum of 0.34 foot in monitoring well MW-24. As of August 18, 2016 approximately 9.93 gallons of FP had been removed from the site; however, no FP was removed during this reporting period.

Historical groundwater gauging and elevation data are summarized in **Table 1**. A groundwater contour map prepared using groundwater elevation data and is presented as **Figure 4**. The direction of groundwater flow was generally to the southeast during the monitoring event with a northeast component caused by the former underground storage tank pit. The groundwater flow direction is generally consistent with historical data. Well gauging data are included in field documents provided in **Appendix A**.

4.2 Groundwater Sampling Results

Detected concentrations of COCs were compared to the California Regional Water Quality Control Board (RWQCB) San Francisco Bay Region Environmental Screening Levels (Tier 1 ESLs; RWQCB Feb. 2016). At the request of RWQCB, TPH-DRO was analyzed with and without SCG and naphthalene was

analyzed by USEPA Methods 8260 and 8270. The laboratory analytical results for the August 2016 groundwater monitoring event are summarized as follows:

- BTEX and MTBE were not detected at concentrations exceeding the drinking water RWQCB ESLs.
- TPH-GRO was detected at concentrations exceeding the RWQCB ESL of 100 micrograms per liter (µg/L) in monitoring wells MW-3 (270 µg/L), MW-8 (270 ug/L), and MW-21 (290 µg/L) and in injection wells IW-4 (400 µg/L), IW-5 (610 µg/L), and IW-6 (220 µg/L).
- TPH-DRO with SGC concentrations exceeded the drinking water RWQCB ESL of 100 µg/L in monitoring wells MW-3 (970 µg/L), MW-4 (670 µg/L), MW-19 (180 µg/L), MW-20 (130 µg/L), MW-21 (1,700 µg/L), MW-23 (1,400 µg/L), and MW-25 (1,300 µg/L) and in injection wells IW-4 (14,000 µg/L), IW-5 (50,000 µg/L), and IW-6 (1,200 µg/L). TPH-DRO results without silica gel cleanup are included in **Table 2**.
- Naphthalene, analyzed by USEPA Method 8270, was detected exceeding the drinking water RWQCB ESL of 0.12 µg/L in monitoring wells MW-3 (0.53 µg/L), MW-4 (0.36 µg/L), MW-8 (4.7 µg/L), MW-13 (0.13 µg/L), MW-19 (0.28 µg/L), MW-21 (0.86 µg/L), MW-23 (0.94 µg/L), MW-25 (240 µg/L), MW-28 (0.23 µg/L), and MW-29 (0.21 µg/L) and in injection wells IW-3 (0.20 µg/L), IW-4 (1 µg/L), IW-5 (3.6 µg/L), and IW-6 (0.33 µg/L).
- Fluorene was detected at concentrations exceeding the drinking water RWQCB ESL of 3.9 µg/L in monitoring wells MW-3 (4.3 µg/L), MW-25 (49 µg/L) and in injection well IW-5 (13 µg/L).
- Acenaphthene was detected at a concentration exceeding the drinking water RWQCB ESL of 20 µg/L in monitoring well MW-25 (57 µg/L).
- Anthracene was detected at a concentration exceeding the drinking water RWQCB ESL of 0.73 µg/L in monitoring well MW-25 (7.9 µg/L).
- Benzo(a)anthracene was detected at a concentration exceeding the drinking water RWQCB ESL of 0.027 µg/L in monitoring well MW-25 (2.4 µg/L).
- Chrysene was detected at a concentration exceeding the drinking water RWQCB ESL of 0.49 µg/L in monitoring well MW-25 (2 µg/L).
- Fluoranthene was detected at a concentration exceeding the drinking water RWQCB ESL of 8 µg/L in monitoring well MW-25 (21 µg/L).
- Phenanthrene was detected at a concentration exceeding the drinking water RWQCB ESL of 4.6 µg/L in monitoring well MW-25 (83 µg/L).
- Pyrene was detected at a concentration exceeding the drinking water RWQCB ESL of 2 µg/L in monitoring well MW-25 (10 µg/L).
- Dissolved methane was detected in all monitoring and injection wells that were sampled with concentrations ranging from 1,600 to 6,300 µg/L.

Analytical data for the August 18, 2016 sampling event are summarized in **Table 2** and **Table 3** and depicted on **Figure 5**. Laboratory analytical results and chain-of-custody documentation for the sampling event are included in **Appendix B**.

5 SUMMARY

The following is a summary of data and evaluations related to the groundwater monitoring activities completed during the reporting period:

- Local groundwater elevations ranged between 0.86 and 6.94 feet amsl. The apparent groundwater flow direction was generally to the southeast; however, exhibits a northeast component in the area of monitoring well MW-12. These observations are generally consistent with historical gauging data.
- Measurable FP was detected in four monitoring wells (MW-2, MW-12, MW-22, and MW-24), two injection wells (IW-1 and IW-2), and one observation well (OW-1) during the August 18, 2016, monitoring event. FP thicknesses ranged from 0.02 to 0.34 foot. Free product appears to be stable in thickness and wells present.
- Vapor phase methane was detected within the headspace of the monitoring and injection wells that were screened. The highest concentrations were detected at monitoring well MW-24 and ranged from 12.6 to 55.2 percent by volume (**Table 4**).
- BTEX and MTBE concentrations were not detected exceeding the RWQCB ESLs for drinking water.
- TPH-GRO was detected at concentrations exceeding the RWQCB ESL for drinking water in monitoring wells MW-3, MW-8, and MW-21 and in injection wells IW-4, IW-5, and IW-6.
- TPH-DRO with SGC was detected at concentrations exceeding the RWQCB ESL in monitoring wells MW-3, MW-4, MW-19, MW-20, MW-21, MW-23, and MW-25 and in injection wells IW-4, IW-5, and IW-6.
- Fluorene was detected at concentrations exceeding the RWQCB ESL in monitoring wells MW-3 and MW-25, and in injection well IW-5.
- Acenaphthene, anthracene, benzo(a)anthracene, chrysene, fluoranthene, phenanthrene and pyrene were detected exceeding their respectively RWQCB ESLs in monitoring well MW-25.
- Naphthalene, using USEPA Method 8270, was detected at concentrations exceeding the RWQCB ESL for drinking water in monitoring wells MW-3, MW-4, MW-8, MW-13, MW-19, MW-21, MW-23, MW-25, MW-28, and MW-29, and in injection wells IW-3, IW-4, IW-5, and IW-6.
- Dissolved phase concentrations are stable.

6 RECOMMENDATIONS

Arcadis will continue to perform groundwater monitoring on a semiannual basis at the site. Groundwater monitoring will continue to include monitoring for the presence of dissolved methane. Vapor phase methane readings will also be taken from the wellhead from monitoring ports using a portable personal air sampling pump or syringe and analyzed using a multi-gas meter fitted with a carbon filter. This additional data are being collected to evaluate the explosive hazard associated with the potential buildup of methane gas.

Because carbon filters cannot remove all hydrocarbon interferences, a scope of work is being developed to directly sample soil gas for methane with the installation of soil vapor probes. The locations that will be

targeted for the collection of soil gas samples will include the southwest side of the air express building and the northeast corner of the warehouse. These locations coincide with monitoring wells exhibiting FP; therefore, the soil gas data will be most reflective of the potential methane hazard related to the biogenesis process.

Arcadis will be conducting the additional subsurface investigation east of borings FPB-16 and FPB-17 (MW-26 and MW-27), north of borings FPB-18 and FPB-19 (MW-28 and MW-29), and south of boring FPB-8 (MW-19). These borings are being advanced to complete the tasks outlined in the July 2015 Work Plan and subsequent Field Investigation and Second Semiannual Groundwater Monitoring Report. Arcadis' goal is to fully characterize site conditions prior to recommending a path forward.

7 REFERENCES

Arcadis. 2011. Corrective Action Plan, UPS Oakland Hub, 8400 Pardee Drive, Oakland, California. December.

Arcadis. 2015. Field Investigation and Second Semiannual Groundwater Monitoring Report. November.

RWQCB. 2016. Environmental Screening Levels (http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml). February.

TABLES

Table 1
Historical Groundwater Elevation Summary
UPS Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

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	2.36	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
MW-1	7.43	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

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Global ID #T0600100939

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	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
		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	NA	NR
		6/19/1991	4.66	2.49	NA	NR
		7/23/1991	4.81	2.34	NA	NR
		8/26/1991	4.89	2.26	NA	NR
		11/18/1991	4.93	2.22	NA	NR
		2/3/1992	4.44	2.71	NA	NR
		6/29/1992	4.80	2.35	NA	NR
		6/23/1993	4.38	2.77	NA	NR
		10/11/1993	5.20	1.95	NA	NR
		1/4/1994	4.56	2.59	NA	NR
		5/10/1994	4.20	2.95	NA	NR
		2/1/1995	4.00	3.15	NA	NR
		8/2/1995	4.71	2.44	NA	NR
		10/16/1995	5.02	2.13	NA	NR
		12/28/1995	4.56	2.59	NA	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	2.25	0.08	NR
		2/12/2002	4.26	2.90	0.01	24.00
		9/3/2002	5.02	2.19	0.07	NR
		9/27/2002	4.89	2.34	0.09	222.30
		10/22/2002	5.11	2.08	0.05	125.00

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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	12/23/2002	4.25	2.93	0.04	99.00
		1/16/2003	4.28	2.89	0.02	49.00
		2/12/2003	4.26	2.90	0.01	24.00
		3/28/2003	4.35	2.81	0.01	25.00
		5/30/2003	3.60	3.57	0.02	49.00
		6/20/2003	4.55	2.61	0.01	NR
		7/14/2003	4.56	2.59	0.00	NR
		8/25/2003	4.79	2.37	0.01	25.00
		9/9/2003	4.90	2.26	0.01	NR
		9/25/2003	4.97	2.19	0.01	25.00
		10/28/2003	4.98	2.20	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	2.60	0.01	NR
		3/29/2004	4.24	2.92	0.01	NR
		4/19/2004	4.50	2.66	0.01	25.00
		5/20/2004	4.53	2.62	0.00	NR
		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	2.17	0.02	50.00
		10/25/2004	4.68	2.47	0.00	NR
		12/15/2004	4.34	2.83	0.02	50.00
		1/24/2005	4.15	3.00	0.00	NR
		2/23/2005	4.95	2.23	0.03	74.00
		3/23/2005	4.96	2.21	0.02	49.00
		4/29/2005	4.23	3.01	0.10	246.00
		5/27/2005	4.20	2.97	0.02	50.00
		6/29/2005	4.29	2.86	0.00	NR
		7/20/2005	4.48	2.70	0.04	98.00
		8/24/2005	4.71	2.44	0.00	NR
		9/27/2005	4.98	2.20	0.03	70.00
		10/19/2005	5.08	2.07	0.00	NR
		11/29/2005	4.68	2.48	0.01	NR
		12/29/2005	4.19	2.97	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	3.05	0.01	NR
		4/28/2006	4.03	3.12	0.00	NR
		6/27/2006	4.45	2.71	0.01	NR
		7/31/2006	4.60	2.57	0.02	NR
		8/29/2006	4.84	2.32	0.01	NR
		9/28/2006	4.96	2.22	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	2.95	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	2.86	0.01	NR
		4/26/2007	4.17	3.01	0.03	NR
		5/29/2007	4.42	2.74	0.01	25.00
		6/28/2007	5.16	2.00	0.01	25.00
		7/30/2007	4.71	2.44	0.00	NR
		8/30/2007	4.94	2.24	0.03	NR
		9/25/2007	5.06	2.10	0.01	25.00

Table 1
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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	10/29/2007	4.75	2.41	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	3.19	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	2.58	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	2.27	0.01	25.00
		9/30/2008	5.14	2.04	0.04	98.00
		10/31/2008	5.23	1.95	0.03	NR
		11/26/2008	4.74	2.44	0.04	NR
		12/30/2008	4.33	2.83	0.01	25.00
		1/22/2009	4.45	2.71	0.01	25.00
	9.63	5/5/2010	4.03	5.71	0.13	NR
		10/29/2010	4.98	4.72	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	4.92	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	4.55	0.01	591.47
		10/19/2011	4.77	4.87	0.01	591.47
		11/22/2011	4.92	4.72	0.01	532.32
		12/26/2011	4.92	4.72	0.01	532.32
		1/23/2012	5.20	4.67	0.28	561.83
		2/15/2012	5.16	4.50	0.03	591.40
		2/29/2012	4.75	4.90	0.02	NR
		3/19/2012	4.42	5.21	0.00	NR
		5/1/2012	4.18	5.48	0.03	532.32
		6/5/2012	4.61	5.03	0.01	NR
		7/3/2012	4.91	4.75	0.03	532.32
		8/1/2012	4.93	4.71	0.01	NR
		8/3/2012	4.985	4.69	0.05	591.47
		10/25/2012	5.49	4.16	0.02	5.0
		11/19/2012	5.21	4.42	0.00	25.0
		12/20/2012	5.76	3.88	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	4.65	0.01	5.0
		6/26/2013	5.23	4.40	0.00	NR
		7/22/2013	5.15	4.53	0.06	NR
		8/12/2013	5.15	4.50	0.02	0.0
		9/25/2013	5.13	4.50	0.00	0.0
		10/28/2013	5.39	4.25	0.01	5.0
		11/27/2013	5.20	4.45	0.02	NR
		12/27/2013	5.52	4.11	0.00	0.0
		1/29/2014	5.50	4.15	0.02	0.0
		2/5/2014	5.45	4.18	0.00	0.0
		3/28/2014	4.43	5.20	0.00	NR
		4/29/2014	4.71	4.94	0.02	5.0

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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	5/28/2014	4.69	4.94	0.00	NR
		6/27/2014	5.01	4.73	0.13	NR
		7/31/2014	4.99	4.71	0.08	0.0
		8/29/2014	5.30	4.35	0.02	NR
		9/23/2014	4.82	4.89	0.09	5.0
		10/22/2014	5.08	4.63	0.09	0.0
		12/29/2014	4.44	5.19	0.00	0.0
		1/30/2015	4.61	5.06	0.05	0.0
		2/5/2015	4.61	5.03	0.01	25
		9/1/2015	5.04	4.59	0.00	NR
		2/26/2016	4.21	5.42	sheen	NR
		8/18/2016	5.00	4.65	0.02	180
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):						5383.07
MW-2 Total product recovered:						7209.37
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

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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	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
		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	4.26	0.00	NR
		2/21/2008	2.41	5.01	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
		5/5/2010	3.13	4.31	0.02	NR
	9.89	10/29/2010	4.70	5.19	0.00	NR
		2/25/2011	1.54	8.37	0.02	NR
		6/14/2011	3.25	6.68	0.05	NR
		7/19/2011	3.53	6.38	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

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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	9.89	12/26/2011	4.70	5.19	sheen	532.32
		1/23/2012	4.11	5.79	0.01	532.26
		2/15/2012	4.90	5.01	0.02	591.40
		2/29/2012	4.14	5.78	0.03	NR
		3/19/2012	2.98	6.91	0.00	NR
		5/1/2012	2.91	6.99	0.01	532.32
		6/5/2012	3.80	6.09	0.00	NR
		7/3/2012	4.22	5.68	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	4.89	0.01	10.00
		6/26/2013	5.13	4.77	0.01	NR
		7/22/2013	5.48	4.41	0.00	NR
		8/12/2013	5.44	4.45	0.00	NR
		9/25/2013	5.50	4.39	0.00	NR
		10/28/2013	5.62	4.27	0.00	NR
		11/27/2013	5.67	4.24	0.02	2.00
		12/27/2013	5.80	4.11	0.02	2.00
		1/29/2014	5.90	4.03	0.05	NR
		2/5/2014	5.84	4.08	0.04	2.00
		3/28/2014	4.74	5.16	0.01	NR
		4/29/2014	4.12	5.77	0.00	NR
		5/28/2014	4.45	5.44	0.00	5.00
		6/27/2014	5.60	4.29	0.00	NR
		7/31/2014	4.74	5.15	0.00	NR
		8/29/2014	5.00	4.89	0.00	NR
		9/23/2014	5.20	4.69	0.00	NR
		10/22/2014	5.72	4.17	0.00	NR
		12/29/2014	3.58	6.31	0.00	NR
		1/30/2015	4.03	5.86	0.00	NR
		2/5/2015	4.22	5.67	0.00	NR
		9/1/2015	4.93	4.96	0.00	NR
		2/26/2016	3.96	5.94	0.01	NR
		8/18/2016	4.71	5.18	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):						6684.89
MW-3 Total product recovered:						6684.89
MW-4	9.77	5/5/2010	2.96	6.81	0.00	NR
		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	5.33	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	4.09	5.69	0.01	NR
		4/14/2013	NM	--	--	--
		5/15/2013	NM	--	--	--

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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	7/22/2013	5.10	4.67	0.00	NR
		8/12/2013	5.25	4.52	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	6.03	3.74	0.00	NR
		2/5/2014	5.64	4.13	0.00	NR
		3/28/2014	4.57	5.20	0.00	NR
		4/29/2014	3.98	5.79	0.00	NR
		5/28/2014	4.72	5.05	0.00	NR
		6/27/2014	4.37	5.40	0.00	NR
		7/31/2014	4.61	5.16	0.00	NR
		8/29/2014	4.84	4.93	0.00	NR
		9/23/2014	5.22	4.55	0.00	NR
		10/22/2014	5.25	4.52	0.00	NR
		12/29/2014	3.32	6.45	0.00	NR
		1/30/2015	3.98	5.79	0.00	NR
		2/5/2015	4.03	5.74	0.00	NR
		9/1/2015	4.80	4.97	0.00	NR
		10/14/2015	5.15	4.62	0.00	NR
		2/26/2016	3.79	5.98	0.00	NR
		8/18/2016	4.52	5.25	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	--	NM	--
		2/26/2013	3.38	4.84	0.00	NR
		4/14/2013	NM	--	NM	--
		5/15/2013	NM	--	NM	--
		7/22/2013	3.90	4.32	0.00	NR
		8/12/2013	4.08	4.14	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	4.73	3.49	0.00	NR
		2/5/2014	4.50	3.72	0.00	NR
		3/28/2014	3.34	4.88	0.00	NR
		4/29/2014	2.98	5.24	0.00	NR
		5/28/2014	3.20	5.02	0.00	NR
		6/27/2014	3.53	4.69	0.00	NR
		7/31/2014	3.76	4.46	0.00	NR
		8/29/2014	4.03	4.19	0.00	NR
		9/23/2014	4.02	4.20	0.00	NR
		10/22/2014	4.39	3.83	0.00	NR
		12/29/2014	3.87	4.35	0.00	NR
		1/30/2015	3.09	5.13	0.00	NR
		2/5/2015	3.36	4.86	0.00	NR
		9/1/2015	3.99	4.23	0.00	NR
		2/26/2016	2.95	5.27	0.00	NR
		3/30/2016	2.40	5.82	0.00	NR

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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-8	8.22	4/27/2016	2.64	5.58	0.00	NR
		5/31/2016	3.10	5.12	0.00	NR
		6/30/2016	3.46	4.76	0.00	NR
		7/28/2016	3.83	4.39	0.00	NR
		8/18/2016	3.91	4.31	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	--	NM	--
		2/26/2013	5.91	8.72	0.00	NR
		4/14/2013	NM	--	NM	--
		5/15/2013	NM	--	NM	--
		7/22/2013	6.13	8.50	0.00	NR
		8/12/2013	6.29	8.34	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
MW-9	11.10	1/29/2014	7.15	3.95	0.00	NR
		2/5/2014	6.80	4.30	0.00	NR
		3/28/2014	5.13	5.97	0.00	NR
		4/29/2014	5.68	5.42	0.00	NR
		5/28/2014	5.57	5.53	0.00	NR
		6/27/2014	6.01	5.09	0.00	NR
		7/31/2014	6.12	4.98	0.00	NR
		8/29/2014	6.38	4.72	0.00	NR
		9/23/2014	6.29	4.81	0.00	NR
		10/22/2014	7.15	3.95	0.00	NR
		12/29/2014	5.58	5.52	0.00	NR
		1/30/2015	5.62	5.48	0.00	NR
		2/5/2015	6.00	5.10	0.00	NR
		9/1/2015	6.25	4.85	0.00	NR
		10/14/2015	6.55	4.55	0.00	NR
		2/26/2016	5.72	5.38	0.00	NR
		3/30/2016	5.20	5.90	0.00	NR
		4/27/2016	5.01	6.09	0.00	NR
		5/31/2016	5.50	5.60	0.00	NR
		6/30/2016	3.96	7.14	0.00	NR
		7/28/2016	6.13	4.97	0.00	NR
		8/18/2016	4.16	6.94	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	1.35	0.01	NR
		2/25/2013	NM	--	NM	--
		2/26/2013	8.28	1.40	0.00	NR
		4/14/2013	NM	--	NM	--

Table 1
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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-10	9.68	5/15/2013	NM	--	NM	--
		7/22/2013	8.31	1.37	0.00	NR
		8/12/2013	8.64	1.04	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	9.43	0.25	0.00	NR
		2/5/2014	9.41	0.27	0.00	NR
		3/28/2014	8.18	1.50	0.00	NR
		4/29/2014	8.21	1.47	0.00	NR
		5/28/2014	5.59	4.09	0.00	NR
		6/27/2014	8.29	1.39	0.00	NR
		7/31/2014	8.31	1.37	0.00	NR
		8/29/2014	8.30	1.38	0.00	NR
		9/23/2014	NM	--	NM	--
		10/22/2014	8.29	1.39	0.00	NR
		12/29/2014	7.21	2.47	0.00	NR
		1/30/2015	7.88	1.80	0.00	NR
		2/5/2015	8.23	1.45	0.00	NR
		9/1/2015	8.27	1.41	0.00	NR
		2/26/2016	7.52	2.16	0.00	NR
		3/30/2016	6.39	3.29	0.00	NR
		4/27/2016	8.07	1.61	0.00	NR
		5/31/2016	7.66	2.02	0.00	NR
		6/30/2016	4.99	4.69	0.00	NR
		7/28/2016	8.43	1.25	0.00	NR
		8/18/2016	8.82	0.86	0.00	NR
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	3.34	0.01	NR
		2/25/2013	NM	--	NM	--
		2/26/2013	5.96	3.53	0.00	NR
		4/14/2013	NM	--	NM	--
		5/15/2013	NM	--	NM	--
		7/22/2013	6.05	3.44	0.00	NR
		8/12/2013	6.43	3.06	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	7.06	2.43	0.00	NR
		2/5/2014	6.98	2.51	0.00	NR
		3/28/2014	5.21	4.28	0.00	NR
		4/29/2014	5.43	4.06	0.00	NR
		5/28/2014	5.59	3.90	0.00	NR
		6/27/2014	5.84	3.65	0.00	NR
		7/31/2014	6.09	3.40	0.00	NR
		8/29/2014	6.30	3.19	0.00	NR
		9/23/2014	6.48	3.01	0.00	NR
		10/22/2014	6.03	3.46	0.00	NR
		12/29/2014	4.00	5.49	0.00	NR

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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	1/30/2015	5.44	4.05	0.00	NR
		2/5/2015	5.69	3.80	0.00	NR
		9/1/2015	6.27	3.22	0.00	NR
		10/14/2015	6.71	2.78	0.00	NR
		2/26/2016	5.04	4.46	0.01	NR
		3/30/2016	4.83	4.66	0.00	NR
		4/27/2016	4.89	4.60	0.00	NR
		5/31/2016	5.37	4.12	0.00	NR
		6/30/2016	5.31	4.18	0.00	NR
		7/28/2016	5.92	3.57	0.00	NR
		8/18/2016	6.14	3.35	0.00	NR
MW-12	9.43	3/19/2012	4.40	5.18	0.18	NR
		6/5/2012	6.31	3.73	0.72	NR
		8/1/2012	7.39	3.23	1.40	NR
		8/3/2012	7.15	3.39	1.30	NR
		10/25/2012	6.74	3.30	0.72	NR
		11/19/2012	6.45	3.66	0.80	NR
		12/20/2012	5.90	4.30	0.90	NR
		1/24/2013	6.53	3.91	1.19	725.00
		2/25/2013	6.55	3.77	1.05	ND
		2/26/2013	7.75	1.72	0.05	30.00
		4/14/2013	5.70	3.94	0.25	ND
		4/22/2013	6.27	3.55	0.46	278.00
		5/15/2013	6.51	3.28	0.42	ND
		5/30/2013	6.67	2.97	0.25	151.00
		6/26/2013	6.82	2.89	0.33	200.00
		7/22/2013	6.69	2.88	0.16	97.00
MW-12	9.43	8/12/2013	6.73	2.84	0.17	0.00
		9/25/2013	6.83	3.04	0.52	322.00
		10/28/2013	6.83	2.93	0.39	236.00
		11/27/2013	6.86	3.09	0.61	606.00
		12/27/2013	6.75	2.80	0.14	84.00
		1/29/2014	6.80	2.93	0.35	200.00
		2/5/2014	6.82	2.91	0.35	212.00
		3/28/2014	5.95	3.82	0.40	242.00
		4/29/2014	5.49	4.20	0.31	188.00
		5/28/2014	5.37	4.28	0.26	157.00
		6/27/2014	5.29	4.55	0.48	400.00
		7/31/2014	5.79	3.99	0.41	1009.00
		8/29/2014	5.80	3.84	0.25	151.00
		9/23/2014	6.00	3.74	0.37	275.00
		10/22/2014	6.04	3.72	0.39	300.00
		12/29/2014	4.94	4.63	0.16	NR
		1/30/2015	5.00	4.81	0.45	200
		2/5/2015	4.87	4.65	0.11	66
		9/1/2015	5.87	4.04	0.57	NR
		9/25/2015	6.21	3.82	0.71	NR
		2/26/2016	4.53	5.50	0.70	NR
		3/30/2016	4.57	4.86	0.00	NR
		4/27/2016	4.36	5.29	0.26	NR
		5/31/2016	4.75	4.81	0.15	NR
		6/30/2016	5.03	4.72	0.38	NR
		7/28/2016	5.51	4.35	0.50	NR
		8/18/2016	5.23	4.27	0.08	100.00
MW-12 Total product recovered:						6229.00
MW-13	9.10	3/19/2012	3.56	5.54	--	NR

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MW-13	9.10	6/5/2012	4.50	4.60	0.00	NR
		8/1/2012	5.15	3.96	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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	6.47	2.63	0.00	NR
		2/5/2014	5.80	3.30	0.00	NR
		3/28/2014	4.84	4.26	0.00	NR
		4/29/2014	4.35	4.75	0.00	NR
		5/28/2014	4.34	4.76	0.00	NR
		6/27/2014	4.58	4.52	0.00	NR
		7/31/2014	4.63	4.47	0.00	NR
		8/29/2014	4.86	4.24	0.00	NR
		9/23/2014	4.91	4.19	0.00	NR
		10/22/2014	4.99	4.11	0.00	NR
		12/29/2014	4.24	4.86	0.00	NR
		1/30/2015	4.07	5.03	0.00	NR
		2/5/2015	4.12	4.98	0.00	NR
		9/1/2015	4.61	4.49	0.00	NR
		2/26/2016	3.61	5.49	0.00	NR
		3/30/2016	3.83	5.27	0.00	NR
		4/27/2016	4.03	5.07	0.00	NR
		5/31/2016	3.33	5.77	0.00	NR
		6/30/2016	4.39	4.71	0.00	NR
		7/28/2016	4.34	4.76	0.00	NR
		8/18/2016	4.56	4.54	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	5.61	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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	5.38	3.91	0.00	NR
		2/5/2014	5.10	4.19	0.00	NR
		3/28/2014	1.64	7.65	0.00	NR
		4/29/2014	1.74	7.55	0.00	NR
		5/28/2014	3.09	6.20	0.00	NR
		6/27/2014	3.49	5.80	0.00	NR
		7/31/2014	3.92	5.37	0.00	NR
		8/29/2014	4.50	4.79	0.00	NR
		9/23/2014	5.49	3.80	0.00	NR
		10/22/2014	4.00	5.29	0.00	NR
		12/29/2014	1.68	7.61	0.00	NR

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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-14	9.29	1/30/2015	3.03	6.26	0.00	NR
		2/5/2015	3.29	6.00	0.00	NR
		9/1/2015	4.23	5.06	0.00	NR
		2/26/2016	1.82	7.47	0.00	NR
		3/30/2016	1.63	7.66	0.00	NR
		4/27/2016	0.74	8.55	0.00	NR
		5/31/2016	1.80	7.49	0.00	NR
		6/30/2016	NM	--	NM	NR
		7/28/2016	3.84	5.45	0.00	NR
		8/18/2016	3.99	5.30	0.00	NR
MW-15	9.44	9/1/2015	4.78	4.66	0.00	NR
		9/25/2015	5.00	4.44	0.00	NR
		10/14/2015	5.12	4.32	0.00	NR
		2/26/2016	3.81	5.63	0.00	NR
		3/30/2016	3.78	5.66	0.00	NR
		4/27/2016	3.13	6.31	0.00	NR
		5/31/2016	4.01	5.43	0.00	NR
		6/30/2016	4.34	5.10	0.00	NR
		7/28/2016	4.57	4.87	0.00	NR
		8/18/2016	4.71	4.73	0.00	NR
MW-16	9.57	9/1/2015	8.86	0.71	0.00	NR
		9/25/2015	7.18	2.39	0.00	NR
		10/14/2015	6.37	3.20	0.00	NR
		2/26/2016	2.71	6.86	0.00	NR
		3/30/2016	3.31	6.26	0.00	NR
		4/27/2016	3.50	6.07	0.00	NR
		5/31/2016	4.45	5.12	0.00	NR
		6/30/2016	4.79	4.78	0.00	NR
		7/28/2016	5.18	4.39	0.00	NR
		8/18/2016	5.32	4.25	0.00	NR
MW-17	9.02	9/1/2015	11.18	-2.16	0.00	NR
		9/25/2015	9.16	-0.14	0.00	NR
		2/26/2016	7.38	1.64	0.00	NR
		3/30/2016	4.20	4.82	0.00	NR
		4/27/2016	4.38	4.64	0.00	NR
		5/31/2016	7.62	1.40	0.00	NR
		6/30/2016	4.98	4.04	0.00	NR
		7/28/2016	7.62	1.40	0.00	NR
		8/18/2016	7.32	1.70	0.00	NR
MW-18	9.92	9/1/2015	8.24	1.68	0.00	NR
		9/25/2015	6.64	3.28	0.00	NR
		10/14/2015	6.31	3.61	0.00	NR
		2/26/2016	3.60	6.32	0.00	NR
		3/30/2016	2.98	6.94	0.00	NR
		4/27/2016	2.74	7.18	0.00	NR
		5/31/2016	3.98	5.94	0.00	NR
		6/30/2016	4.71	5.21	0.00	NR
		7/28/2016	4.94	4.98	0.00	NR
		8/18/2016	5.22	4.70	0.00	NR
MW-19	9.64	9/1/2015	8.75	0.89	0.00	NR
		9/25/2015	8.08	1.56	0.00	NR
		2/26/2016	2.54	7.10	0.00	NR
		3/30/2016	1.56	8.08	0.00	NR
		4/27/2016	0.81	8.83	0.00	NR
		5/31/2016	4.79	4.85	0.00	NR
		6/30/2016	4.70	4.94	0.00	NR
		7/28/2016	5.22	4.42	0.00	NR
		8/18/2016	5.47	4.17	0.00	NR

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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-20	9.69	9/1/2015	4.72	4.97	0.00	NR
		10/14/2015	5.12	4.57	0.00	NR
		2/26/2016	3.84	5.85	0.00	NR
		3/30/2016	3.44	6.25	0.00	NR
		4/27/2016	3.50	6.19	0.00	NR
		5/31/2016	3.93	5.76	0.00	NR
		6/30/2016	4.05	5.64	0.00	NR
		7/28/2016	4.40	5.29	0.00	NR
		8/18/2016	4.51	5.18	0.00	NR
MW-21	9.43	9/1/2015	4.57	4.86	0.00	NR
		2/26/2016	3.54	5.89	0.00	NR
		3/30/2016	2.89	6.54	0.00	NR
		4/27/2016	2.24	7.19	0.00	NR
		5/31/2016	4.16	5.27	0.00	NR
		6/30/2016	3.75	5.68	0.00	NR
		7/28/2016	4.32	5.11	0.00	NR
		8/18/2016	4.42	5.01	0.00	NR
MW-22	9.47	9/1/2015	4.87	4.60	0.00	NR
		10/14/2015	5.31	4.16	0.00	NR
		2/26/2016	3.83	5.64	0.00	NR
		3/30/2016	3.32	6.15	0.00	NR
		4/27/2016	2.97	6.50	0.00	NR
		5/31/2016	3.62	5.85	0.00	NR
		6/30/2016	4.32	5.15	0.19	NR
		7/28/2016	4.60	4.87	0.01	NR
		8/18/2016	4.8	4.69	0.02	50
MW-23	10.83	9/1/2015	6.79	4.04	0.00	NR
		9/25/2015	7.00	3.83	0.00	NR
		10/14/2015	7.11	3.72	0.00	NR
		2/26/2016	5.69	5.14	0.00	NR
		3/30/2016	5.10	5.73	0.00	NR
		4/27/2016	4.80	6.03	0.00	NR
		5/31/2016	5.80	5.03	0.00	NR
		6/30/2016	6.13	4.70	0.00	NR
		7/28/2016	6.49	4.34	0.00	NR
		8/18/2016	6.62	4.21	0.00	NR
MW-24	9.14	9/1/2015	5.12	4.02	0.00	NR
		9/25/2015	5.56	3.58	0.26	NR
		2/26/2016	4.00	5.14	0.50	NR
		3/30/2016	3.98	5.16	0.38	NR
		4/27/2016	3.70	5.44	0.00	NR
		5/31/2016	4.35	4.79	0.79	NR
		6/30/2016	4.75	4.39	0.61	NR
		7/28/2016	5.10	4.04	0.34	NR
		8/18/2016	5.24	4.19	0.34	250
MW-25	8.42	9/1/2015	5.81	2.61	0.00	NR
		2/26/2016	5.42	3.00	0.00	NR
		3/30/2016	5.02	3.40	0.00	NR
		4/27/2016	3.18	5.24	0.00	NR
		5/31/2016	5.73	2.69	0.00	NR
		6/30/2016	5.58	2.84	0.00	NR
		7/28/2016	5.74	2.68	0.00	NR
		8/18/2016	5.77	2.65	0.00	NR
MW-26	8.86	9/1/2015	4.97	3.89	0.00	NR
		9/25/2015	5.15	3.71	0.00	NR
		2/26/2016	3.54	5.32	0.00	NR
		3/30/2016	3.10	5.76	0.00	NR
		4/27/2016	3.20	5.66	0.00	NR

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MW-26	8.86	5/31/2016	3.29	5.57	0.00	NR
		6/30/2016	4.11	4.75	0.00	NR
		7/28/2016	4.49	4.37	0.00	NR
		8/18/2016	4.68	4.18	0.00	NR
MW-27	9.16	9/1/2015	4.70	4.46	0.00	NR
		9/25/2015	4.87	4.29	0.00	NR
		2/26/2016	3.30	5.86	0.00	NR
		3/30/2016	2.99	6.17	0.00	NR
		4/27/2016	3.01	6.15	0.00	NR
		5/31/2016	3.71	5.45	0.00	NR
		6/30/2016	4.14	5.02	0.00	NR
		7/28/2016	4.36	4.80	0.00	NR
		8/18/2016	4.53	4.63	0.00	NR
MW-28	11.52	9/1/2015	7.56	3.96	0.00	NR
		2/26/2016	7.34	4.18	0.00	NR
		3/30/2016	7	4.52	0.00	NR
		4/27/2016	8.8	2.72	0.00	NR
		5/31/2016	6.94	4.58	0.00	NR
		6/30/2016	6.13	5.39	0.00	NR
		7/28/2016	7.4	4.12	0.00	NR
		8/18/2016	7.38	4.14	0.00	NR
MW-29	10.38	9/1/2015	6.63	3.75	0.00	NR
		2/26/2016	6.16	4.22	0.00	NR
		3/30/2016	5.83	4.55	0.00	NR
		4/27/2016	6.64	3.74	0.00	NR
		5/31/2016	5.93	4.45	0.00	NR
		6/30/2016	NM	NC	NM	NR
		7/28/2016	NM	NC	NM	NR
		8/18/2016	6.4	3.98	0.00	NR
OW-1	NA	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
		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

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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	NA	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
		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
	9.55	5/5/2010	7.08	2.52	0.06	NR
		10/29/2010	7.37	2.25	0.08	NR
		2/25/2011	6.17	3.42	0.05	NR
		6/14/2011	6.78	2.84	0.08	0.00
		7/19/2011	7.30	2.42	0.20	118.29
		8/18/2011	7.35	2.23	0.03	147.87

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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	9/1/2011	7.35	2.23	0.03	147.87
		9/20/2011	7.41	2.17	0.04	591.47
		10/19/2011	7.42	2.16	0.03	532.32
		11/22/2011	7.09	2.49	0.03	29.57
		12/26/2011	7.32	2.25	0.02	147.87
		1/23/2012	6.90	2.91	0.30	532.26
		2/15/2012	7.32	2.25	0.02	591.40
		2/29/2012	7.54	2.08	0.08	NR
		3/19/2012	7.25	2.31	0.01	NR
		5/1/2012	7.14	2.42	0.01	532.32
		6/5/2012	8.55	1.01	0.01	NR
		7/3/2012	7.63	1.95	0.04	295.70
		8/1/2012	7.81	1.74	0.00	NR
		8/3/2012	7.50	2.17	0.14	591.47
		10/25/2012	7.34	2.23	0.02	5.0
		11/19/2012	7.26	2.46	0.20	10.0
		12/20/2012	6.93	2.65	0.03	5.0
		1/24/2013	6.89	2.69	0.03	10.0
		2/25/2013	NM	--	--	--
		2/26/2013	7.72	1.86	0.03	15.0
		4/14/2013	NM	--	--	--
		4/22/2013	7.68	1.90	0.03	15.0
		5/15/2013	NM	-	-	-
		5/30/2013	7.50	2.09	0.05	20.0
		6/26/2013	7.56	2.03	0.05	NR
		7/22/2013	7.84	1.80	0.10	5.0
		8/12/2013	7.55	2.01	0.01	NR
		9/25/2013	7.36	2.22	0.03	10.0
		10/28/2013	7.10	2.50	0.06	5.0
		11/27/2013	7.16	2.44	0.06	10.0
		12/27/2013	7.33	2.25	0.04	5.0
		1/29/2014	7.02	2.57	0.05	25.0
		2/5/2014	8.40	1.18	0.03	10.0
		3/28/2014	7.15	2.41	0.01	2.0
		4/29/2014	5.48	4.08	0.01	5.0
		5/28/2014	7.74	1.86	0.06	10.0
		6/27/2014	7.61	1.97	0.03	5.0
		7/31/2014	7.66	1.93	0.05	50.0
		8/29/2014	7.36	2.24	0.06	NR
		9/23/2014	7.25	2.34	0.05	5.0
		10/22/2014	7.83	1.73	0.01	0.0
		12/29/2014	7.34	2.21	0.00	NR
		1/30/2015	7.10	2.46	0.01	5.0
		2/5/2015	7.49	2.12	0.07	60
		9/1/2015	7.76	1.88	0.11	NR
		2/26/2016	7.13	2.50	0.09	NR
		3/30/2016	5.20	4.43	0.09	NR
		4/27/2016	7.46	2.23	0.16	NR
		5/31/2016	7.39	2.30	0.16	NR
		6/30/2016	7.50	2.22	0.20	NR
		7/28/2016	7.45	2.13	0.04	NR
		8/18/2016	7.6	2.00	0.06	600.00
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):						5150.41
OW-1 Total product recovered:						11094.09

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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-1	9.50	3/19/2012	4.38	5.12	0.00	NR
		6/5/2012	6.24	3.76	0.59	NR
		8/1/2012	7.29	3.26	1.23	NR
		8/3/2012	7.01	3.43	1.10	NR
		10/25/2012	7.05	3.30	1.00	NR
		11/19/2012	6.50	3.77	0.90	NR
		12/20/2012	5.85	4.28	0.74	NR
		1/24/2013	6.54	3.92	1.13	690.00
		2/25/2013	6.50	3.72	0.85	ND
		2/26/2013	8.72	1.55	0.91	550.00
		4/14/2013	5.64	4.57	0.84	ND
		4/22/2013	6.56	3.50	0.66	400.00
		5/15/2013	6.79	2.91	0.23	ND
		5/30/2013	6.93	2.97	0.47	284.00
		6/26/2013	6.98	2.98	0.54	327.00
		7/22/2013	6.89	2.92	0.36	218.00
		8/12/2013	6.95	3.07	0.61	370.00
		9/25/2013	6.73	3.05	0.33	205.00
		10/28/2013	6.76	2.94	0.24	145.00
		11/27/2013	6.80	3.19	0.58	351.00
		12/27/2013	6.71	2.99	0.24	145.00
		1/29/2014	6.69	2.93	0.14	150.00
		2/5/2014	6.69	2.90	0.11	66.00
		3/28/2014	5.64	4.02	0.19	115.00
		4/29/2014	5.31	4.23	0.05	30.00
		5/28/2014	5.20	4.39	0.10	60.00
		6/27/2014	5.64	4.09	0.27	180.00
		7/31/2014	5.70	3.99	0.22	542.00
IW-1	9.50	8/29/2014	5.77	3.85	0.14	NR
		9/23/2014	5.97	3.67	0.16	100.00
		10/22/2014	7.70	1.85	0.06	100.00
		12/29/2014	5.24	4.58	0.38	NR
		1/30/2015	5.10	4.49	0.10	20.00
		2/5/2015	5.15	4.62	0.32	844
		9/1/2015	6.05	4.04	0.69	NR
		2/26/2016	4.91	5.19	0.70	NR
		3/30/2016	4.69	5.49	0.80	NR
		4/27/2016	6.51	2.99	0.00	NR
		5/31/2016	5.43	4.57	0.59	NR
		6/30/2016	5.59	4.68	0.91	NR
		7/28/2016	6.02	4.32	0.99	NR
		8/18/2016	5.32	4.28	0.12	100
IW-1 Total product recovered:						5992.00
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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--

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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	12/27/2013	NM	--	NM	--
		1/29/2014	6.37	2.65	0.00	NR
		2/5/2014	6.05	2.97	0.00	NR
		3/28/2014	5.13	3.89	0.00	NR
		4/29/2014	4.63	4.39	0.00	NR
		5/28/2014	4.60	4.42	0.00	NR
		6/27/2014	4.94	4.08	0.00	NR
		7/31/2014	5.13	3.89	0.00	NR
		8/29/2014	5.31	3.71	0.00	NR
		9/23/2014	5.49	3.53	0.00	NR
		10/22/2014	5.60	3.46	0.05	25.00
		12/29/2014	4.88	4.14	0.00	NR
		1/30/2015	4.20	5.02	0.23	250.00
		2/5/2015	4.67	4.36	0.01	6.00
		9/1/2015	5.40	4.22	0.70	NR
		9/25/2015	5.78	3.54	0.35	NR
		2/26/2016	4.52	5.11	0.72	NR
		3/30/2016	4.01	5.22	0.25	NR
		4/27/2016	4.16	4.86	0.00	NR
		5/31/2016	5.60	3.86	0.52	NR
		6/30/2016	4.66	4.56	0.24	NR
		7/28/2016	5.04	4.13	0.18	NR
		8/18/2016	5.1	4.02	0.12	100
IW-2 Total product recovered:						381.00
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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	5.63	3.30	0.00	NR
		2/5/2014	5.83	3.10	0.00	NR
		3/28/2014	4.80	4.13	0.00	NR
		4/29/2014	4.24	4.69	0.00	NR
		5/28/2014	3.99	4.94	0.00	NR
		6/27/2014	4.33	4.60	0.00	NR
		7/31/2014	4.61	4.32	0.00	NR
		8/29/2014	4.86	4.07	0.00	NR
		9/23/2014	4.99	3.94	0.00	NR
		10/22/2014	5.01	3.92	0.00	NR
		12/29/2014	4.70	4.23	0.00	NR
		1/30/2015	4.70	4.23	0.00	NR
		2/5/2015	4.37	4.56	0.00	NR
		9/1/2015	4.80	4.13	0.00	NR
		2/26/2016	3.78	5.15	0.00	NR
		3/30/2016	3.02	5.91	0.00	NR
		4/27/2016	5.18	3.75	0.00	NR
		5/31/2016	3.64	5.29	0.00	NR
		6/30/2016	4.01	4.92	0.00	NR
		7/28/2016	4.58	4.35	0.00	NR

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IW-3	8.93	8/18/2016	4.69	4.24	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	5.33	0.01	NR
		2/25/2013	NM	--	--	--
		2/26/2013	4.29	5.68	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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	5.87	4.09	0.00	NR
		2/5/2014	6.86	3.10	0.00	NR
		3/28/2014	5.24	4.72	0.00	NR
		4/29/2014	4.19	5.77	0.00	NR
		5/28/2014	4.79	5.17	0.00	NR
		6/27/2014	5.04	4.92	0.00	NR
		7/31/2014	4.78	5.18	0.00	NR
IW-4	9.96	8/29/2014	5.02	4.94	0.00	NR
		9/23/2014	5.14	4.82	0.00	NR
		10/22/2014	5.29	4.67	0.00	NR
		12/29/2014	3.80	6.16	0.00	NR
		1/30/2015	4.49	5.47	0.00	NR
		2/5/2015	4.22	5.74	0.00	NR
		9/1/2015	4.97	4.99	0.00	NR
		9/25/2015	5.21	4.75	0.00	NR
		2/26/2016	3.98	5.98	0.00	NR
		3/30/2016	NM	--	NM	NR
		4/27/2016	3.47	6.49	0.00	NR
		5/31/2016	3.90	6.06	0.00	NR
		6/30/2016	4.25	5.71	0.00	NR
		7/28/2016	4.61	5.35	0.00	NR
		8/18/2016	4.71	5.25	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
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	6.15	3.73	0.00	NR
		2/5/2014	6.91	2.97	0.00	NR
		3/28/2014	5.13	4.75	0.00	NR
		4/29/2014	4.27	5.61	0.00	NR
		5/28/2014	4.44	5.44	0.00	NR
		6/27/2014	4.65	5.23	0.00	NR
		7/31/2014	4.88	5.00	0.00	NR
		8/29/2014	5.10	4.78	0.00	NR

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IW-5	9.88	9/23/2014	5.22	4.66	0.00	NR
		10/22/2014	4.79	5.09	0.00	NR
		12/29/2014	3.61	6.27	0.00	NR
		1/30/2015	4.11	5.77	0.00	NR
		2/5/2015	4.31	5.57	0.00	NR
		2/26/2016	4.07	5.81	0.00	NR
		3/30/2016	3.78	6.10	0.00	NR
		4/27/2016	3.03	6.85	0.00	NR
		5/31/2016	3.83	6.05	0.00	NR
		6/30/2016	4.34	5.54	0.00	NR
		7/28/2016	4.73	5.15	0.00	NR
		8/18/2016	4.81	5.07	0.00	NR
IW-6	9.67	9/1/2015	5.04	4.84	0.00	NR
		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	5.32	0.01	NR
		2/25/2013	NM	--	NM	--
		2/26/2013	4.10	5.57	0.00	NR
		4/14/2013	NM	--	NM	--
		5/15/2013	NM	--	NM	--
		7/22/2013	5.09	4.58	0.00	NR
		8/12/2013	5.23	4.44	0.00	NR
		9/25/2013	NM	--	NM	--
		10/28/2013	NM	--	NM	--
		11/27/2013	NM	--	NM	--
		12/27/2013	NM	--	NM	--
		1/29/2014	5.75	3.92	0.00	NR
		2/5/2014	5.55	4.12	0.00	NR
		3/28/2014	3.93	5.74	0.00	NR
		4/29/2014	3.71	5.96	0.00	NR
		5/28/2014	3.90	5.77	0.00	NR
IW-6	9.67	6/27/2014	4.54	5.13	0.00	NR
		7/31/2014	4.81	4.86	0.00	NR
		8/29/2014	5.00	4.67	0.00	NR
		9/23/2014	5.03	4.64	0.00	NR
		10/22/2014	4.78	4.89	0.00	NR
		12/29/2014	3.20	6.47	0.00	NR
		1/30/2015	4.04	5.63	0.00	NR
		2/5/2015	3.70	5.97	0.00	NR
		9/1/2015	4.96	4.71	0.00	NR
		2/26/2016	3.29	6.38	sheen	NR
		3/30/2016	3.57	6.10	0.00	NR
		4/27/2016	2.79	6.88	0.00	NR
		5/31/2016	3.05	6.62	0.00	NR
		6/30/2016	4.09	5.58	0.00	NR
		7/28/2016	4.58	5.09	0.00	NR
		8/18/2016	4.78	4.89	0.00	NR

Table 1
Historical Groundwater Elevation Summary
UPS Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Monitoring Well	Reference Elevation* (ft amsl)	Date	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)	Product Thickness (feet)	Volume of Product Recovered (mL)
Total product recovered from skimmers (MW-2, MW-3, and OW-1):						
Total product recovered prior to skimmer installation (mL):						7,770.0
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):						17,218.4
Total product recovered post-skimmer installation (oz):						582.0
Total product recovered post-skimmer installation (gal):						4.55
Total product recovered from wells without skimmers (mL):						12,602.0
Total product recovered from wells without skimmers (oz):						430.0
Total product recovered from wells without skimmers (gal):						3.36
Total product recovered (mL):						37,590.4
Total product recovered (oz):						1,271.0
Total product recovered (gal):						9.93

Notes:
* Reference elevation surveyed relative to mean sea level and California State Coordinate System, Zone III.
1. Volume of product recovered on 9/27/02 and 3/23/05 calculated based on measurements from field data sheets.
2. Corrected groundwater elevation = top of casing elevation - depth to water + (product thickness x 0.85)
3. Sources: Geraghty and Miller 1990; Blasland, Bouck & Lee 1996
-- = no data
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
gal = gallons
HVE = high vacuum extraction
mL = milliliters
oz = ounces
NA = not available
NC = not calculated
ND = not determined; due to the method used for HVE, a distinction could not be made between the volume of water and volume of product recovered
NM = not measured
NR = not recovered

Table 2
Groundwater Monitoring Results
UPS Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

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)	Conductivity (µS/cm)	Methane (µg/L)	Naphthalene (µg/L)	TDS (mg/L)
Field Analysis	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**5,000**	**--**	**--**	**3,000**
Tier 1 ESL	**--**	**1**	**40**	**12.6726**	**20**	**5**	**100**	**100**	**--**	**--**	**0.165158**	**--**
MW-3	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**270**	***14000 / 970****	2,231	3,700	**1.6**	1,300
MW-4	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	58	***8000 / 670****	1,877	6,300	**1.8**	1,300
MW-8	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**270**	**130 /** <49*	**9,654**	1,600	**7.7**	**5,100**
MW-9	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**160 /** <54*	**19,840**	8,000	<1.0	**14,000**
MW-10	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**200** / <52*	**11,320**	2,900	<1.0	**6300**
MW-11	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	63	**870 /** <52*	8,166	11,000	<1.0	**4,000**
MW-13	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**850 / <**51*	1,954	12,000	<1.0	1,400
MW-14	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	58 / <54*	9,803	8,700	<1.0	**5,900**
MW-15	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	54	**510** / <51*	**5,137**	4,300	<1.0	1,800
MW-16	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**430 /** <53*	10,340	9,700	<1.0	**5,300**
MW-17	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<52 / <52*	**12,540**	3,500	<1.0	**7,100**
MW-18	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***750 /** <51**	4,725	3,700	<1.0	**3,600**
MW-19	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**980 / 180***	9,086	6,400	<1.0	**5,200**
MW-20	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**4200 / 130***	4,681	5,900	<1.0	2,400
MW-21	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**290**	**7200 / 1700***	3,478	6,100	**1.3**	1,900
MW-23	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	78	**3400 / 1400***	2,351	9,900	**2.3**	1,700
MW-25	8/18/2016	<2.5	<2.5	<2.5	<5.0	<2.5	<250	**3700 / 1300***	4,260	3,800	**310**	2,300
MW-26	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**220 /** <51*	2,389	11,000	0.11	1,600
MW-27	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**590 /** <51*	3,249	6,900	<1.0	2,000
MW-28	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***1500 /** 66**	4,816	3500	<1.0	3,000
MW-29	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	***780 /** 75**	2,587	3500	<1.0	1,100
IW-3	8/19/2016	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**480 /** <53*	2,710	8,600	<1.0	1,900
IW-4	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**400**	***25000 / 14000****	2,195	5,400	**1.5**	1,400
IW-5	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**610**	***55000 / 50000****	2,450	5,400	**2.5**	1,600
IW-6	8/18/2016	<0.50	<0.50	<0.50	<1.0	<0.50	**220**	***4100 / 1200****	**15,810**	2,000	**1.2**	**12,000**

See notes on Page 2.

Table 2
Groundwater Monitoring Results
UPS Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Notes:
1. **Bold values indicate analytical detections above groundwater ESL.**
2. ESLs = Regional Water Quality Control Board Environmental Screening Levels for Environmental Concerns at Sites with Contaminated Soil and Groundwater INTERIM FINAL - February 2016, San Francisco Bay Region, California.

-- = no data
< = less than
ESL = environmental screening level
mg/L = milligrams per liter
µg/L = micrograms per liter
µS/cm = microSiemens per centimeter
MTBE = methyl tert-butyl ether
NM = not measured
NS = not sampled
TDS = total dissolved solids
TPH = total petroleum hydrocarbon
* = Analysis performed using Silica Gel Cleanup

Table 3
Groundwater Monitoring Results for PAHs
UPS Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Monitoring Well	Date	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)-anthracene (µg/L)	Benzo(b)-fluoranthene (µg/L)	Benzo(k)-fluoranthene (µg/L)	Benzo(g,h,i)-perylene (µg/L)	Benzo(a)-pyrene (µg/L)	Chrysene (µg/L)	Dibenz(a,h)-anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno-(1,2,3-c,d)pyrene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	Naphthalene (µg/L)
Tier 1 ESL	**--**	**20**	**30**	**0.73**	**0.027**	**0.035**	**0.049**	**0.1**	**0.014**	**0.049**	**0.011**	**8**	**3.9**	**0.049**	**4.6**	**2**	**0.12**
MW-1	4/3/2009	ABANDONED															
MW-3	8/18/2016	1.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**4.3**	<0.10	2.4	0.11	**0.53**
MW-4	8/18/2016	0.46	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.7	<0.10	0.12	<0.10	**0.36**
MW-8	8/18/2016	0.72	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.31	<0.10	0.14	<0.10	**4.70**
MW-9	8/19/2016	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-10	8/18/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-11	8/19/2016	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-13	8/19/2016	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.3	<0.10	<0.10	<0.10	**0.13**
MW-14	8/19/2016	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-15	8/18/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-16	8/19/2016	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
MW-17	8/18/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-18	8/18/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-19	8/19/2016	0.28	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.33	<0.10	0.28	<0.10	**0.28**
MW-20	8/19/2016	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098
MW-21	8/18/2016	1.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	5	<0.10	1.60	<0.10	**0.86**
MW-23	8/19/2016	0.75	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	1.3	<0.097	0.93	<0.097	**0.94**
MW-25	8/18/2016	**57**	<1.0	**7.9**	**2.4**	<1.0	<1.0	<1.0	<1.0	**2**	<1.0	**21**	**49**	<1.0	**83**	**10.0**	**240**
MW-26	8/19/2016	0.31	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.18	<0.10	0.26	<0.10	0.11
MW-27	8/19/2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-28	8/18/2016	0.49	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.17	0.21	<0.10	0.4	0.16	**0.23**
MW-29	8/18/2016	0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.21**
IW-3	8/19/2016	1.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.67	<0.10	0.38	<0.10	**0.20**
IW-4	8/18/2016	2.9	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.36	**6.4**	<0.20	2.1	0.47	**1**
IW-5	8/18/2016	7.2	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	**13**	<1.1	**9.3**	<1.1	**3.6**
IW-6	8/18/2016	0.71	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.5	<0.10	0.61	<0.10	**0.33**

Notes:
1. **Bold values indicate analytical detections above groundwater ESL.**
2. ESLs = Regional Water Quality Control Board Environmental Screening Levels for Environmental Concerns at Sites with Contaminated Soil and Groundwater INTERIM FINAL - February 2016, San Francisco Bay Region, CA
< = less than
ESL = environmental screening level
PAHs = polycyclic aromatic hydrocarbons
µg/L = micrograms per liter

Table 4
Wellhead Methane Screening Summary
UPS-Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Monitoring Well	Date	Depth to Groundwater (ft btoc)	Depth to SPH (ft btoc)	Depth to Screen (ft btoc)	Exposed Screen (ft)	Methane (%)
MW-12	9/1/2015	5.87	5.30	1.87	3.43	9.8
	9/25/2015	6.21	5.50		3.63	5.6
	10/30/2015	6.62	5.77		3.90	22.0
	11/25/2015	6.14	5.90		4.03	19.9
	12/31/2015	5.37	4.66		2.79	25.0
	1/29/2016	4.69	4.13		2.26	--
	2/26/2016	4.53	3.83		1.96	--
	3/30/2016	4.57	--		2.70	--
	4/27/2016	4.36	4.10		2.23	--
	5/31/2016	4.75	4.60		2.73	--
	6/30/2016	5.03	4.65		2.78	--
	7/28/2016	5.51	5.01		3.14	16.1
	8/18/2016	5.23	5.15		3.28	--
MW-15	9/1/2015	4.70	--	2.35	2.35	33.3
	9/25/2015	5.00	--		2.65	21.3
	10/30/2015	5.26	--		2.91	15.8
	11/25/2015	5.01	--		2.66	16.0
	12/31/2015	3.57	--		1.22	0.0
	1/29/2016	3.31	--		0.96	29.6
	2/26/2016	3.81	--		1.46	0.0
	3/30/2016	3.78	--		1.43	15.1
	4/27/2016	3.13	--		0.78	--
	5/31/2016	4.01	--		1.66	0.0
	6/30/2016	4.34	--		1.99	5.2
	7/28/2016	4.57	--		2.22	3.0
	8/18/2016	4.71	--		2.36	
MW-16	9/1/2015	9.02	--	2.40	6.62	28.7
	9/25/2015	7.18	--		4.78	19.5
	10/30/2015	6.17	--		3.77	4.1
	11/25/2015	4.22	--		1.82	5.0
	12/31/2015	3.74	--		1.34	3.3
	1/29/2016	3.19	--		0.79	--
	2/26/2016	2.71	--		0.31	--
	3/30/2016	3.31	--		0.91	--
	4/27/2016	3.50	--		1.10	4.6
	5/31/2016	4.45	--		2.05	3.8
	6/30/2016	4.79	--		2.39	10.3
	7/28/2016	5.18	--		2.78	11.5
	8/18/2016	5.32	--		2.92	--

Table 4
Wellhead Methane Screening Summary
UPS-Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Monitoring Well	Date	Depth to Groundwater (ft btoc)	Depth to SPH (ft btoc)	Depth to Screen (ft btoc)	Exposed Screen (ft)	Methane (%)
MW-17	9/1/2015	10.50	--	2.78	7.72	0.0
	9/25/2015	9.16	--		6.38	0.0
	10/30/2015	7.63	--		4.85	0.0
	11/25/2015	7.20	--		4.42	0.0
	12/31/2015	6.85	--		4.07	0.0
	1/29/2016	2.34	--		-0.44	--
	2/26/2016	7.38	--		4.60	0.0
	3/30/2016	4.20	--		1.42	0.0
	4/27/2016	4.38	--		1.60	0.0
	5/31/2016	7.62	--		4.84	0.0
	6/30/2016	4.98	--		2.20	0.00
	7/28/2016	7.62	--		4.84	0.0
	8/18/2016	7.32	--		4.54	--
MW-18	9/1/2015	9.14	--	2.50	6.64	15.4
	9/25/2015	6.64	--		4.14	1.6
	10/30/2015	6.30	--		3.80	0.0
	11/25/2015	4.80	--		2.30	0.0
	12/31/2015	4.27	--		1.77	0.0
	1/29/2016	3.21	--		0.71	--
	2/26/2016	3.60	--		1.10	0.0
	3/30/2016	2.98	--		0.48	--
	4/27/2016	2.74	--		0.24	--
	5/31/2016	3.98	--		1.48	0.0
	6/30/2016	4.71	--		2.21	5.0
	7/28/2016	4.94	--		2.44	2.1
	8/18/2016	5.22	--		2.72	--
MW-19	9/1/2015	7.25	--	2.96	4.29	1.4
	9/25/2015	8.08	--		5.12	1.7
	10/30/2015	7.42	--		4.46	0.8
	11/25/2015	7.29	--		4.33	1.0
	12/31/2015	6.30	--		3.34	0.0
	1/29/2016	1.82	--		-1.14	--
	2/26/2016	2.54	--		-0.42	--
	3/30/2016	1.56	--		-1.40	--
	4/27/2016	0.81	--		-2.15	--
	5/31/2016	4.79	--		1.83	0.0
	6/30/2016	4.70	--		1.74	0.3
	7/28/2016	5.22	--		2.26	0.0
	8/18/2016	5.47	--		2.51	--

Table 4
Wellhead Methane Screening Summary
UPS-Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

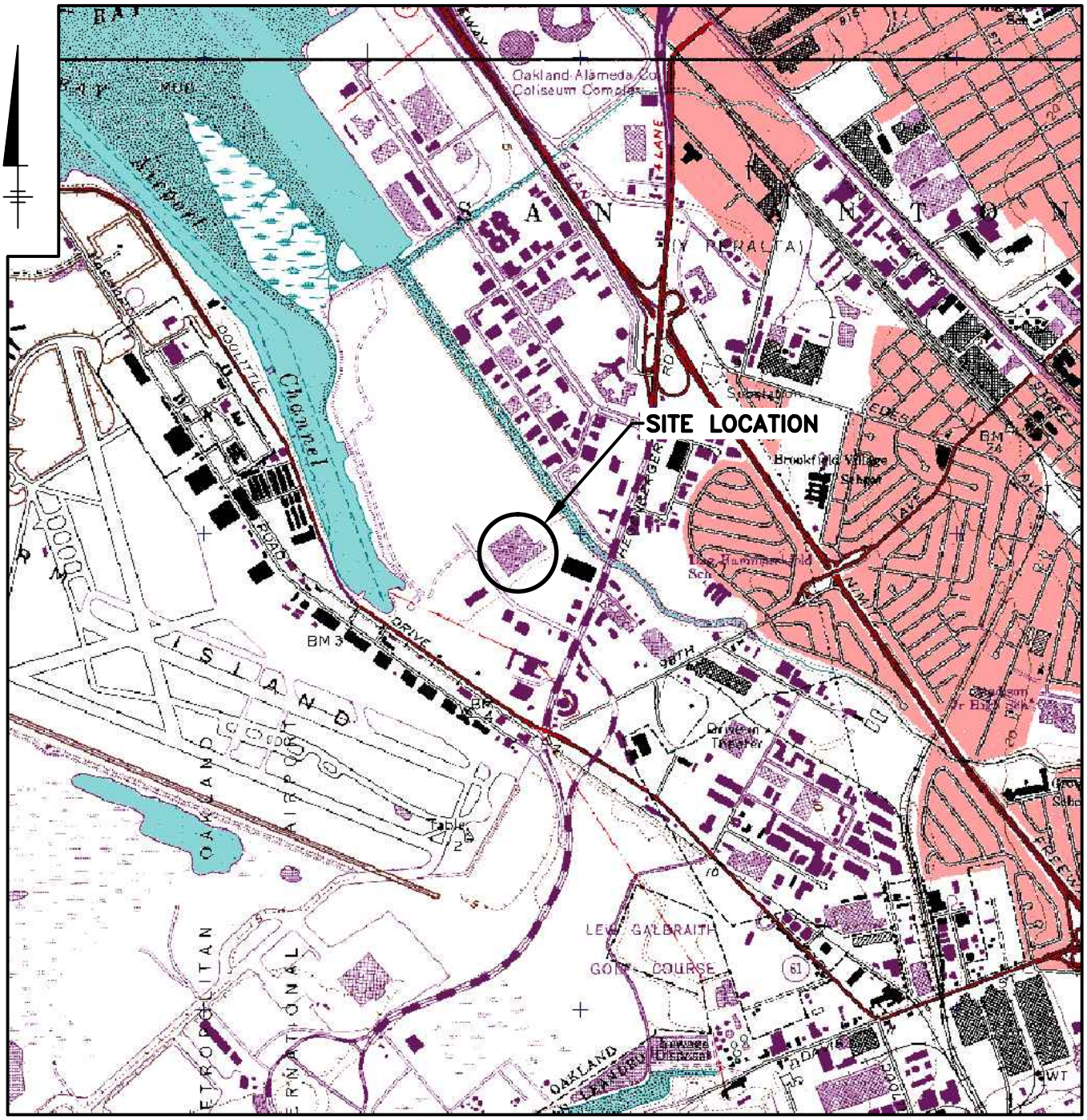
Monitoring Well	Date	Depth to Groundwater (ft btoc)	Depth to SPH (ft btoc)	Depth to Screen (ft btoc)	Exposed Screen (ft)	Methane (%)
MW-23	9/1/2015	7.70	--	2.65	5.05	35.0
	9/25/2015	7.00	--		4.35	31.8
	10/30/2015	7.28	--		4.63	29.5
	11/25/2015	7.12	--		4.47	33.0
	12/31/2015	6.35	--		3.70	22.9
	1/29/2016	5.04	--		2.39	32.3
	2/26/2016	5.69	--		3.04	20.0
	3/30/2016	5.10	--		2.45	21.3
	4/27/2016	4.80	--		2.15	25.2
	5/31/2016	5.80	--		3.15	26.5
	6/30/2016	6.13	--		3.48	32.0
	7/28/2016	6.49	--		3.84	33.3
	8/18/2016	6.62	--		3.97	--
MW-24	9/1/2015	4.99	--	1.90	3.09	55.2
	9/25/2015	5.56	--		3.66	36.8
	10/30/2015	6.03	5.56		3.66	14.2
	11/25/2015	5.89	5.46		3.56	12.6
	12/31/2015	5.15	5.02		3.12	16.4
	1/29/2016	4.32	4.12		2.22	41.1
	2/26/2016	4.00	3.5		1.60	24.8
	3/30/2016	3.98	3.6		1.70	32
	4/27/2016	3.70	--		1.80	31.4
	5/31/2016	4.35	3.56		1.66	26.2
	6/30/2016	4.75	4.41		2.51	45.0
	7/28/2016	5.10	4.76		2.86	49.5
	8/18/2016	5.24	4.9		3.00	--
MW-26	9/1/2015	4.83	--	2.90	1.93	17.9
	9/25/2015	5.15	--		2.25	19.5
	10/30/2015	5.41	--		2.51	16.7
	11/25/2015	5.20	--		2.30	17.3
	12/31/2015	5.12	--		2.22	16.1
	1/29/2016	3.41	--		0.51	--
	2/26/2016	3.54	--		0.64	--
	3/30/2016	3.10	--		0.20	--
	4/27/2016	3.20	--		0.30	--
	5/31/2016	3.29	--		0.39	--
	6/30/2016	4.11	--		1.21	29.0
	7/28/2016	4.49	--		1.59	26.9
	8/18/2016	4.68	--		1.78	--

Table 4
Wellhead Methane Screening Summary
UPS-Oakland Hub
8400 Pardee Drive, Oakland, California
Global ID #T0600100939

Monitoring Well	Date	Depth to Groundwater (ft btoc)	Depth to SPH (ft btoc)	Depth to Screen (ft btoc)	Exposed Screen (ft)	Methane (%)
MW-27	9/1/2015	4.60	--	2.73	1.87	20.1
	9/25/2015	4.87	--		2.14	6.5
	10/30/2015	5.11	--		2.38	6.0
	11/25/2015	5.08	--		2.35	7.5
	12/31/2015	4.20	--		1.47	4.9
	1/29/2016	3.71	--		0.98	4.9
	2/26/2016	3.30	--		0.57	--
	3/30/2016	2.99	--		0.26	--
	4/27/2016	3.01	--		0.28	--
	5/31/2016	3.71	--		0.98	--
	6/30/2016	4.14	--		1.41	13.6
	7/28/2016	4.36	--		1.63	9.6
	8/18/2016	4.53	--		1.80	--
IW-2	9/1/2015	5.40	4.70	2.00	2.70	0.8
	9/25/2015	5.78	5.43		3.43	0.0
	10/30/2015	6.08	5.63		3.63	0.2
	11/25/2015	5.91	5.50		3.50	0.0
	12/31/2015	4.56	4.16		2.16	6.9
	1/29/2016	4.13	--		2.13	0.0
	2/26/2016	4.52	3.80		1.80	0.1
	3/30/2016	4.01	3.76		1.76	0
	4/27/2016	4.16	--		2.16	0.0
	5/31/2016	5.60	5.08		3.08	--
	6/30/2016	4.66	4.42		2.42	7.3
	7/28/2016	5.04	4.86		2.86	5.2
	8/18/2016	5.1	4.98		2.98	--

Notes:
Wells purged of one case volume using a Gilair personal air sampling pump.
All screening results collected with an Landtec brand GEM 2000 portable gas monitor.
-- = no SPH detected
ft btoc = feet below top of casing
ft = feet
SPH = separate phase hydrocarbon

FIGURES



Source: USGS 7.5 Min. Topo. Quad., San Leandro, Calif. (1993)

0 2000' 4000'

APPROXIMATE SCALE: 1"=2000'

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

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

LEGEND

AREA OF CONCERN

PROPERTY BOUNDARY

UST UNDERGROUND STORAGE TANK

0 200' 400'

GRAPHIC SCALE

SOURCE: AERIAL PHOTOGRAPHY PROVIDED BY GOOGLE EARTH PRO.

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

FACILITY LAYOUT MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:TAMPA DIV/GROUP:ENV-141 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\ENVCAD\TAMPA\ACTIVE\00038398 UPS Oakland\GMR Aug 2016\B0038398_26_400-N02.dwg LAYOUT: 2 SAVED: 9/23/2016 4:47 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/23/2016 4:47 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 (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
- UST — UNDERGROUND STORAGE TANK

NOTE: SOIL BORING FPB–1, FPB–5, FPB–7 AND FPB–12 WERE ADVANCED IN AUGUST 2015.

0 50’ 100’

GRAPHIC SCALE

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

SITE MAP

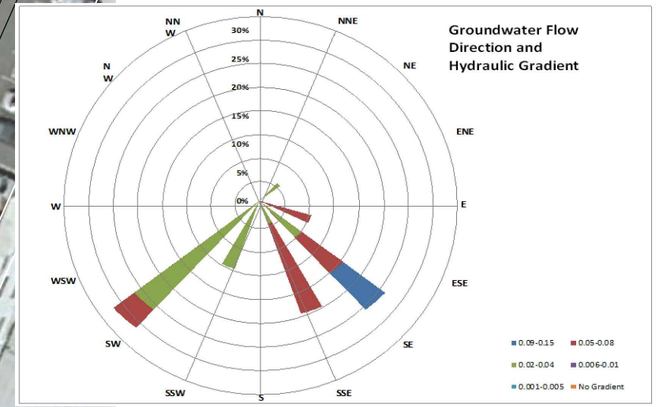
ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CITY:TAMPA DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\ENVCAD\TAMPA\ACTIVE\60038398 UPS Oakland\GMR Aug 2016\B0038398_26_400-B01.dwg LAYOUT: 3 SAVED: 9/23/2016 4:48 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/23/2016 4:48 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
- UST UNDERGROUND STORAGE TANK
- 3 — WATER-TABLE ELEVATION CONTOUR DASHED WHERE INFERRED CONTOUR INTERVAL = 1 FOOT
- (4.65) WATER-TABLE ELEVATION (FEET)
- APPARENT DIRECTION OF GROUNDWATER FLOW



0 50' 100'

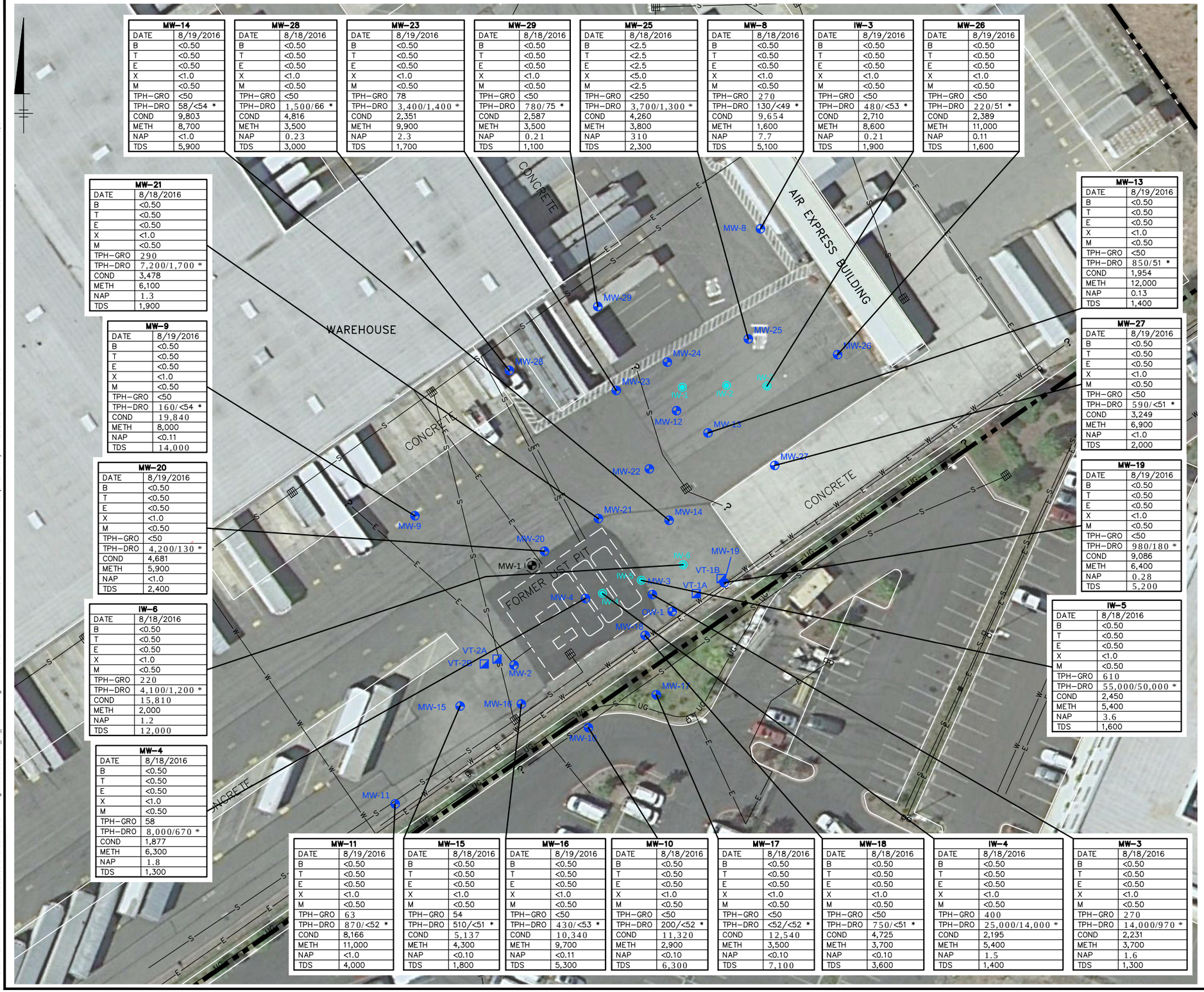
GRAPHIC SCALE

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

GROUNDWATER CONTOUR MAP AUGUST 18 AND 19, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4



MW-14	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	58/<54 *
COND	9,803
METH	8,700
NAP	<1.0
TDS	5,900

MW-28	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	1,500/66 *
COND	4,816
METH	3,500
NAP	0.23
TDS	3,000

MW-23	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	78
TPH-DRO	3,400/1,400 *
COND	2,351
METH	9,900
NAP	2.3
TDS	1,700

MW-29	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	780/75 *
COND	2,587
METH	3,500
NAP	0.21
TDS	1,100

MW-25	
DATE	8/18/2016
B	<2.5
T	<2.5
E	<2.5
X	<5.0
M	<2.5
TPH-GRO	<250
TPH-DRO	3,700/1,300 *
COND	4,260
METH	3,800
NAP	310
TDS	2,300

MW-8	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	270
TPH-DRO	130/<49 *
COND	9,654
METH	1,600
NAP	7.7
TDS	5,100

IW-3	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	480/<53 *
COND	2,710
METH	8,600
NAP	0.21
TDS	1,900

MW-26	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	220/51 *
COND	2,389
METH	11,000
NAP	0.11
TDS	1,600

MW-21	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	290
TPH-DRO	7,200/1,700 *
COND	3,478
METH	6,100
NAP	1.3
TDS	1,900

MW-9	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	160/<54 *
COND	19,840
METH	8,000
NAP	<0.11
TDS	14,000

MW-20	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	4,200/130 *
COND	4,681
METH	5,900
NAP	<1.0
TDS	2,400

IW-6	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	220
TPH-DRO	4,100/1,200 *
COND	15,810
METH	2,000
NAP	1.2
TDS	12,000

MW-4	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	58
TPH-DRO	8,000/670 *
COND	1,877
METH	6,300
NAP	1.8
TDS	1,300

MW-13	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	850/51 *
COND	1,954
METH	12,000
NAP	0.13
TDS	1,400

MW-27	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	590/<51 *
COND	3,249
METH	6,900
NAP	<1.0
TDS	2,000

MW-19	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	980/180 *
COND	9,086
METH	6,400
NAP	0.28
TDS	5,200

IW-5	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	610
TPH-DRO	55,000/50,000 *
COND	2,450
METH	5,400
NAP	3.6
TDS	1,600

MW-11	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	63
TPH-DRO	870/<52 *
COND	8,166
METH	11,000
NAP	<1.0
TDS	4,000

MW-15	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	54
TPH-DRO	510/<51 *
COND	5,137
METH	4,300
NAP	<0.10
TDS	1,800

MW-16	
DATE	8/19/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	430/<53 *
COND	10,340
METH	9,700
NAP	<0.11
TDS	5,300

MW-10	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	200/<52 *
COND	11,320
METH	2,900
NAP	<0.10
TDS	6,300

MW-17	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	<52/<52 *
COND	12,540
METH	3,500
NAP	<0.10
TDS	7,100

MW-18	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	<50
TPH-DRO	750/<51 *
COND	4,725
METH	3,700
NAP	<0.10
TDS	3,600

IW-4	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	400
TPH-DRO	25,000/14,000 *
COND	2,195
METH	5,400
NAP	1.5
TDS	1,400

MW-3	
DATE	8/18/2016
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPH-GRO	270
TPH-DRO	14,000/970 *
COND	2,231
METH	3,700
NAP	1.6
TDS	1,300

LEGEND

- MONITORING WELL
- TEMPORARY VACUUM TEST WELL
- PHASE I INJECTION WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARY
- CATCH BASIN/STORM DRAIN
- LIGHT POST/POWER POLE
- E — UNDERGROUND ELECTRICAL LINE
- S — STORM WATER/SEWER LINE
- W — WATER/FIRE SERVICE/IRRIGATION
- UG — ELECTRIC/WATER LINE
- UST — UNDERGROUND STORAGE TANK

SAMPLE LOCATION	
DATE	SAMPLE DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER
TPH-GRO	TOTAL PETROLEUM HYDROCARBON GASOLINE
TPH-DRO	TOTAL PETROLEUM HYDROCARBON DIESEL
COND	CONDUCTIVITY
METH	METHANE
NAP	NAPHTHALENE
TDS	TOTAL DISSOLVED SOLIDS

ALL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L), EXCEPT TDS REPORTED IN MILLIGRAMS PER LITER (mg/L) AND CONDUCTIVITY REPORTED IN MICROSIEMENS PER CENTIMETER (µS).

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

BOLD VALUES INDICATE THE CONCENTRATION EXCEEDS THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) ENVIRONMENTAL SCREENING LEVEL (ESL) FOR RESIDENTIAL PROPERTIES WHERE GROUNDWATER IS NOT A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER.

MONITORING WELL MW-12, OBSERVATION WELL OW-1, AND INJECTION WELLS IW-1 AND IW-2 NOT SAMPLED DUE TO MEASURABLE FREE PRODUCT.

3,700/1,100 * = TPH-DRO ANALYSIS PERFORMED WITHOUT AND WITH SILICA GEL CLEANUP

0 50' 100'

GRAPHIC SCALE

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

GROUNDWATER QUALITY MAP
AUGUST 18 AND 19, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE
5

APPENDIX A

Groundwater Gauging and Sampling Logs

WELL GAUGING DATA

Project # 160330-ND1 Date 3/30/16 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	1157	2		4.00	0.10		4.10	—		
MW-3	1215	2					4.09	14.49		
MW-4	1200	2					3.13	—		
MW-8	1030	2					2.40	12.23		
MW-9	1105	2					5.20	13.26		
MW-10	1015	2					6.39	12.26		
MW-11	1150	2					4.83	12.50		
MW-12	1219	2					4.57	9.03		MM
MW-13	1124	2					3.83	9.11		
MW-14	1120	2					1.63	9.27		
MW-15	1152	2					3.78	10.33		MM
MW-16	1156	2					3.31	10.39		
MW-17	1223	2					4.20	—		
MW-18	1205	2					2.98	10.55		
MW-19	1212	2					1.56	9.96		
MW-20	1040	2					3.44	11.57		
MW-21	1035	2					2.89	11.67		

WELL GAUGING DATA

Project # 160330-ND1 Date 3/30/16 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-22	1130	2					3.32	11.26		
MW-23	1053	2					5.10	11.57		MM
MW-24	1045	2		3.60	0.38		3.98	–		MM
MW-25	1038	2					5.02	11.56		
MW-26	1025	2					3.10	12.81		MM
MW-27	1110	2					2.99	12.84		MM
MW-28	1055	2					7.00	11.52		
MW-29	1056	2					5.83	–		
OW-1	1225	6		5.11	0.09		5.20	–		
IW-1	1230	2		3.89	0.80		4.69	–		
IW-2	1233	2		3.76	0.25		4.01	–		MM
IW-3	1115	2					3.02	9.13		
IW-4	Unable to access - Parked over by trailer									MM
IW-5	1236	2					3.78	–		
IW-6	1240	2					3.57	–		

WELL MONITORING DATA SHEET

Project #: 160330-ND1	Client: Arcadis
Sampler: ND	Date: 3/30/16
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 10.33	Depth to Water (DTW): 3.78
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
1300	(1)	case	volume =	2,289 mL		
	Purged	2500	mL w/ Gil	Air 5 (2000	mL/m)	
1302	Switched to	Gem 2000				
1310	Reading stabalized @			15.1%		

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 #: 160330-ND1	Client: Arcadis
Sampler: ND	Date: 3/30/16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.20
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
1313	(1)	Case volume =		2,543 mL		
1315	Purged	3,000 mL w/ GilAir 5		(2,000 mL/min)		
	Switched to Gem 2000					
1319	Reading stabalized @			0 %		

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 #: 160330-ND1	Client: Arcadis
Sampler: ND	Date: 3/30/16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 11.57	Depth to Water (DTW): 5.10
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]:	

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
1323	(1) case volume =			3,088 mL		
	Purged 4000 mL w/			GilAir5 (2000 mL/min)		
1325	Switch to Gem2000					
1328	Readings stabalized @			21.31.		

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 #: 160330-ND1	Client: Arcadis
Sampler: ND	Date: 3/30/16
Well I.D.: MW-24	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 3.98
Depth to Free Product: 3.60	Thickness of Free Product (feet): 0.38
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
1335	(1) case volume =			2,180 mL		
1337	Purged 2,500 mL w/			GilAir 5	(2000 ml/min)	
	Switched to Gem2000					
1345	Readings stabalized @			132.		

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 #: 160380-ND1	Client: Arcadis
Sampler: ND	Date: 3/30/16
Well I.D.: IW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.07
Depth to Free Product: 3.76	Thickness of Free Product (feet): 0.25
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
1348	(1) case volume = 2277 mL					
	Purged 2,500 mL w/ Gilian 5 (2000 ml/min)					
1352	Switched to Gem2000					
1400	Readings stabalized @			0		

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

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 3/30/16

Site Address 8400 Pardee Dr. - Oakland, CA

Job Number 160330-ND1 Technician ND

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	X						
MW-4	X							
MW-8	X							
MW-9	X	X						
MW-10	X							
MW-11	X							
MW-12	X							
MW-13						X		
MW-14	X	X						
MW-15						X		
MW-16		X						
MW-17	X							
MW-18	X							
MW-19	X	X						
MW-20	X							

NOTES: MW-13: 1/2 bolts missing
MW-15: 2/2 bolts stripped

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 3/30/16

Site Address 8400 Pardee Dr. - Oakland, CA

Job Number 160330-ND1 Technician ND

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-21	X							
MW-22							X	
MW-23	X	X						
MW-24	X	X						
MW-25	X							
MW-26	X							
MW-27	X	X						
MW-28	X							
MW-29	X							
OW-1	X							
IW-1	X							
IW-2						F		
IW-3	X	X						
IW-4	X							
IW-5	X							
IW-6	X							

NOTES: IW-2 : 1/2 bolts stripped
MW-22 : 1/2 bolt missing

WELL GAUGING DATA

Project # 160427-D57 Date 4-27-16 Client Arcadis

Site 8400 Pardee Ave, 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	1159	2	YES	3.34	0.15	-	3.49	-		
MW-3	1144	2	No				3.40	14.50		
MW-4	1155	2	NO				2.54	-		
MW-8	1231	2	NO				7.04	12.24		
MW-9	1234	2	No				5.01	13.26		
MW-10	1220	2	NO				8.07	12.25		
MW-11	1238	2	NO				4.89	12.50		
* MW-12	1240	2	Yes	4.10			4.36	9.03		MM
MW-13	1244	2	NO	~~4.10~~ DS			~~4.30~~ 4.03	9.10		
MW-14	1142	2	NO				0.74	9.27		
MW-15	1202	2	NO				3.13	10.33		MM
MW-16	1248	2	NO				3.50	10.38		MM
MW-17	1224	2	NO				~~4.37~~ 4.38	-		MM
MW-18	1254	2	NO				2.74	10.55		MM
MW-19	1148	2	NO				0.81	9.96		MM
MW-20	1250	2	NO				3.50	11.57		
MW-21	1206	2	No				2.24	11.06		

WELL GAUGING DATA

Project # 160427-DS2 Date 4-27-16 Client Arcadis

Site 8400 Pardee Ave. 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-22	1208	2	No				2.97	11.26		
MW-23	1211	2	No				4.80	14.58		May
MW-24	1215	2	No				3.70	10.80		mm
MW-25	1130	2	N				3.18	~~12.24~~ 11.56		
MW-26	1133	2	N				3.20	~~13.26~~ 12.81		mm
MW-27	1130	2	N				3.01	12.85		mm
MW-28	1255	2	No				8.80	11.50		
MW-29	1300	2	No				6.64	~~9.03~~ 9.00		
OW-1	1150	6	Yes	7.30	0.16		7.46	-		
IW-1	1308	2	No				6.81	-		
IW-2	1315	2	No				4.16	-		mm
IW-3	1302	2	No				5.18	9.13		
IW-4	1157	2	No				3.47	9.40		mm
IW-5	1152	2	No				3.03	-		
IW-6	1305	2	No				2.79	-		

WELL MONITORING DATA SHEET

Project #: 160427-DS2	Client: Arcadis
Sampler: DS	Date: 4-27-16
Well I.D.: MW-16	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD): 10.38	Depth to Water (DTW): 3.50
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
1350	(1)	case	volume	= 2119	≈ 2200 mL	
1353	purged	2200	mL	w/ Bil	Air (2000	mL/min)
	Switched	to	Gem5000			
1358	Reading		Stabilized	@	4.6% CH4	

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 #: 160427-DS2	Client: Arcadis
Sampler: DS	Date: 4-27-16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.38
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]:	

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
1415	(1)	case	volume	=2652mL		
1417	purged 2655 mL w/ gil Air (2000 mL/min)					
1419	suitend to Gem5000					
1423	Reading	stabilized @		0% CH4		

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 #: 160427-DS2	Client: Arcadis
Sampler: DS	Date: 4-27-16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 11.48	Depth to Water (DTW): 4.80
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
1430	(1) case	volume	= 2900	8 mL		
1432	purged	3000 mL	w/ gil	Air (2000 mL/min)		
1434	switched to Gem 5000					
143	Stabilized @	25.2 °C	Qty			

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 #: 160427-DS7	Client: Arcadis
Sampler: DS	Date: 4-27-16
Well I.D.: MW-24	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.60	Depth to Water (DTW): 3.70
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
1440	(1) Case volume = 2240mL					
1441	Purged 2300 mL w/ Air (2000mL/min)					
	switched to Gem500					
1446	Stabilized @ 31.4 % CH4					

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 #: 160427-052	Client: Arcadis
Sampler: DS	Date: 4-27-16
Well I.D.: JW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.16
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
1450	(1) case	volume = 2519.29 mL				
1452	purged	1 case volum = 2000 mL w/gil Air (2000 mL/min)				
	switched to GeoSub					
1455	Reading	stabilized @ 0% CH4				

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

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 4-27-16

Site Address 8400 Pardee Ave., Oakland CA

Job Number 160427-D32 Technician DS

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	✓							
MW-3	✓							
MW-4	✓							
MW-8	✓							
MW-9	✓							
MW-10	✓							
MW-11	✓							
MW-12	✓							
MW-13	✓							
MW-14	✓							
MW-15	✓							
MW-16	✓							
MW-17	✓							
MW-18	✓							
MW-19	✓							
MW-20	✓							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 4.27.16

Site Address 2400 Harder Ave, Oakland, CA

Job Number 160427-DSZ Technician PS

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-21	✓							
MW-22	✓							
MW-23	✓							
MW-24	✓							
MW-25	✓							
MW-26	✓							
MW-27	✓							
MW-28	✓							
MW-29	✓							
OW-1	✓							
IW-1	✓							
IW-2	✓							
IW-3	✓							
IW-4	✓							
IW-5	✓							
IW-6	✓							

NOTES:

WELL GAUGING DATA

Project # 160531-NDI Date 5/31/16 Client Arcadis

Site UPS Oakland - 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	1243	4		4.19	0.01		4.20	-		
MW-3	1420	4		4.03	0.01		4.04	-		
MW-4	1308	2					3.87	-		
MW-8	1155	2					3.10	-		
MW-9	1238	2					5.50	-		
MW-10	1130	2					7.66	-		
MW-11	1235	2					5.37	-		
MW-12	1340	2		4.60	0.15		4.75	-		MM
MW-13	1430	2					3.33	-		
MW-14	1313	2					1.80	-		
MW-15	1440	2					4.01	-		MM
MW-16	1245	2					4.45	-		MM
MW-17	1350	2					7.62	-		MM
MW-18	1355	2					3.98	-		MM
MW-19	1251	2					4.79	-		MM
MW-20	1435	2					3.93	-		
MW-21	1256	2					4.16	-		

WELL GAUGING DATA

Project # 160531-NDI Date 5/31/16 Client Arcadis

Site UPS Oakland - 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-22	1320	2					3.62	—	TOC	
MW-23	1220	2					5.80	—	TOC	MM
MW-24	1215	2		3.56	0.79		4.35	—	TOC	MM
MW-25	1410	2					5.73	—	TOC	
MW-26	1200	2					3.29	—	TOC	MM
MW-27	1150	2					3.71	—	TOC	MM
MW-28	1230	2					6.94	—		
MW-29	1210	2					5.93	—		
OW-1	1445	6		7.23	0.16		7.39	—		
IW-1	1300	2		4.84	0.59		5.43	—		
IW-2	1450	2		5.08	0.52		5.60	—		MM
IW-3	1145	2					3.64	—		
IW-4	1325	2					3.90	—		MM
IW-5	1455	2					3.83	—		
IW-6	1305	2					3.05	—		

WELL MONITORING DATA SHEET

Project #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.01
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
1 case volume = 2428						
Purged 3000 mL w/ GilAir 5 @ 2000 mL/min						
Switched to Gem 5000						
Methane readings stable @				0.0%		

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 #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-16	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.45
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
1 case volume = 2694 mL						
Purged 3000 mL w/ Gath Air 5						
Switch to Gem 5000						
Methane readings Stable @				3.8%		

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 #: 160531 - ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.62
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
1 case volume = 4614 mL						
Purged 5000 mL w/ 6il Air 5 @ 2000 ml/min						
Switched to Gem 5000						
Methane reading stable @ 10.0%						

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 #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-18	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): -	Depth to Water (DTW): 3.98
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
1 case volume =			2410 mL			
Purged 3000 mL			w/ Gil	Air 5 @	2000 ml	/min
Switch to Gem 5000						
Methane readings stable @				0.0%		

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 #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-19	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): –	Depth to Water (DTW): 4.79
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
1 case	volume =		2900 mL			
Purged	3000 mL	w/	Gil Air	5 @ 2000 ml/min		
Switch to	Gem 5000					
Methane	readings	stable @		10.0%		

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 #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): -	Depth to Water (DTW): 5.80
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
1 case	volume =	3512 mL				
Purged	4000 mL	w/ Gil Air 5 @ 2000 mL/min				
Switch	to Gem 5000					
Methane reading	stable	@	26.5			

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 #: 160531-ND2	Client: Arcadis
Sampler: ND	Date: 5/31/16
Well I.D.: MW-24	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.35
Depth to Free Product: 3.56	Thickness of Free Product (feet): 0.79
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
1 case volume = 2155 mL						
Purged 3000 mL	w/ Gil	Air 5 @	2000 ml/min			
Switched to Gem 5000						
Methane reading Stable @				26.2%		

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

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 5/31/16

Site Address 8400 Pardee Dr. - Oakland, CA

Job Number 160531-ND1 Technician ND

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							
MW-15						X		
MW-16	X							
MW-17	X							
MW-18	X							
MW-19	X							
MW-20	X							

NOTES: MW-8: 2/2 bolts stripped, MW-11: 2/2 bolts stripped
MW-15: 1/2 bolts stripped

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 5/31/16

Site Address 8400 Pardee Dr. - Oakland, CA

Job Number 160531-ND1 Technician ND

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-21	X							
MW-22	✓							
MW-23	X							
MW-24	X							
MW-25						X		
MW-26	X							
MW-27	X					X		
MW-28	X							
MW-29	X							
OW-1						X		
IW-1	X							
IW-2	X							
IW-3						X		
IW-4						X		
IW-5	X							
IW-6						X		

NOTES: IW-3: 2/2 bolts missing, MW-27: 1/2 tabs broken
IW-4: 2/2 tabs broken, 2/2 bolts missing, OW-1: 2/2 tabs broken
IW-6: 2/2 bolts, 1/2 tabs, MW-25: 1/2 bolts stripped

WELL GAUGING DATA

Project # 160630-DS2 Date 6-30-16 Client Arcadis

Site 8400 Pardee Ave 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	1246	2		4.71	.07		4.78	—		
MW-3	1251	2					4.24	14.49		
MW-4	1300	2						—		
MW-8	1253	2					3.46	12.23		
MW-9	1306	2					3.96	13.25		
MW-10	1255	2					4.99	12.26		
MW-11	1307	2					5.31	12.50		
MW-12	1331	2		4.65	.38		5.03	—		MM
MW-13	1316	2					4.39	9.11		
MW-14	*	well	flooded	over						
MW-15	1324	2					4.34	10.34		MM
MW-16	1327	2					4.79	10.40		
MW-17	1330	2					4.98	—		
MW-18	1321	2					4.71	10.55		
MW-19	1332	2					4.70	9.96		
MW-20	1320	2					4.05	11.56		
MW-21	1347	2					3.75	11.68		

WELL GAUGING DATA

Project # 160630-DS2 Date 6-30-16 Client Arcadis

Site 8400 Pardee Ave, 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-22	1338	2		4.13	.19		4.32	—		
MW-23	1309	2					6.13	11.57		MM
MW-24	1301	2		4.14	.61		4.75	—		MM
MW-25	1257	2					5.58	11.55		
MW-26	1249	2					4.11	12.80		MM
MW-27	1246	2					4.14	12.85		MM
MW28	1315	2					6.13	11.53		
MW29	*	well		formed	over					
OW-1	1337	2		7.30	.20		~~7.58~~ 7.50	~~7.50~~		
IW-1	1340	2		4.68	.91		5.59	—		
IW-2	1342	2		4.42	.24		4.66	—		MM
IW-3	1344	2		4.00	.01		4.01	—		
IW-4	1346	2					4.25	—		MM
IW-5	1349	2					4.34	—		
IW-6	1351	2					4.09	—		

WELL MONITORING DATA SHEET

Project #: 160630-052	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.34	Depth to Water (DTW): 4.34
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
1427	(1) Case Volume = 3.032 mL					
	Purge 4000 mL w/ gil Airs (200mL/min)					
1429	switched to Gen 2000					
1431	Reding stabilize @5.2					

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 #: 160630-052	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-16	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.40	Depth to Water (DTW): 4.79
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
1234	(1)	C.V. = 3396 mL				
		purge 4000 mL @ 3000 mL/min w/ grab Air				
1236		switched to gem 2000				
1239		Reading stabilized @ 10.3%				

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 #: 160630-DS1	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.98
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
1540		(1)	case volume =			
			purged 3000mL w/ gi Air @ 300mL/min			
1541		switched to generator				
1543		Reading stabilized @		0.0/.		

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 #: 160630-352	Client: Aradis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-18	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 105	Depth to Water (DTW): 4.71
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
1444	purged	(1) C.V.	@ 3535mL			
	purged 4000mL w/ qi1 Thr 200U (3000mL/min)					
1445	switched to qm8000					
1450	stabilized	@ 5.0%				

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 #: 160630-05	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-19	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.96	Depth to Water (DTW): 4.70
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
1251	(1)	C.V. = 3184 mL				
	purged 4000 mL		w/air @ 3000 mL/min			
1252	switched to gem2000					
1257	stabilized	@	0.3 %			

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 #: 160630-DS2	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 11.57	Depth to Water (DTW): 6.13
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
1259	(1) C.V. = 3293 mL					
	Purged 4,000 mL w gillAir @ 3000 mL/min					
1230	Switched to QM2000 (DS)					
	Reading stabilized @ ~~[illegible]~~ 32.0% (DS)					

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 #: 160630-DS2	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW 24	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.75
Depth to Free Product: 4.14	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
1505		(1) CV = 2375 mL				
purged 3000 mL w/ gilAir @ 300 mL/min						
1506 switched to gem2000						
1310 Reading stabilized @ ~~[illegible]~~ ¾ 45% (DS)						

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 #: 160630-DS2	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-26	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.80	Depth to Water (DTW): 4.11
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
1512		(1)	C.V. =	2,488 mL		
		purged	3000 mL	w/ silAir @	3000 mL/min	
1513		switched to	gam 2000			
1515		Reading	stabalized	@	~~93~~ DS	29 %

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 #: 160630-DS1	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: MW-27	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.85	Depth to Water (DTW): 4.14
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
1523		(1)	C.V. = 2507 mL			
			Purged 3000 mL w/ Air @ 3000 mL/min			
1524			switched to gem200			
1527			Reading stabilized @ 13.6%			

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 #: 160630-DS2	Client: Arcadis
Sampler: DS	Date: 6-30-16
Well I.D.: IW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.66
Depth to Free Product: 4.42	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
1529		(1)	C.V =	2821 mL		
		purged	3000 mL w/gilair @ 3000 ml/min			
1530		switched to	gem2000			
1534		Reading	stabilized @	7.3%		

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

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 6-30-16

Site Address 8400 Pardee Avenue, Oakland, CA

Job Number 160630-PS2 Technician PS

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					X		
MW-13	X					X		
MW-14	X							
MW-15	X							
MW-16	X							
MW-17	X							
MW-18	X							
MW-19	X							
MW-20	X							

NOTES: MW-12 & MW-13 (missing lid)

WELLHEAD INSPECTION CHECKLIST

Client Arcadis Date 6-30-16

Site Address 8400 Pardee Dr., Oakland, CA

Job Number 160630-DS2 Technician DS

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-21	X							
MW-22	X							
MW-23	X							
MW-24	X							
MW-25	X							
MW-26	X							
MW-27	X							
MW-28	X							
MW-29	X							
OW-1	X							
IW-1						X		
IW-2	X							
IW-3	X							
IW-4	X							
IW-5	X							
IW-6	X							

NOTES: IW-1 & 3 (-2 / 2 bolts)

WELL GAUGING DATA

Project # 160728-CH2 Date 7/28/16 Client AECOM

Site 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	1128	4		4.76	0.14	365	4.90	—		
MW-3	1140	2					4.54	14.50		
MW-4	1132	2					4.48	15.00		
MW-8	1112	2					3.83	12.20		
MW-9	1120	2					6.13	13.25		
MW-10	1247	2					8.43	12.25		
MW-11	1122	2					5.92	12.56		
MW-12	1152	2		5.01	0.50	360	5.51	—		
MW-13	1200	2					4.34	9.13		
MW-14	1147	2					3.84	9.26		
MW-15	1124	2					4.57	10.30		
MW-16	1126	2					5.18	10.37		
MW-17	1249	2					7.62	12.63		
MW-18	1138	2					4.94	10.54		
MW-19	1214	2					5.22	9.98		
MW-20	1134	2					4.40	11.55		
MW-21	1136	2					4.32	11.70		

WELL GAUGING DATA

Project # 110728-CU2 Date 7/28/11 Client ARCADIS

Site 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-22	1149	2	Sheen	~~Sheen~~ 4.59	0.01	0mL	4.60	—		
MW-23	1115	2					6.49	11.54		
MW-24	1210	2		4.76	0.34	250	5.10	—		
MW-25	1113	2					5.74	11.54		
MW-26	1110	2					4.49	12.83		
MW-27	1105	2					4.36	12.83		
MW-28	1118	2					7.40	11.50		
MW-29	TRAILER	PARKED	AREA.	NO	ACCESS		—	—		
OW-1	1215	6		7.41	0.04	250	7.45	—		
IW-1	1208	2		5.03	0.99	640	6.02	—		
IW-2	1204	2		4.86	0.18	150	~~5~~.04	—		
IW-3	1202	2					4.58	9.10		
IW-4	1146	2					4.61	9.50		
IW-5	1141	2					4.73	9.30		
IW-6	1144	2					4.58	9.31		

WELL MONITORING DATA SHEET

Project #: 160728-CM	Client: ARCADIS
Sampler: CM	Date: 7/28/16
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.90
Depth to Free Product: 4.76	Thickness of Free Product (feet): 0.14
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) MASTERFLEX

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
*	~365 m OF SPH BAILED W/ MASTERFLEX					
*	DEPLOY SKIMMER					

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 #: 170628.cm	Client: AREADIS
Sampler: CM	Date: 7/28/16
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.50	Depth to Water (DTW): 4.54
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
X	DEPLOY	SKIMMER				

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 #: 160729-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 5.51
Depth to Free Product: 5.01	Thickness of Free Product (feet): 0.50
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
1448	(1) CASE VOLUME =			3034 NTU		
1450	PURGED	3100 NTU @ 200 ml/min W/ GRAB				
1452	STABLE READING @			16.1 °/.	CLR	
X	~ 360 ml OF	SPH BAILED W/ MASTERFLEX				

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 #: 160728-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-15	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 4.57
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
1335	(1) CASE VOLUME = 2.67 m					
1338	PURGE	@	2000 m	@ 2000 m/min w/ GILAIR		
1340	STABLE READING			@ 3.0 l/	CH4	

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 #: 160720-C12	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-16	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 5.18
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
1350	(1) CASE VOLUME =			3137 mL		
1353	PURGED 320 mL @ 2000 mL/MIN				W/ GRAB	
1355	STABLE READING @ 11.5 °/.				CLEAR	

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 #: 160728-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.62
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
1310	(1) CASE VOLUME = 4615 ML					
1315	PURGE 4700 ML @			2000 ML/MIN W/ GIANT		
1320	STABLE @		0.0	CH4		

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 #: 160720.C02	Client: ARCADIS
Sampler: CK	Date: 7/20/16
Well I.D.: MW-1B	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 4.94
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
1401	(1) CASE VOLUME =			2992 mV		
1403	PURGED	700 mV	@ 2000 mV/M.V	W/ GLARE		
1405	STABLE READING	@	2.1 %	CH_4		

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 #: 160728.CER	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-19	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 5.22
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
1410	(1) CASE VOLUME			3161 mL		
1413	PURGED 3200 mL @			200 mL/min		W/ GRAB
1415	STABLE READING:			0.0 % CH4		

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 #: 160728-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 6.49
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
1442	(1) CASE VOLUME =			3930 mL		
1444	PURGED 4000 mL @ 2000 mL/min w/ GILAIR					
1446	STABLE READING @			33.3	CH4	

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 #: 160728.cm2	Client: ARCADIS
Sampler: CM	Date: 7/28/16
Well I.D.: MW-24	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 5.10
Depth to Free Product: 4.76	Thickness of Free Product (feet): 0.34
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
1435	(1) CASE VOLUME = 2893 mL					
1437	PURGED 2900 mL @ 2000 mL/MIN				W/ GILAIR	
1439	STABLE READING @			49.5	CH4	
*	~250 mL	SPL	BAILED	W/ MASTER	FLEX	

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 #: 160728-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-26	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.49
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
1427	(1) CASE VOLUME =			2720 mL		
1429	PURGED		2840 mL @	2000 mL/min	w/	GILAIR
1431	STABLE	READING @		26.9 °/.	CH4	

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 #: 160728-CK2	Client: AREADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-27	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.36
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
1420	(1) CASE VOLUME =			2660 mL		
1423	PURGED 2700 mL @			2000 mL/MIN	w/ GILAIR	
1425	STABLE READING @			9.6 %	CH4	

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 #: 160728-CK2	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 5.04
Depth to Free Product: 4.86	Thickness of Free Product (feet): 0.18
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
1454	(1) CASE VOLUME = 2943 ml					
1456	PURGED 3000 ml @ 2000 ml/min				W/ GLARE	
1458	STABLE READING =			5.2	CLR	
*	~150 ml OF		SPH BAILED W/ MASTER FLEX			

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 #: 160728-CM	Client: ARCADIS
Sampler: CM	Date: 7/28/16
Well I.D.: OW-1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.45
Depth to Free Product: 7.41	Thickness of Free Product (feet): 0.04
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 MASTERFLEX

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
~	~250		OF SPH	BAILED W/	MASTERFLEX	
~	DEPLOY	SYSMMER				

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 #: 160728-CK1	Client: ARCADIS
Sampler: CK	Date: 7/28/16
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 6.02
Depth to Free Product: 5.03	Thickness of Free Product (feet): 0.99
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) MASTERFLEX

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
X	~640 mL	OF SPH	BAILED	W/	MASTERFLEX	

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

WELLHEAD INSPECTION CHECKLIST

Client AREADIS Date 7/26/11

Site Address 8400 PARDEE DR, OAKLAND

Job Number 160726-cm2 Technician CL

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		
MW-15	X							
MW-16	X							
MW-17	X							
MW-18	X							
MW-19	X							
MW-20	X							

NOTES: MW-9 = 1/2 bolts missing; MW-11 = 2/2 tabs stripped; MW-2 = 2/2 bolts missing; MW-3 = 2/2 tabs stripped, well cap crushed; MW-14 = 2/2 tabs stripped; MW-12 = 1/2 bolts missing; MW-13 = 2/2 bolts missing, wrong wellbox lid;

WELL GAUGING DATA

Project # 160919-OK1 Date 9/19/16 Client ARCADIS

Site 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	0952	4	odor	4.98	0.02	180	5.00	—		SKIMMER
MW-3	1029	4					4.71	14.50		SKIMMER
MW-4	1012	2					4.52	15.80		
MW-8	0951	2					3.91	12.18		
MW-9	1021	2					4.16	13.26		
MW-10	1030	2					8.82	12.24		
MW-11	0957	2					6.14	12.54		
MW-12	1003	2	odor	5.15	0.09	100	5.23	—		
MW-13	1014	2					4.56	9.12		
MW-14	1003	2					3.99	9.25		
MW-15	1001	2					4.71	10.30		
MW-16	1004	2					5.32	10.35		
MW-17	1034	2					7.32	12.43		
MW-18	1007	2					5.22	10.52		
MW-19	1005	2					5.47	9.98		
MW-20	1017	2					4.51	11.54		
MW-21	0959	2					4.42	11.70		

WELL GAUGING DATA

Project # 160819-CK1 Date 8/18/16 Client ARCADIS

Site 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-22	0957	2	ODOR	4.78	0.02	50	4.80	—		
MW-23	0955	2					6.62	11.52		
MW-24	1024	2	ODOR	4.90	0.34	250	5.24	—		
MW-25	1011	2					5.77	11.54		
MW-26	0949	2					4.68	12.02		
MW-27	1007	2					4.53	12.03		
MW-28	0957	2	ODOR				7.38	11.48		
MW-29	0953	2					6.40	11.64		
OW-1	0945	6	ODOR	7.54	0.06	600	7.60	—		SHEEN
IW-1	1010	2	ODOR	5.20	0.12	100	5.32	—		
IW-2	1014	2	ODOR	4.98	0.12	100	5.10	—		
IW-3	1009	2					4.69	9.11		
IW-4	1010	2					4.71	9.50		
IW-5	1026	2					4.81	9.29		
IW-6	1001	2					4.78	9.30		

METHANE MONITORING

Client ARCADIS Date 8/12/16

Site Address 8400 PARDEE DR, OAKLAND

Job Number 160819-CH1 Technician CK

Well ID	DTW	2000 mL/MIN 34 mL/SEC	1 CV (mL)	SECONDS PURGED	VOLUME PURGED (mL)	CH_4 (%)	TIME	
MW-12	5.15	✓	3119	94	3200	4.0	1111	
MW-17	7.32	✓	4433	133	4500	0.1	1158	
IW-2	4.98	✓	3016	92	3100	8.2	1106	
MW-24	4.90	✓	2967	89	3000	35.3	1051	
MW-26	4.68	✓	2834	89	3000	22.3	1045	
MW-27	4.53	✓	2743	83	2800	0.8	1118	
MW-23	6.62	✓	4009	121	4100	30.4	1058	
MW-19	5.47	✓	3313	100	3400	0.0	1124	
MW-15	4.71	✓	2852	86	2900	3.8	1139	
MW-16	5.32	✓	3222	98	3300	10.8	1131	
MW-18	5.22	✓	3161	94	3200	0.0	1147	

NOTES: * PUREE RATE = 2000 mL/MIN OR 34 mL/SEC

WELL MONITORING DATA SHEET

Project #: 160612-CM	Client: AREAS
Sampler: CM	Date: 8/19/16
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 5.03
Depth to Free Product: 4.98	Thickness of Free Product (feet): 0.02
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	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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
*	EMPTY	SKIMMER ~150 ml SPH		REMOVED		
X	BAIL	PRODUCT FROM WELL W/		MASTERFLEX.		
	@ ~~1240~~	~30 ml SPH		REMOVED		
	TOTAL PRODUCT REMOVED ~180 ml					

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 #: 160218.CK1	Client: ARCADIS
Sampler: CK	Date: 8/18/16
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.50	Depth to Water (DTW): 4.71
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]: 6.67	

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:_____

6.4 (Gals.) X	3	= 19.2 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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1315	26.5	7.00	2231	64	6.5	YELLOW / ODOR
	DEWATERED	@ 7.5 gal	-		7.5	
1340	26.6	6.93	2198	58	—	YELLOW / ODOR

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

Sampling Date: 8/18/16 Sampling Time: 1340 Depth to Water: 4.75

Sample I.D.: MW-3 Laboratory: Kiff CalScience Other: TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 15.80	Depth to Water (DTW): 4.71
Depth to Free Product: —	Thickness of Free Product (feet): ~~6.93~~ OR
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.93	

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 ___

1.8 (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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1313	24.2	7.25	2018	48	1.8	clear
1318	25.0	6.86	1858	44	3.6	↓
1323	26.1	6.82	1877	42	5.4	↓

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

Sampling Date: 8/18/16 Sampling Time: 1332 Depth to Water: 4.75

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other TA-SF

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

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 #: 160818 - CK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.18	Depth to Water (DTW): 3.91
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]: 5.56	

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: ___

1.3 (Gals.) X	3	= 3.9 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
1147	24.7	6.68	3118	17	1.5	
1149	23.7	6.75	5748	13	3.0	
1152	22.4	6.82	9654	28	4.5	
1154	←	well	dewatered	@	4.8	

Did well dewater? (Yes) No Gallons actually evacuated: 4.8

Sampling Date: 8/18/16 Sampling Time: 1415 Depth to Water: 9.54 (>2hrs)

Sample I.D.: MW-8 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 13.26	Depth to Water (DTW): 4.16
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]: 5.98	

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:_____

1.5 (Gals.) X	3	= 4.5 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
1138	26.7	6.52	10.67	28	1.5	clear
1142	29.9	6.35	16.88	9	3.0	
1145	dewatered	at 3.4	gal			
1100	23.3	7.03	19.24	27	—	clear

Did well dewater? (Yes) No Gallons actually evacuated: 3.4

Sampling Date: 8/19/16 Sampling Time: 1100 Depth to Water: 7.25 (2HR)

Sample I.D.: MW-9 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160819-CM1	Client: ARCADIS
Sampler: CM	Date: 6/16/16
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.24	Depth to Water (DTW): 9.82
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]: 9.50	

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
1220	24.3	7.03	11.32	25	0.5	YELLOW
1222	24.4	7.03	11.70	40	1.0	"
1224	24.4	7.04	11.72	49	1.5	NOT @ 80%

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

Sampling Date: 6/16/16 Sampling Time: 1240 Depth to Water: 9.38 (SHEEN WATER)

Sample I.D.: MW-10 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.54	Depth to Water (DTW): 6.14
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]: 7.42	

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:_____

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 or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1109	25.5	5.98	5617	64	1.1	cloudy
1113	25.0	6.34	6604	32	2.2	↓
1117	24.9	6.55	8166	126	3.3	↓
*not	80%	DTW	11.55			

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

Sampling Date: 8/19/16 Sampling Time: 0945 Depth to Water: 9.95 (2HR)

Sample I.D.: MW-11 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CH1	Client: ARCADIS
Sampler: CH	Date: 8/19/16
Well I.D.: MW-12	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): —	Depth to Water (DTW): 5.23
Depth to Free Product: 5.15	Thickness of Free Product (feet): 0.08
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
~~1~~	BAILED	SPH	FROM WELL W/ MASTERFLEX			
	N/D	N/D	SPH REMOVED			

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 #: 160910-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.12	Depth to Water (DTW): 4.56
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]: 5.47	

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:_____

0.7 (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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0859	25.4	7.15	1980	74	0.7	Yellow
0902	25.6	7.11	1960	123	1.4	Yellow/cloudy
0902	25.7	7.13	1954	130	2.1	↓ ↓
						Not @ 80%

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

Sampling Date: 8/19/16 Sampling Time: 1250 Depth to Water: 5.50 (2HR)

Sample I.D.: MW-13 Laboratory: Kiff CalScience (Other) TA-ST

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

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 #: 160818-CK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-14	Well Diameter: ② 3 4 6 8 ___
Total Well Depth (TD): 9.25	Depth to Water (DTW): 3.99
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]: 5.04	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1333	25.6	6.87	2797	20	1.0	
1335	25.3	6.50	9785	9	2.0	
1338	———	well	dewatered	C	2.3	
1025	24.8	6.67	9803	30	Grab	yellow

Did well dewater? (Yes) No Gallons actually evacuated: 2.3

Sampling Date: 8/18/16 (8/19/16) Sampling Time: 1025 Depth to Water: 6.10 (2HR)

Sample I.D.: MW-14 Laboratory: Kiff CalScience (Other) TA-SR

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: MW-1S	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.30	Depth to Water (DTW): 4.71
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]: 5.83	

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 1.8 = 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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1201	25.6	7.30	2446	76	0.9	clear
1205	24.6	6.64	3252	55	1.8	↓
1208	24.3	6.48	5137	80	2.7	↓

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

Sampling Date: 8/18/16 Sampling Time: 1215 Depth to Water: 5.72

Sample I.D.: MW-1S Laboratory: Kiff CalScience Other TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: MW-16	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.35	Depth to Water (DTW): 5.32
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]: 6.33	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1250	25.3	6.86	3147	53	0.8	clear
1253	24.8	6.48	6227	45	1.6	"
1256	24.0	6.41	10.34 mS	189	2.4	"
* not	80%	DTW:	9.37			

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

Sampling Date: 8/19/16 Sampling Time: 1005 Depth to Water: 7.23 (2+2)

Sample I.D.: MW-16 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-17	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.63	Depth to Water (DTW): 7.32
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]: 8.38	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1206	21.9	7.13	12.50	98	0.8	YELLOW
1208	21.9	7.14	12.54	171	1.6	↓
	DEWATERED @ 1.8 gal			—	1.8	
1300	21.9	7.10	12.48	101	—	YELLOW

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

Sampling Date: 8/19/16 Sampling Time: 1300 Depth to Water: 8.10

Sample I.D.: MW-17 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160814-CK1	Client: ARCADIS
Sampler: CK	Date: 8/18/16
Well I.D.: MW-18	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 10.52	Depth to Water (DTW): 5.22
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]: 6.28	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1400	25.2	6.75	4725	353	0.8	cloudy
1402	25.0	6.69	6021	522	1.6	cloudy
	DEWATERED	@	2.0 gal	___	2.0	
1440	25.6	6.63	6103	421	—	cloudy

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

Sampling Date: 8/18/16 Sampling Time: 1440 Depth to Water: 5.60

Sample I.D.: MW-18 Laboratory: Kiff CalScience (Other) TA-SE

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

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 #: 160218-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-19	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 9.90	Depth to Water (DTW): 5.47
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]: 6.37	

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:

0.7 (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 or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0740	23.8	7.01	9093	328	0.7	cloudy
0742	23.5	7.07	9094	402	1.4	↓
0744	23.9	7.06	9096	410	2.1	↓
						Not @ 80%

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

Sampling Date: 8/19/16 Sampling Time: 1120 Depth to Water: 6.03

Sample I.D.: MW-19 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160918.001	Client: ARCADIS
Sampler: CW	Date: 8/10/16
Well I.D.: MW-20	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 11.54	Depth to Water (DTW): 4.51
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]: 5.92	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1415	25.6	6.95	8360	145	1.1	Cloudy
	Dewatered @ 2.0		—		2.0	
1040	24.7	7.10	4681	80	—	cloudy

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

Sampling Date: 8/10/16 Sampling Time: 1040 Depth to Water: 4.61

Sample I.D.: MW-20 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-GR1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-21	Well Diameter: ② 3 4 6 8 ___
Total Well Depth (TD): 11.70	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]: 5.88	

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
1322	25.0	6.81	2202	>1000	1.5	odor
1325	24.2	6.63	5547	>1000	3.0	
1327	———	well	dewatered	@	3.5	
1435	24.6	6.86	3478	261	Grab	

Did well dewater? (Yes) No Gallons actually evacuated: 3.5

Sampling Date: 8/18/16 Sampling Time: 1435 Depth to Water: 4.53

Sample I.D.: MW-21 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-22	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 4.00
Depth to Free Product: 4.10	Thickness of Free Product (feet): 0.02
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
*	~ SOME OF	PRODUCT.	REMOVED	W/	MASTER	FLEX

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 #: 160818-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-23	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 11.52	Depth to Water (DTW): 6.62
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]: 7.60	

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	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0925	25.7	7.60	2390	189	0.8	YELLOW / CLOUDY
0927	25.8	7.56	2368	232	1.6	↓ ↓
	DEWATERED @ 2.0 gal				2.0	
1315	25.3	7.50	2351	74	—	YELLOW

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

Sampling Date: 8/19/16 Sampling Time: 1315 Depth to Water:

Sample I.D.: MW-23 Laboratory: Kiff CalScience Other TA-SF

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

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 #: 160818-CH1	Client: ARCADIS
Sampler: CH	Date: 8/19/16
Well I.D.: MW-24	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 5.24
Depth to Free Product: 4.90	Thickness of Free Product (feet): 0.34
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
X	~ 250	m	OF SPH	Removed	w/ MASTER FLEX	

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 #: 160818-CK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-25	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 11.54	Depth to Water (DTW): 5.77
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]: 6.92	

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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1210	23.3	6.71	4273	>1000	1.0	odor
1212	23.6	6.69	4126	>1000	2.0	
1214	23.4	6.67	4260	>1000	3.0	DTW - 5.87

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

Sampling Date: 8/18/16 Sampling Time: 1220 Depth to Water: 5.87

Sample I.D.: MW-25 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160819-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: MW-26	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.82	Depth to Water (DTW): 4.69
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]: 6.31	

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:_____

1.3 (Gals.) X	3	=	3.9 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
0820	25.5	6.64	2498	138	1.3	Yellow
0823	25.4	6.94	2460	302	2.6	↓
	DEWATERED @ 2.8		gal	—	2.8	
1205	24.8	6.90	2389	101	—	Yellow

Did well dewater? (Yes) No Gallons actually evacuated: 2.8

Sampling Date: 8/19/16 Sampling Time: 1205 Depth to Water: 6.60 (2 HR)

Sample I.D.: MW-26 Laboratory: Kiff CalScience Other TA-SE

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

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 #: 160919-CK1	Client: ARCADIS
Sampler: CK	Date: 9/19/16
Well I.D.: MW-27	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 12.83	Depth to Water (DTW): 4.53
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]: 6.19	

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: ____

1.3 (Gals.) X	3	= 3.9 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
0758	24.7	7.03	3293	96	1.3	YELLOW
0901	24.8	7.04	3276	169	2.6	↓
	DEWATERED @ 3.0 gal			____	3.0	
1145	24.3	7.00	3249	94	—	YELLOW

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

Sampling Date: 9/19/16 Sampling Time: 1145 Depth to Water: 6.43 (21:12)

Sample I.D.: MW-27 Laboratory: Kiff CalScience Other TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-2B	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 11.48	Depth to Water (DTW): 7.38
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]: 8.20	

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:_____

0.7 (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 or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1241	22.3	6.67	4806	>1000	1.0	
1243	22.4	6.67	4811	>1000	2.0	
1245	22.3	6.66	4816	>1000	3.0	DTW - 7.56

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

Sampling Date: 8/18/16 Sampling Time: 1250 Depth to Water: 7.56

Sample I.D.: MW-2B Laboratory: Kiff CalScience (Other) TA-SR

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

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 #: 160818 - GK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: MW-29	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 11.64	Depth to Water (DTW): 6.40
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]: 7.45	

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: ___

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	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1118	21.4	7.05	1712	865	1.0	odor
1120	21.3	7.01	1921	827	2.0	
1122	20.8	7.00	2587	>1000	3.0	
1124	———	well	dewatered	———	3.3	

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

Sampling Date: 8/18/16 Sampling Time: 1135 Depth to Water: 7.40 (Short wait)

Sample I.D.: MW-29 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: ARCADIS
Sampler: CK	Date: 8/19/16
Well I.D.: OW-1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth (TD): ___	Depth to Water (DTW): 7.60
Depth to Free Product: 0.74	Thickness of Free Product (feet): 0.06
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
X	EMPTY	SKIMMER ~200ml OF PRODUCT.				
X	~400 ml OF	PRODUCT REMOVED W/	MASTER FLEX			
	~~QUIT~~	TOTAL PRODUCT REMOVED ~600ml				

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 #: 16088-CW1	Client: ARCADIS
Sampler: CW	Date: 8/19/16
Well I.D.: IW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 5.32
Depth to Free Product: 5.20	Thickness of Free Product (feet): 0.12
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
* ~ 100ml of SPH Removed w/ Master Flex.						

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 #: 160818-CW4	Client: ARCADIS
Sampler: CW	Date: 8/19/16
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): —	Depth to Water (DTW): 5.10
Depth to Free Product: ~~@ 4.98~~	Thickness of Free Product (feet): 0.12
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
*	~100 M	OF	SPH REMOVED W/ MASTERFLEX			

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 #: 160819-CK1	Client: ARCADIS
Sampler: CK	Date: 6/19/16
Well I.D.: IW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 9.11	Depth to Water (DTW): 4.69
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: ________

0.7 (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	$radius^2 * 0.163$

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0838	24.8	7.10	2810	54	0.7	yellow
0840	24.9	6.96	2760	108	1.4	↓
	DEWATERED @ 1.8 gal			—	1.8	
1230	25.4	6.97	2710	38	—	yellow

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

Sampling Date: 6/19/16 — Sampling Time: 1230 — Depth to Water: 5.90 (2HR)

Sample I.D.: IW-3 — Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818-CK1	Client: Arcadis
Sampler: Colin Rowland	Date: 8/18/16
Well I.D.: IW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.50	Depth to Water (DTW): 4.71
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]: 5.67	

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: ____

0.75 (Gals.) X 3 = 2.25 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
1351	25.5	7.30	1791	42	0.75	clear
1354	24.3	6.98	2103	219	1.5	↓
1357	23.9	6.88	2195	266	2.25	↓

Did well dewater? Yes (No) Gallons actually evacuated: 2.25

Sampling Date: 8/18/16 Sampling Time: 1405 Depth to Water: 4.75

Sample I.D.: IW-4 Laboratory: Kiff CalScience Other TA-SF

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

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 #: 160818-CK1	Client: ARCADIS
Sampler: CK	Date: 8/18/16
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 9.29	Depth to Water (DTW): 4.81
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]: 5.71	

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:_____

0.7 (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 or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1324	26.1	6.90	2301	167	0.7	ODOR/YELLOW
1326	26.1	6.89	2450	589	1.4	↓
1328	26.1	6.89	2455	610	2.1	↓

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

Sampling Date: 8/18/16 Sampling Time: 1330 Depth to Water: 4.95

Sample I.D.: MW-5 Laboratory: Kiff CalScience (Other) TA-SF

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

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 #: 160818 - CK1	Client: Arcadis
Sampler: GR	Date: 8/18/2016
Well I.D.: IW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 9.30	Depth to Water (DTW): 4.78
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]: 5.68	

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:

0.7 (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 or (°C))	pH	Cond. ((mS) or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1348	26.5	6.51	15.41	>1000	1.0	
1350	26.2	6.51	15.76	>1000	2.0	
1352	26.3	6.51	15.81	>1000	3.0	DTW - 9.01

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

Sampling Date: 8/18/16 Sampling Time: 1455 Depth to Water: 5.67

Sample I.D.: IW-6 Laboratory: Kiff CalScience (Other) TA-SF

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

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

WELLHEAD INSPECTION CHECKLIST

Client ARCADIS Date 8/10/11

Site Address 8400 PARDEE DR, OAKLAND

Job Number 160218-CK1 Technician CK/GR/CK

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-28					NL			
MW-29					NL			
MW-23					NL			
MW-25					NL			
IW-3					NL	X		
MW-27					NL	X		
MW-21					NL			
MW-19					NL			
IW-6					NL	X		
MW-8					NL	X		
MW-26					NL			
MW-13					NL	X		
MW-14					NL	X		
MW-2					NL	X		
MW-3	X				NL			
MW-4	X				NL			

NOTES: MW-8 = 2/2 tabs Stripped, IW-3 = 2/2 bolts missing, MW-27 = 1/2 tabs broken off, IW-6 = 2/2 tabs Stripped, MW-14 = 1/2 bolts missing, MW-13 = 2/2 bolts missing & Lid replaced w/ Steel plate MW-2 - 2/2 Bolts

WELLHEAD INSPECTION CHECKLIST

Client ARCADIS Date 8/18/16

Site Address 8400 PARDEE DR, OAKLAND

Job Number 160818-ou1 Technician CK / GR / CK

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-9	X				NL			
MW-10	X				NL			
MW-11	X				NL			
MW-12					NL	X		
MW-15	V				NL			
MW-16	X				NL			
MW-17	X				NL			
MW-18	X				NL			
MW-20	X				NL			
MW-22					NL	X		
MW-24	X				NL			
OW-1	X				NL			
IW-1	X				NL			
IW-2	X				NL			
IW-4	V				NL			
IW-5	V				NL			

NOTES: OW-1 2/2 TABS BROKEN MW-22 1/2 TABS BROKEN

IW-2 STEEL LID NO BOLTS MW-12 2/2 TABS STRIPPED

WELLHEAD INSPECTION CHECKLIST

Client AREADIS Date 7/26/12

Site Address 6440 PARDEE DR, OAKLAND

Job Number 160726-CK2 Technician CK

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-21	X							
MW-22						X		
MW-23	X							
MW-24	X							
MW-25	X							
MW-26	X							
MW-27						X		
MW-28	X							
MW-29								
DW-1						X		
IW-1						X		
IW-2						X		
IW-3	X							
IW-4						X		
IW-5						X		
IW-6						X		

NOTES: MW-27 1/2 TABS BROKEN; IW-5 = 2/2 tabs broken, IW-6 = 2/2 tabs stripped; IW-4 = 2/2 tabs broken; MW-22 = 1/2 tabs broken; IW-3 = 2/2 bolts missing; IW-2 = 2/2 bolts missing, wrong LID; IW-1 = 2/2 bolts missing; 2/2 tabs broken; DW-1 = 2/2 tabs broken;

APPENDIX B

Laboratory Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

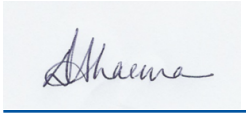
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-74030-1
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:
8/25/2016 4:40:28 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
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.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
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

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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: 720-74030-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-74030-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2016 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 4.1º C, 5.0º C, 5.5º C, 5.9º C and 6.0º C.

GC/MS VOA
Method 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: MW-10 (720-74030-1), MW-17 (720-74030-2), IW-6 (720-74030-6), MW-8 (720-74030-8), MW-28 (720-74030-9) and MW-25 (720-74030-10).

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: MW-29 (720-74030-14). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA
Method 8270C SIM: Surrogate recovery for the following samples was outside control limits: MW-17 (720-74030-2), IW-5 (720-74030-3), MW-3 (720-74030-4), IW-6 (720-74030-6), MW-21 (720-74030-7), MW-28 (720-74030-9) and MW-25 (720-74030-10), MW-4 (720-74030-11) and IW-4 (720-74030-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: IW-5 (720-74030-3) and MW-25 (720-74030-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

GC Semi VOA
Method 8015B: The following samples required a dilution due to the nature of the sample matrix: IW-5 (720-74030-3), MW-3 (720-74030-4) and IW-4 (720-74030-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: IW-5 (720-74030-3).

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

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

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

Detection Summary

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-10 — Lab Sample ID: 720-74030-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	2.9		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	200		52		ug/L	1		8015B	Total/NA
Total Dissolved Solids	6300		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 720-74030-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.5		1.0		mg/L	1		RSK-175	Total/NA
Total Dissolved Solids	7100		50		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-5 — Lab Sample ID: 720-74030-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	610		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	3.6		1.1		ug/L	10		8270C SIM	Total/NA
Acenaphthene	7.2		1.1		ug/L	10		8270C SIM	Total/NA
Fluorene	13		1.1		ug/L	10		8270C SIM	Total/NA
Phenanthrene	9.3		1.1		ug/L	10		8270C SIM	Total/NA
Methane (TCD)	5.4		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	55000		1100		ug/L	20		8015B	Total/NA
Diesel Range Organics [C10-C28]	50000		1100		ug/L	20		8015B	Silica Gel Cleanup
Total Dissolved Solids	1600		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-74030-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.6		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	270		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.53		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	1.3		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	4.3		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	2.4		0.10		ug/L	1		8270C SIM	Total/NA
Pyrene	0.11		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	3.7		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	14000		510		ug/L	10		8015B	Total/NA
Diesel Range Organics [C10-C28]	970		51		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 720-74030-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3.7		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	750		51		ug/L	1		8015B	Total/NA
Total Dissolved Solids	3600		25		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: 720-74030-1

Client Sample ID: IW-6 — Lab Sample ID: 720-74030-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.2		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	220		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.33		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.71		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	1.5		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.61		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	2.0		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	4100		49		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	1200		49		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	12000		100		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 720-74030-7

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	0.86		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	1.7		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	5.0		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	1.6		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	6.1		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	7200		99		ug/L	2		8015B	Total/NA
Diesel Range Organics [C10-C28]	1700		49		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	1900		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 720-74030-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	7.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	270		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	4.7		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.72		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.31		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.14		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	1.6		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	130		49		ug/L	1		8015B	Total/NA
Total Dissolved Solids	5100		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-28 — Lab Sample ID: 720-74030-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.23		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.49		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.21		0.10		ug/L	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-28 (Continued) — Lab Sample ID: 720-74030-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.40		0.10		ug/L	1		8270C SIM	Total/NA
Fluoranthene	0.17		0.10		ug/L	1		8270C SIM	Total/NA
Pyrene	0.16		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	3.5		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	1500		50		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	66		50		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	3000		17		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-25 — Lab Sample ID: 720-74030-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	310		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	240		10		ug/L	100		8270C SIM	Total/NA
Acenaphthene	57		1.0		ug/L	10		8270C SIM	Total/NA
Fluorene	49		1.0		ug/L	10		8270C SIM	Total/NA
Phenanthrene	83		1.0		ug/L	10		8270C SIM	Total/NA
Anthracene	7.9		1.0		ug/L	10		8270C SIM	Total/NA
Benzo[a]anthracene	2.4		1.0		ug/L	10		8270C SIM	Total/NA
Chrysene	2.0		1.0		ug/L	10		8270C SIM	Total/NA
Fluoranthene	21		1.0		ug/L	10		8270C SIM	Total/NA
Pyrene	10		1.0		ug/L	10		8270C SIM	Total/NA
Methane (TCD)	3.8		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	3700		50		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	1300		50		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	2300		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 720-74030-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	58		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.36		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.46		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	1.7		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.12		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	6.3		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	8000		100		ug/L	2		8015B	Total/NA
Diesel Range Organics [C10-C28]	670		51		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 720-74030-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	54		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane (TCD)	4.3		1.0		mg/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15 (Continued) — Lab Sample ID: 720-74030-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	510		51		ug/L	1		8015B	Total/NA
Total Dissolved Solids	1800		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-4 — Lab Sample ID: 720-74030-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	400		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.0		0.20		ug/L	2		8270C SIM	Total/NA
Acenaphthene	2.9		0.20		ug/L	2		8270C SIM	Total/NA
Fluorene	6.4		0.20		ug/L	2		8270C SIM	Total/NA
Phenanthrene	2.1		0.20		ug/L	2		8270C SIM	Total/NA
Fluoranthene	0.36		0.20		ug/L	2		8270C SIM	Total/NA
Pyrene	0.47		0.20		ug/L	2		8270C SIM	Total/NA
Methane (TCD)	5.4		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	25000		250		ug/L	5		8015B	Total/NA
Diesel Range Organics [C10-C28]	14000		250		ug/L	5		8015B	Silica Gel Cleanup
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 720-74030-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.21		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.27		0.10		ug/L	1		8270C SIM	Total/NA
Methane (TCD)	3.5		1.0		mg/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	780		50		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	75		50		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-10

Date Collected: 08/18/16 12:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 16:01	1
Benzene	ND		0.50		ug/L			08/23/16 16:01	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 16:01	1
Naphthalene	ND		1.0		ug/L			08/23/16 16:01	1
Toluene	ND		0.50		ug/L			08/23/16 16:01	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 16:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*08/23/16 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*72 - 130*		*08/23/16 16:01*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/23/16 16:01*	*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		08/24/16 11:48	08/24/16 21:33	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*29 - 120*	*08/24/16 11:48*	*08/24/16 21:33*	*1*
Terphenyl-d14	*68*		*45 - 120*	*08/24/16 11:48*	*08/24/16 21:33*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.9**		1.0		mg/L			08/22/16 10:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**		52		ug/L		08/22/16 10:53	08/22/16 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*83*		*23 - 156*	*08/22/16 10:53*	*08/22/16 19:16*	*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		08/22/16 18:31	08/24/16 19:36	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-10
Date Collected: 08/18/16 12:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 19:36*	*1*
p-Terphenyl	*81*		*31 - 150*	*08/22/16 18:31*	*08/24/16 19:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6300		33		mg/L			08/23/16 03:34	1

Client Sample ID: MW-17

Date Collected: 08/18/16 13:00
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 17:29	1
Benzene	ND		0.50		ug/L			08/23/16 17:29	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 17:29	1
Naphthalene	ND		1.0		ug/L			08/23/16 17:29	1
Toluene	ND		0.50		ug/L			08/23/16 17:29	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 17:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*08/23/16 17:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*08/23/16 17:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/23/16 17:29*	*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		08/24/16 11:48	08/24/16 21:57	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*29 - 120*	*08/24/16 11:48*	*08/24/16 21:57*	*1*
Terphenyl-d14	*43*	*X*	*45 - 120*	*08/24/16 11:48*	*08/24/16 21:57*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.5**		1.0		mg/L			08/22/16 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		52		ug/L		08/22/16 10:53	08/22/16 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*73*		*23 - 156*	*08/22/16 10:53*	*08/22/16 19:40*	*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		08/22/16 18:31	08/24/16 20:06	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-17
Date Collected: 08/18/16 13:00
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:06*	*1*
p-Terphenyl	*78*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7100		50		mg/L			08/23/16 03:37	1

Client Sample ID: IW-5

Date Collected: 08/18/16 13:30
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 17:58	1
Benzene	ND		0.50		ug/L			08/23/16 17:58	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 17:58	1
Naphthalene	**2.5**		1.0		ug/L			08/23/16 17:58	1
Toluene	ND		0.50		ug/L			08/23/16 17:58	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 17:58	1
Gasoline Range Organics (GRO) -C5-C12	**610**		50		ug/L			08/23/16 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*67 - 130*		*08/23/16 17:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*08/23/16 17:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/23/16 17:58*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.6**		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Acenaphthene	**7.2**		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Acenaphthylene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Fluorene	**13**		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Phenanthrene	**9.3**		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Anthracene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Benzo[a]anthracene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Chrysene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Benzo[a]pyrene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Benzo[b]fluoranthene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Benzo[k]fluoranthene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Benzo[g,h,i]perylene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Indeno[1,2,3-cd]pyrene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Fluoranthene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Pyrene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10
Dibenz(a,h)anthracene	ND		1.1		ug/L		08/24/16 11:48	08/25/16 13:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*29 - 120*	*08/24/16 11:48*	*08/25/16 13:33*	*10*
Terphenyl-d14	*36*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 13:33*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**5.4**		1.0		mg/L			08/22/16 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**55000**		1100		ug/L		08/22/16 10:53	08/23/16 16:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*08/22/16 10:53*	*08/23/16 16:19*	*20*

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]	**50000**		1100		ug/L		08/22/16 18:31	08/24/16 20:33	20

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: IW-5
Date Collected: 08/18/16 13:30
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:33*	*20*
p-Terphenyl	*0*	*X D*	*31 - 150*	*08/22/16 18:31*	*08/24/16 20:33*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			08/23/16 03:41	1

Client Sample ID: MW-3

Date Collected: 08/18/16 13:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/25/16 13:01	1
Benzene	ND		0.50		ug/L			08/25/16 13:01	1
Ethylbenzene	ND		0.50		ug/L			08/25/16 13:01	1
Naphthalene	**1.6**		1.0		ug/L			08/25/16 13:01	1
Toluene	ND		0.50		ug/L			08/25/16 13:01	1
Xylenes, Total	ND		1.0		ug/L			08/25/16 13:01	1
Gasoline Range Organics (GRO) -C5-C12	**270**		50		ug/L			08/25/16 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*08/25/16 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*08/25/16 13:01*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/25/16 13:01*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.53**		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Acenaphthene	**1.3**		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Fluorene	**4.3**		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Phenanthrene	**2.4**		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Pyrene	**0.11**		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*39*		*29 - 120*	*08/24/16 11:48*	*08/24/16 22:44*	*1*
Terphenyl-d14	*40*	*X*	*45 - 120*	*08/24/16 11:48*	*08/24/16 22:44*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.7**		1.0		mg/L			08/22/16 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14000**		510		ug/L		08/22/16 10:53	08/23/16 15:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*08/22/16 10:53*	*08/23/16 15:49*	*10*

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**		51		ug/L		08/22/16 18:31	08/24/16 23:39	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-3
Date Collected: 08/18/16 13:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 23:39*	*1*
p-Terphenyl	*75*		*31 - 150*	*08/22/16 18:31*	*08/24/16 23:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1300**		10		mg/L			08/23/16 03:52	1

Client Sample ID: MW-18

Date Collected: 08/18/16 14:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/25/16 14:58	1
Benzene	ND		0.50		ug/L			08/25/16 14:58	1
Ethylbenzene	ND		0.50		ug/L			08/25/16 14:58	1
Naphthalene	ND		1.0		ug/L			08/25/16 14:58	1
Toluene	ND		0.50		ug/L			08/25/16 14:58	1
Xylenes, Total	ND		1.0		ug/L			08/25/16 14:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/25/16 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*08/25/16 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*08/25/16 14:58*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/25/16 14:58*	*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		08/24/16 11:48	08/24/16 23:08	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*40*		*29 - 120*	*08/24/16 11:48*	*08/24/16 23:08*	*1*
Terphenyl-d14	*46*		*45 - 120*	*08/24/16 11:48*	*08/24/16 23:08*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.7**		1.0		mg/L			08/22/16 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**750**		51		ug/L		08/22/16 10:53	08/23/16 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*23 - 156*	*08/22/16 10:53*	*08/23/16 00:08*	*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		51		ug/L		08/22/16 18:31	08/24/16 20:35	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-18
Date Collected: 08/18/16 14:40
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:35*	*1*
p-Terphenyl	*82*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3600		25		mg/L			08/23/16 03:59	1

Client Sample ID: IW-6

Date Collected: 08/18/16 14:55
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 22:36	1
Benzene	ND		0.50		ug/L			08/23/16 22:36	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 22:36	1
Naphthalene	**1.2**		1.0		ug/L			08/23/16 22:36	1
Toluene	ND		0.50		ug/L			08/23/16 22:36	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 22:36	1
Gasoline Range Organics (GRO) -C5-C12	**220**		50		ug/L			08/23/16 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*08/23/16 22:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*08/23/16 22:36*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*08/23/16 22:36*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.33**		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Acenaphthene	**0.71**		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Fluorene	**1.5**		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Phenanthrene	**0.61**		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*29 - 120*	*08/24/16 11:48*	*08/24/16 23:32*	*1*
Terphenyl-d14	*28*	*X*	*45 - 120*	*08/24/16 11:48*	*08/24/16 23:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**2.0**		1.0		mg/L			08/22/16 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4100**		49		ug/L		08/22/16 10:53	08/22/16 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*62*		*23 - 156*	*08/22/16 10:53*	*08/22/16 22:06*	*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]	**1200**		49		ug/L		08/22/16 18:31	08/24/16 19:45	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: IW-6
Date Collected: 08/18/16 14:55
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*1*		*0 - 5*	*08/22/16 18:31*	*08/24/16 19:45*	*1*
p-Terphenyl	*59*		*31 - 150*	*08/22/16 18:31*	*08/24/16 19:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12000		100		mg/L			08/23/16 04:03	1

Client Sample ID: MW-21

Date Collected: 08/18/16 14:35
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 23:04	1
Benzene	ND		0.50		ug/L			08/23/16 23:04	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 23:04	1
Naphthalene	**1.3**		1.0		ug/L			08/23/16 23:04	1
Toluene	ND		0.50		ug/L			08/23/16 23:04	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 23:04	1
Gasoline Range Organics (GRO) -C5-C12	**290**		50		ug/L			08/23/16 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*08/23/16 23:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*08/23/16 23:04*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*08/23/16 23:04*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.86**		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Acenaphthene	**1.7**		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Fluorene	**5.0**		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Phenanthrene	**1.6**		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*29 - 120*	*08/24/16 11:48*	*08/24/16 23:55*	*1*
Terphenyl-d14	*38*	*X*	*45 - 120*	*08/24/16 11:48*	*08/24/16 23:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**6.1**		1.0		mg/L			08/22/16 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7200**		99		ug/L		08/22/16 10:53	08/23/16 13:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*65*		*23 - 156*	*08/22/16 10:53*	*08/23/16 13:19*	*2*

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]	**1700**		49		ug/L		08/22/16 18:31	08/25/16 00:08	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-21
Date Collected: 08/18/16 14:35
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	08/22/16 18:31	08/25/16 00:08	1
p-Terphenyl	78		31 - 150	08/22/16 18:31	08/25/16 00:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10		mg/L			08/23/16 04:06	1

Client Sample ID: MW-8

Date Collected: 08/18/16 14:15
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 23:31	1
Benzene	ND		0.50		ug/L			08/23/16 23:31	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 23:31	1
Naphthalene	**7.7**		1.0		ug/L			08/23/16 23:31	1
Toluene	ND		0.50		ug/L			08/23/16 23:31	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 23:31	1
Gasoline Range Organics (GRO) -C5-C12	**270**		50		ug/L			08/23/16 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*08/23/16 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*08/23/16 23:31*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*08/23/16 23:31*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**4.7**		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Acenaphthene	**0.72**		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Fluorene	**0.31**		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Phenanthrene	**0.14**		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*29 - 120*	*08/24/16 11:48*	*08/25/16 00:19*	*1*
Terphenyl-d14	*62*		*45 - 120*	*08/24/16 11:48*	*08/25/16 00:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**1.6**		1.0		mg/L			08/22/16 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		49		ug/L		08/22/16 10:53	08/22/16 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*08/22/16 10:53*	*08/22/16 20:04*	*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		49		ug/L		08/22/16 18:31	08/24/16 19:36	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-8
Date Collected: 08/18/16 14:15
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 19:36*	*1*
p-Terphenyl	*77*		*31 - 150*	*08/22/16 18:31*	*08/24/16 19:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		33		mg/L			08/23/16 04:10	1

Client Sample ID: MW-28

Date Collected: 08/18/16 12:50
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 23:59	1
Benzene	ND		0.50		ug/L			08/23/16 23:59	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 23:59	1
Naphthalene	ND		1.0		ug/L			08/23/16 23:59	1
Toluene	ND		0.50		ug/L			08/23/16 23:59	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 23:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*		*08/23/16 23:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*72 - 130*		*08/23/16 23:59*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*08/23/16 23:59*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.23**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Acenaphthene	**0.49**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Fluorene	**0.21**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Phenanthrene	**0.40**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Fluoranthene	**0.17**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Pyrene	**0.16**		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*29 - 120*	*08/24/16 11:48*	*08/25/16 00:43*	*1*
Terphenyl-d14	*38*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 00:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.5**		1.0		mg/L			08/22/16 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1500**		50		ug/L		08/22/16 10:53	08/22/16 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*71*		*23 - 156*	*08/22/16 10:53*	*08/22/16 21:18*	*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]	**66**		50		ug/L		08/22/16 18:31	08/24/16 20:06	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-28
Date Collected: 08/18/16 12:50
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:06*	*1*
p-Terphenyl	*67*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3000		17		mg/L			08/23/16 04:14	1

Client Sample ID: MW-25
Date Collected: 08/18/16 12:20
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		2.5		ug/L			08/24/16 00:27	5
Benzene	ND		2.5		ug/L			08/24/16 00:27	5
Ethylbenzene	ND		2.5		ug/L			08/24/16 00:27	5
Naphthalene	**310**		5.0		ug/L			08/24/16 00:27	5
Toluene	ND		2.5		ug/L			08/24/16 00:27	5
Xylenes, Total	ND		5.0		ug/L			08/24/16 00:27	5
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/L			08/24/16 00:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*67 - 130*		*08/24/16 00:27*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*08/24/16 00:27*	*5*
Toluene-d8 (Surr)	*92*		*70 - 130*		*08/24/16 00:27*	*5*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**240**		10		ug/L		08/24/16 11:48	08/25/16 13:57	100
Acenaphthene	**57**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Acenaphthylene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Fluorene	**49**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Phenanthrene	**83**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Anthracene	**7.9**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Benzo[a]anthracene	**2.4**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Chrysene	**2.0**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Benzo[a]pyrene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Benzo[b]fluoranthene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Benzo[k]fluoranthene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Benzo[g,h,i]perylene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Indeno[1,2,3-cd]pyrene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Fluoranthene	**21**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Pyrene	**10**		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10
Dibenz(a,h)anthracene	ND		1.0		ug/L		08/24/16 11:48	08/25/16 14:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*29 - 120*	*08/24/16 11:48*	*08/25/16 13:57*	*100*
2-Fluorobiphenyl	*45*		*29 - 120*	*08/24/16 11:48*	*08/25/16 14:44*	*10*
Terphenyl-d14	*0*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 13:57*	*100*
Terphenyl-d14	*24*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 14:44*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.8**		1.0		mg/L			08/22/16 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3700**		50		ug/L		08/22/16 10:53	08/22/16 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*23 - 156*	*08/22/16 10:53*	*08/22/16 21:42*	*1*

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-25
Date Collected: 08/18/16 12:20
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-10
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]	1300		50		ug/L		08/22/16 18:31	08/24/16 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 5*	*08/22/16 18:31*	*08/24/16 19:45*	*1*
p-Terphenyl	*71*		*31 - 150*	*08/22/16 18:31*	*08/24/16 19:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2300		10		mg/L			08/23/16 04:17	1

Client Sample ID: MW-4

Date Collected: 08/18/16 13:32
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 00:54	1
Benzene	ND		0.50		ug/L			08/24/16 00:54	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 00:54	1
Naphthalene	**1.8**		1.0		ug/L			08/24/16 00:54	1
Toluene	ND		0.50		ug/L			08/24/16 00:54	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 00:54	1
Gasoline Range Organics (GRO) -C5-C12	**58**		50		ug/L			08/24/16 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*08/24/16 00:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*08/24/16 00:54*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/24/16 00:54*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.36**		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Acenaphthene	**0.46**		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Fluorene	**1.7**		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Phenanthrene	**0.12**		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*29 - 120*	*08/24/16 11:48*	*08/25/16 13:09*	*1*
Terphenyl-d14	*60*		*45 - 120*	*08/24/16 11:48*	*08/25/16 13:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**6.3**		1.0		mg/L			08/22/16 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8000**		100		ug/L		08/22/16 10:53	08/23/16 00:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*08/22/16 10:53*	*08/23/16 00:07*	*2*

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]	**670**		51		ug/L		08/22/16 18:31	08/25/16 00:37	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-4
Date Collected: 08/18/16 13:32
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/25/16 00:37*	*1*
p-Terphenyl	*79*		*31 - 150*	*08/22/16 18:31*	*08/25/16 00:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1300**		10		mg/L			08/23/16 04:21	1

Client Sample ID: MW-15

Date Collected: 08/18/16 12:15
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 01:22	1
Benzene	ND		0.50		ug/L			08/24/16 01:22	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 01:22	1
Naphthalene	ND		1.0		ug/L			08/24/16 01:22	1
Toluene	ND		0.50		ug/L			08/24/16 01:22	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 01:22	1
Gasoline Range Organics (GRO) -C5-C12	**54**		50		ug/L			08/24/16 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*08/24/16 01:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*08/24/16 01:22*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*08/24/16 01:22*	*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		08/24/16 11:48	08/25/16 01:54	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*29 - 120*	*08/24/16 11:48*	*08/25/16 01:54*	*1*
Terphenyl-d14	*51*		*45 - 120*	*08/24/16 11:48*	*08/25/16 01:54*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**4.3**		1.0		mg/L			08/22/16 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**510**		51		ug/L		08/22/16 10:53	08/22/16 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*23 - 156*	*08/22/16 10:53*	*08/22/16 21:42*	*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		51		ug/L		08/22/16 18:31	08/24/16 20:35	1

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-15
Date Collected: 08/18/16 12:15
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:35*	*1*
p-Terphenyl	*84*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		10		mg/L			08/23/16 04:25	1

Client Sample ID: IW-4

Date Collected: 08/18/16 14:05
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 01:49	1
Benzene	ND		0.50		ug/L			08/24/16 01:49	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 01:49	1
Naphthalene	**1.5**		1.0		ug/L			08/24/16 01:49	1
Toluene	ND		0.50		ug/L			08/24/16 01:49	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 01:49	1
Gasoline Range Organics (GRO) -C5-C12	**400**		50		ug/L			08/24/16 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*08/24/16 01:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*08/24/16 01:49*	*1*
Toluene-d8 (Surr)	*81*		*70 - 130*		*08/24/16 01:49*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.0**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Acenaphthene	**2.9**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Acenaphthylene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Fluorene	**6.4**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Phenanthrene	**2.1**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Anthracene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Benzo[a]anthracene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Chrysene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Benzo[a]pyrene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Benzo[b]fluoranthene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Benzo[k]fluoranthene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Benzo[g,h,i]perylene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Indeno[1,2,3-cd]pyrene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Fluoranthene	**0.36**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Pyrene	**0.47**		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2
Dibenz(a,h)anthracene	ND		0.20		ug/L		08/24/16 11:48	08/25/16 14:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*29 - 120*	*08/24/16 11:48*	*08/25/16 14:20*	*2*
Terphenyl-d14	*37*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 14:20*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**5.4**		1.0		mg/L			08/22/16 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25000**		250		ug/L		08/22/16 10:53	08/22/16 22:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*23 - 156*	*08/22/16 10:53*	*08/22/16 22:30*	*5*

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]	**14000**		250		ug/L		08/22/16 18:31	08/24/16 21:46	5

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: IW-4
Date Collected: 08/18/16 14:05
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 5*	*08/22/16 18:31*	*08/24/16 21:46*	*5*
p-Terphenyl	*0*	*X D*	*31 - 150*	*08/22/16 18:31*	*08/24/16 21:46*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			08/23/16 04:28	1

Client Sample ID: MW-29

Date Collected: 08/18/16 11:35
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 02:17	1
Benzene	ND		0.50		ug/L			08/24/16 02:17	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 02:17	1
Naphthalene	ND		1.0		ug/L			08/24/16 02:17	1
Toluene	ND		0.50		ug/L			08/24/16 02:17	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 02:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/25/16 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*133*	*X*	*67 - 130*		*08/24/16 02:17*	*1*
4-Bromofluorobenzene	*93*		*67 - 130*		*08/25/16 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*08/24/16 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*08/25/16 12:32*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/24/16 02:17*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/25/16 12:32*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.21**		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Acenaphthene	**0.27**		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*29 - 120*	*08/24/16 11:48*	*08/25/16 02:41*	*1*
Terphenyl-d14	*45*		*45 - 120*	*08/24/16 11:48*	*08/25/16 02:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	**3.5**		1.0		mg/L			08/22/16 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**780**		50		ug/L		08/22/16 10:53	08/22/16 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*75*		*23 - 156*	*08/22/16 10:53*	*08/22/16 20:53*	*1*

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: MW-29
Date Collected: 08/18/16 11:35
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-14
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]	75		50		ug/L		08/22/16 18:31	08/24/16 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:09*	*1*
p-Terphenyl	*70*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			08/23/16 04:32	1

Surrogate Summary

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

TestAmerica Job ID: 720-74030-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-74030-1	MW-10	92	120	97
720-74030-1 MS	MW-10	109	114	104
720-74030-1 MSD	MW-10	110	109	104
720-74030-2	MW-17	102	113	99
720-74030-3	IW-5	110	112	99
720-74030-4	MW-3	99	103	99
720-74030-5	MW-18	97	104	98
720-74030-6	IW-6	99	102	109
720-74030-6 MS	IW-6	99	95	103
720-74030-6 MSD	IW-6	98	97	109
720-74030-7	MW-21	99	94	109
720-74030-8	MW-8	98	103	106
720-74030-9	MW-28	112	117	109
720-74030-10	MW-25	117	100	92
720-74030-11	MW-4	101	105	104
720-74030-12	MW-15	100	113	115
720-74030-13	IW-4	103	105	81
720-74030-14	MW-29	133 X	105	104
720-74030-14	MW-29	93	105	95
LCS 720-208055/5	Lab Control Sample	106	101	104
LCS 720-208055/7	Lab Control Sample	103	102	103
LCS 720-208109/6	Lab Control Sample	96	88	99
LCS 720-208109/8	Lab Control Sample	97	97	102
LCS 720-208222/5	Lab Control Sample	95	102	99
LCS 720-208222/7	Lab Control Sample	95	103	98
LCSD 720-208055/6	Lab Control Sample Dup	107	102	104
LCSD 720-208055/8	Lab Control Sample Dup	104	101	104
LCSD 720-208109/7	Lab Control Sample Dup	93	96	100
LCSD 720-208109/9	Lab Control Sample Dup	92	93	101
LCSD 720-208222/6	Lab Control Sample Dup	93	101	100
LCSD 720-208222/8	Lab Control Sample Dup	96	103	98
MB 720-208055/4	Method Blank	94	102	100
MB 720-208109/5	Method Blank	94	92	100
MB 720-208222/4	Method Blank	93	101	96

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPH
Lab Sample ID	Client Sample ID	(29-120)	(45-120)
720-74030-1	MW-10	74	68
720-74030-2	MW-17	57	43 X
720-74030-3	IW-5	69	36 X

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP (29-120)	TPH (45-120)
720-74030-4	MW-3	39	40 X
720-74030-5	MW-18	40	46
720-74030-6	IW-6	50	28 X
720-74030-7	MW-21	44	38 X
720-74030-8	MW-8	67	62
720-74030-9	MW-28	63	38 X
720-74030-10	MW-25	0 X	0 X
720-74030-10	MW-25	45	24 X
720-74030-11	MW-4	56	60
720-74030-12	MW-15	69	51
720-74030-13	IW-4	54	37 X
720-74030-14	MW-29	59	45
LCS 720-208168/2-A	Lab Control Sample	76	70
LCSD 720-208168/3-A	Lab Control Sample Dup	64	66
MB 720-208168/1-A	Method Blank	68	80

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	PTP1 (23-156)
720-74030-1	MW-10	83
720-74030-2	MW-17	73
720-74030-3	IW-5	0 X D
720-74030-4	MW-3	0 X D
720-74030-5	MW-18	67
720-74030-6	IW-6	62
720-74030-7	MW-21	65
720-74030-8	MW-8	82
720-74030-9	MW-28	71
720-74030-10	MW-25	69
720-74030-11	MW-4	81
720-74030-12	MW-15	70
720-74030-13	IW-4	0 X D
720-74030-14	MW-29	75
LCS 720-208007/2-A	Lab Control Sample	80
LCSD 720-208007/3-A	Lab Control Sample Dup	90
MB 720-208007/1-A	Method Blank	72

Surrogate Legend

PTP = p-Terphenyl

Surrogate Summary

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

TestAmerica Job ID: 720-74030-1

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

Matrix: Water

Prep Type: Silica Gel Cleanup

		Percent Surrogate Recovery (Acceptance Limits)									
		NDA1	PTP1								
Lab Sample ID	Client Sample ID	(0-5)	(31-150)								
720-74030-1	MW-10	0	81								
720-74030-2	MW-17	0	78								
720-74030-3	IW-5	0	0 X D								
720-74030-4	MW-3	0	75								
720-74030-5	MW-18	0.04	82								
720-74030-6	IW-6	1	59								
720-74030-7	MW-21	0	78								
720-74030-8	MW-8	0	77								
720-74030-9	MW-28	0	67								
720-74030-10	MW-25	0.5	71								
720-74030-11	MW-4	0	79								
720-74030-12	MW-15	0.004	84								
720-74030-13	IW-4	0	0 X D								
720-74030-14	MW-29	0.3	70								
LCS 720-208048/2-A	Lab Control Sample		82								
LCSD 720-208048/3-A	Lab Control Sample Dup		78								
MB 720-208048/1-A	Method Blank	0.007	65								

Surrogate Legend

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

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

Lab Sample ID: MB 720-208055/4
Matrix: Water
Analysis Batch: 208055

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 08:44	1
Benzene	ND		0.50		ug/L			08/23/16 08:44	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 08:44	1
Naphthalene	ND		1.0		ug/L			08/23/16 08:44	1
Toluene	ND		0.50		ug/L			08/23/16 08:44	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 08:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 08:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*08/23/16 08:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*08/23/16 08:44*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/23/16 08:44*	*1*

Lab Sample ID: LCS 720-208055/5
Matrix: Water
Analysis Batch: 208055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	23.4		ug/L		93	62 - 130
Benzene	25.0	25.8		ug/L		103	79 - 130
Ethylbenzene	25.0	26.1		ug/L		104	80 - 120
Naphthalene	25.0	23.5		ug/L		94	50 - 130
Toluene	25.0	24.8		ug/L		99	78 - 120
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 142
o-Xylene	25.0	25.9		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 720-208055/7
Matrix: Water
Analysis Batch: 208055

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	556		ug/L		111	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

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

Lab Sample ID: LCSD 720-208055/6
Matrix: Water
Analysis Batch: 208055

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
MTBE			25.0	24.8		ug/L		99	62 - 130	6	20
Benzene			25.0	26.2		ug/L		105	79 - 130	1	20
Ethylbenzene			25.0	26.5		ug/L		106	80 - 120	1	20
Naphthalene			25.0	25.5		ug/L		102	50 - 130	8	20
Toluene			25.0	25.3		ug/L		101	78 - 120	2	20
m-Xylene & p-Xylene			25.0	26.1		ug/L		105	70 - 142	0	20
o-Xylene			25.0	26.5		ug/L		106	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-208055/8
Matrix: Water
Analysis Batch: 208055

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	71 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 720-74030-1 MS
Matrix: Water
Analysis Batch: 208055

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
MTBE	ND		25.0	27.5		ug/L		110	60 - 138
Benzene	ND		25.0	26.3		ug/L		105	60 - 140
Ethylbenzene	ND		25.0	25.9		ug/L		103	60 - 140
Naphthalene	ND		25.0	28.9		ug/L		115	56 - 140
Toluene	ND		25.0	24.4		ug/L		97	60 - 140
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	60 - 140
o-Xylene	ND		25.0	26.5		ug/L		106	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: 720-74030-1 MSD
Matrix: Water
Analysis Batch: 208055

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
MTBE	ND		25.0	26.6		ug/L		106	60 - 138	3	20
Benzene	ND		25.0	25.9		ug/L		104	60 - 140	2	20
Ethylbenzene	ND		25.0	25.4		ug/L		101	60 - 140	2	20
Naphthalene	ND		25.0	27.3		ug/L		109	56 - 140	6	20
Toluene	ND		25.0	24.2		ug/L		97	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	25.0		ug/L		100	60 - 140	2	20
o-Xylene	ND		25.0	26.0		ug/L		104	60 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 720-208109/5
Matrix: Water
Analysis Batch: 208109

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 19:24	1
Benzene	ND		0.50		ug/L			08/23/16 19:24	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 19:24	1
Naphthalene	ND		1.0		ug/L			08/23/16 19:24	1
Toluene	ND		0.50		ug/L			08/23/16 19:24	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 19:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*08/23/16 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*		*08/23/16 19:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/23/16 19:24*	*1*

Lab Sample ID: LCS 720-208109/6
Matrix: Water
Analysis Batch: 208109

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	21.5		ug/L		86	62 - 130
Benzene	25.0	24.4		ug/L		98	79 - 130
Ethylbenzene	25.0	24.6		ug/L		99	80 - 120
Naphthalene	25.0	21.2		ug/L		85	50 - 130
Toluene	25.0	25.1		ug/L		100	78 - 120
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	70 - 142
o-Xylene	25.0	24.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*

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

Lab Sample ID: LCS 720-208109/6
Matrix: Water
Analysis Batch: 208109

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 720-208109/8
Matrix: Water
Analysis Batch: 208109

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	531		ug/L		106	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-208109/7
Matrix: Water
Analysis Batch: 208109

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
MTBE	25.0	25.1		ug/L		100	62 - 130	15	20
Benzene	25.0	24.6		ug/L		98	79 - 130	1	20
Ethylbenzene	25.0	23.7		ug/L		95	80 - 120	4	20
Naphthalene	25.0	23.7		ug/L		95	50 - 130	11	20
Toluene	25.0	24.0		ug/L		96	78 - 120	4	20
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 142	4	20
o-Xylene	25.0	23.4		ug/L		93	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-208109/9
Matrix: Water
Analysis Batch: 208109

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	539		ug/L		108	71 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: 720-74030-6 MS
Matrix: Water
Analysis Batch: 208109

Client Sample ID: IW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	ND		25.0	25.4		ug/L		102	60 - 138
Benzene	ND		25.0	26.0		ug/L		103	60 - 140
Ethylbenzene	ND		25.0	24.4		ug/L		97	60 - 140
Naphthalene	1.2		25.0	24.5		ug/L		93	56 - 140
Toluene	ND		25.0	24.6		ug/L		98	60 - 140
m-Xylene & p-Xylene	ND		25.0	24.2		ug/L		97	60 - 140
o-Xylene	ND		25.0	24.4		ug/L		97	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-74030-6 MSD
Matrix: Water
Analysis Batch: 208109

Client Sample ID: IW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE	ND		25.0	26.2		ug/L		105	60 - 138	3	20
Benzene	ND		25.0	25.6		ug/L		101	60 - 140	2	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Naphthalene	1.2		25.0	25.7		ug/L		98	56 - 140	5	20
Toluene	ND		25.0	24.7		ug/L		98	60 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	23.6		ug/L		95	60 - 140	3	20
o-Xylene	ND		25.0	23.8		ug/L		94	60 - 140	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 720-208222/4
Matrix: Water
Analysis Batch: 208222

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/25/16 08:37	1
Benzene	ND		0.50		ug/L			08/25/16 08:37	1
Ethylbenzene	ND		0.50		ug/L			08/25/16 08:37	1
Naphthalene	ND		1.0		ug/L			08/25/16 08:37	1
Toluene	ND		0.50		ug/L			08/25/16 08:37	1
Xylenes, Total	ND		1.0		ug/L			08/25/16 08:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/25/16 08:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*08/25/16 08:37*	*1*

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

Lab Sample ID: MB 720-208222/4
Matrix: Water
Analysis Batch: 208222

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*08/25/16 08:37*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/25/16 08:37*	*1*

Lab Sample ID: LCS 720-208222/5
Matrix: Water
Analysis Batch: 208222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	28.3		ug/L		113	62 - 130
Benzene	25.0	25.7		ug/L		103	79 - 130
Ethylbenzene	25.0	24.7		ug/L		99	80 - 120
Naphthalene	25.0	24.4		ug/L		98	50 - 130
Toluene	25.0	24.3		ug/L		97	78 - 120
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142
o-Xylene	25.0	24.4		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 720-208222/7
Matrix: Water
Analysis Batch: 208222

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	523		ug/L		105	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-208222/6
Matrix: Water
Analysis Batch: 208222

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
MTBE	25.0	26.4		ug/L		106	62 - 130	7	20
Benzene	25.0	25.8		ug/L		103	79 - 130	0	20
Ethylbenzene	25.0	24.8		ug/L		99	80 - 120	1	20
Naphthalene	25.0	23.7		ug/L		95	50 - 130	3	20
Toluene	25.0	24.4		ug/L		98	78 - 120	0	20
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142	0	20
o-Xylene	25.0	24.5		ug/L		98	70 - 130	0	20

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

Lab Sample ID: LCSD 720-208222/6
Matrix: Water
Analysis Batch: 208222

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-208222/8
Matrix: Water
Analysis Batch: 208222

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	530		ug/L		106	71 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-208168/1-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*29 - 120*	*08/24/16 11:48*	*08/24/16 21:10*	*1*
Terphenyl-d14	*80*		*45 - 120*	*08/24/16 11:48*	*08/24/16 21:10*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-208168/2-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208168

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			10.0	7.49		ug/L		75	19 - 120		
Acenaphthene			10.0	7.44		ug/L		74	24 - 120		
Acenaphthylene			10.0	7.74		ug/L		77	24 - 120		
Fluorene			10.0	7.63		ug/L		76	27 - 120		
Phenanthrene			10.0	7.80		ug/L		78	31 - 120		
Anthracene			10.0	7.99		ug/L		80	44 - 120		
Benzo[a]anthracene			10.0	7.77		ug/L		78	48 - 120		
Chrysene			10.0	7.52		ug/L		75	47 - 120		
Benzo[a]pyrene			10.0	6.68		ug/L		67	43 - 120		
Benzo[b]fluoranthene			10.0	6.71		ug/L		67	42 - 120		
Benzo[k]fluoranthene			10.0	6.03		ug/L		60	42 - 120		
Benzo[g,h,i]perylene			10.0	4.72		ug/L		47	35 - 120		
Indeno[1,2,3-cd]pyrene			10.0	5.02		ug/L		50	36 - 120		
Fluoranthene			10.0	8.65		ug/L		86	43 - 120		
Pyrene			10.0	8.30		ug/L		83	47 - 120		
Dibenz(a,h)anthracene			10.0	4.95		ug/L		49	33 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*29 - 120*
Terphenyl-d14	*70*		*45 - 120*

Lab Sample ID: LCSD 720-208168/3-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208168

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			10.0	6.02		ug/L		60	19 - 120	22	35
Acenaphthene			10.0	6.08		ug/L		61	24 - 120	20	35
Acenaphthylene			10.0	6.23		ug/L		62	24 - 120	22	35
Fluorene			10.0	6.27		ug/L		63	27 - 120	20	35
Phenanthrene			10.0	6.67		ug/L		67	31 - 120	16	35
Anthracene			10.0	6.99		ug/L		70	44 - 120	13	35
Benzo[a]anthracene			10.0	7.28		ug/L		73	48 - 120	7	35
Chrysene			10.0	7.06		ug/L		71	47 - 120	6	35
Benzo[a]pyrene			10.0	6.19		ug/L		62	43 - 120	8	35
Benzo[b]fluoranthene			10.0	6.54		ug/L		65	42 - 120	3	35
Benzo[k]fluoranthene			10.0	5.64		ug/L		56	42 - 120	7	35
Benzo[g,h,i]perylene			10.0	4.39		ug/L		44	35 - 120	7	35
Indeno[1,2,3-cd]pyrene			10.0	4.73		ug/L		47	36 - 120	6	35
Fluoranthene			10.0	7.84		ug/L		78	43 - 120	10	35
Pyrene			10.0	7.74		ug/L		77	47 - 120	7	35
Dibenz(a,h)anthracene			10.0	4.63		ug/L		46	33 - 120	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*29 - 120*
Terphenyl-d14	*66*		*45 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 440-350932/8
Matrix: Water
Analysis Batch: 350932

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			08/22/16 10:21	1
Methane (TCD)	ND		1.0		mg/L			08/22/16 10:21	1

Lab Sample ID: LCS 440-350932/4
Matrix: Water
Analysis Batch: 350932

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	4.19	3.75		mg/L		89	80 - 120

Lab Sample ID: LCS 440-350932/6
Matrix: Water
Analysis Batch: 350932

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (FID)	0.0839	0.0917		mg/L		109	80 - 120

Lab Sample ID: LCSD 440-350932/5
Matrix: Water
Analysis Batch: 350932

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)	4.19	3.91		mg/L		93	80 - 120	4	20

Lab Sample ID: LCSD 440-350932/7
Matrix: Water
Analysis Batch: 350932

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)	0.0839	0.0827		mg/L		99	80 - 120	10	20

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

Lab Sample ID: MB 720-208007/1-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/22/16 10:53	08/22/16 23:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*72*		*23 - 156*	*08/22/16 10:53*	*08/22/16 23:43*	*1*

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

Lab Sample ID: LCS 720-208007/2-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1940		ug/L		78	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*80*		*23 - 156*

Lab Sample ID: LCSD 720-208007/3-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2100		ug/L		84	34 - 115	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*90*		*23 - 156*

Lab Sample ID: MB 720-208048/1-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/22/16 18:31	08/24/16 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 5*	*08/22/16 18:31*	*08/24/16 22:11*	*1*
p-Terphenyl	*65*		*31 - 150*	*08/22/16 18:31*	*08/24/16 22:11*	*1*

Lab Sample ID: LCS 720-208048/2-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1410		ug/L		57	32 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*82*		*31 - 150*

Lab Sample ID: LCSD 720-208048/3-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1330		ug/L		53	32 - 119	6	35

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

Lab Sample ID: LCSD 720-208048/3-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*78*		*31 - 150*

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-348805/1
Matrix: Water
Analysis Batch: 348805

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			08/23/16 03:19	1

Lab Sample ID: LCS 500-348805/2
Matrix: Water
Analysis Batch: 348805

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	294		mg/L		118	80 - 120

Lab Sample ID: 720-74030-3 MS
Matrix: Water
Analysis Batch: 348805

Client Sample ID: IW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1600		250	1910	4	mg/L		118	75 - 125

Lab Sample ID: 720-74030-3 DU
Matrix: Water
Analysis Batch: 348805

Client Sample ID: IW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1600		1630		mg/L		0.7	5

Lab Sample ID: 720-74030-4 DU
Matrix: Water
Analysis Batch: 348805

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1300		1360		mg/L		2	5

GC/MS VOA

Analysis Batch: 208055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-2	MW-17	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-3	IW-5	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-208055/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208055/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208055/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208055/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208055/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-1 MS	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-1 MSD	MW-10	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 208109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-6	IW-6	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-7	MW-21	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-8	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-9	MW-28	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-10	MW-25	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-11	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-12	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-13	IW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-14	MW-29	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-208109/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208109/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208109/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208109/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208109/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-6 MS	IW-6	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-6 MSD	IW-6	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 208222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-5	MW-18	Total/NA	Water	8260B/CA_LUFT MS	
720-74030-14	MW-29	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-208222/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208222/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208222/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208222/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208222/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 208168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	3510C	
720-74030-2	MW-17	Total/NA	Water	3510C	
720-74030-3	IW-5	Total/NA	Water	3510C	
720-74030-4	MW-3	Total/NA	Water	3510C	
720-74030-5	MW-18	Total/NA	Water	3510C	
720-74030-6	IW-6	Total/NA	Water	3510C	
720-74030-7	MW-21	Total/NA	Water	3510C	
720-74030-8	MW-8	Total/NA	Water	3510C	
720-74030-9	MW-28	Total/NA	Water	3510C	
720-74030-10	MW-25	Total/NA	Water	3510C	
720-74030-11	MW-4	Total/NA	Water	3510C	
720-74030-12	MW-15	Total/NA	Water	3510C	
720-74030-13	IW-4	Total/NA	Water	3510C	
720-74030-14	MW-29	Total/NA	Water	3510C	
MB 720-208168/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208168/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208168/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 208219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	8270C SIM	208168
720-74030-2	MW-17	Total/NA	Water	8270C SIM	208168
720-74030-4	MW-3	Total/NA	Water	8270C SIM	208168
720-74030-5	MW-18	Total/NA	Water	8270C SIM	208168
720-74030-6	IW-6	Total/NA	Water	8270C SIM	208168
720-74030-7	MW-21	Total/NA	Water	8270C SIM	208168
720-74030-8	MW-8	Total/NA	Water	8270C SIM	208168
720-74030-9	MW-28	Total/NA	Water	8270C SIM	208168
720-74030-12	MW-15	Total/NA	Water	8270C SIM	208168
720-74030-14	MW-29	Total/NA	Water	8270C SIM	208168
MB 720-208168/1-A	Method Blank	Total/NA	Water	8270C SIM	208168

GC/MS Semi VOA (Continued)

Analysis Batch: 208219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-208168/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	208168
LCSD 720-208168/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	208168

Analysis Batch: 208257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-3	IW-5	Total/NA	Water	8270C SIM	208168
720-74030-10	MW-25	Total/NA	Water	8270C SIM	208168
720-74030-10	MW-25	Total/NA	Water	8270C SIM	208168
720-74030-11	MW-4	Total/NA	Water	8270C SIM	208168
720-74030-13	IW-4	Total/NA	Water	8270C SIM	208168

GC VOA

Analysis Batch: 350932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	RSK-175	
720-74030-2	MW-17	Total/NA	Water	RSK-175	
720-74030-3	IW-5	Total/NA	Water	RSK-175	
720-74030-4	MW-3	Total/NA	Water	RSK-175	
720-74030-5	MW-18	Total/NA	Water	RSK-175	
720-74030-6	IW-6	Total/NA	Water	RSK-175	
720-74030-7	MW-21	Total/NA	Water	RSK-175	
720-74030-8	MW-8	Total/NA	Water	RSK-175	
720-74030-9	MW-28	Total/NA	Water	RSK-175	
720-74030-10	MW-25	Total/NA	Water	RSK-175	
720-74030-11	MW-4	Total/NA	Water	RSK-175	
720-74030-12	MW-15	Total/NA	Water	RSK-175	
720-74030-13	IW-4	Total/NA	Water	RSK-175	
720-74030-14	MW-29	Total/NA	Water	RSK-175	
MB 440-350932/8	Method Blank	Total/NA	Water	RSK-175	
LCS 440-350932/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 440-350932/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 440-350932/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 440-350932/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC Semi VOA

Analysis Batch: 207987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	8015B	208007
720-74030-2	MW-17	Total/NA	Water	8015B	208007
720-74030-6	IW-6	Total/NA	Water	8015B	208007
720-74030-8	MW-8	Total/NA	Water	8015B	208007
720-74030-9	MW-28	Total/NA	Water	8015B	208007
720-74030-10	MW-25	Total/NA	Water	8015B	208007
720-74030-11	MW-4	Total/NA	Water	8015B	208007

Analysis Batch: 207989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-12	MW-15	Total/NA	Water	8015B	208007

GC Semi VOA (Continued)

Analysis Batch: 207989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-13	IW-4	Total/NA	Water	8015B	208007
720-74030-14	MW-29	Total/NA	Water	8015B	208007
MB 720-208007/1-A	Method Blank	Total/NA	Water	8015B	208007
LCS 720-208007/2-A	Lab Control Sample	Total/NA	Water	8015B	208007
LCSD 720-208007/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	208007

Analysis Batch: 207990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-5	MW-18	Total/NA	Water	8015B	208007

Prep Batch: 208007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	3510C	
720-74030-2	MW-17	Total/NA	Water	3510C	
720-74030-3	IW-5	Total/NA	Water	3510C	
720-74030-4	MW-3	Total/NA	Water	3510C	
720-74030-5	MW-18	Total/NA	Water	3510C	
720-74030-6	IW-6	Total/NA	Water	3510C	
720-74030-7	MW-21	Total/NA	Water	3510C	
720-74030-8	MW-8	Total/NA	Water	3510C	
720-74030-9	MW-28	Total/NA	Water	3510C	
720-74030-10	MW-25	Total/NA	Water	3510C	
720-74030-11	MW-4	Total/NA	Water	3510C	
720-74030-12	MW-15	Total/NA	Water	3510C	
720-74030-13	IW-4	Total/NA	Water	3510C	
720-74030-14	MW-29	Total/NA	Water	3510C	
MB 720-208007/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208007/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208007/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 208048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Silica Gel Cleanup	Water	3510C SGC	
720-74030-2	MW-17	Silica Gel Cleanup	Water	3510C SGC	
720-74030-3	IW-5	Silica Gel Cleanup	Water	3510C SGC	
720-74030-4	MW-3	Silica Gel Cleanup	Water	3510C SGC	
720-74030-5	MW-18	Silica Gel Cleanup	Water	3510C SGC	
720-74030-6	IW-6	Silica Gel Cleanup	Water	3510C SGC	
720-74030-7	MW-21	Silica Gel Cleanup	Water	3510C SGC	
720-74030-8	MW-8	Silica Gel Cleanup	Water	3510C SGC	
720-74030-9	MW-28	Silica Gel Cleanup	Water	3510C SGC	
720-74030-10	MW-25	Silica Gel Cleanup	Water	3510C SGC	
720-74030-11	MW-4	Silica Gel Cleanup	Water	3510C SGC	
720-74030-12	MW-15	Silica Gel Cleanup	Water	3510C SGC	
720-74030-13	IW-4	Silica Gel Cleanup	Water	3510C SGC	
720-74030-14	MW-29	Silica Gel Cleanup	Water	3510C SGC	
MB 720-208048/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-208048/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-208048/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

GC Semi VOA (Continued)

Analysis Batch: 208061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-3	IW-5	Total/NA	Water	8015B	208007
720-74030-4	MW-3	Total/NA	Water	8015B	208007
720-74030-7	MW-21	Total/NA	Water	8015B	208007

Analysis Batch: 208131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Silica Gel Cleanup	Water	8015B	208048
720-74030-2	MW-17	Silica Gel Cleanup	Water	8015B	208048
720-74030-4	MW-3	Silica Gel Cleanup	Water	8015B	208048
720-74030-5	MW-18	Silica Gel Cleanup	Water	8015B	208048
720-74030-7	MW-21	Silica Gel Cleanup	Water	8015B	208048
720-74030-11	MW-4	Silica Gel Cleanup	Water	8015B	208048

Analysis Batch: 208132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-8	MW-8	Silica Gel Cleanup	Water	8015B	208048
720-74030-9	MW-28	Silica Gel Cleanup	Water	8015B	208048
720-74030-12	MW-15	Silica Gel Cleanup	Water	8015B	208048

Analysis Batch: 208133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-10	MW-25	Silica Gel Cleanup	Water	8015B	208048
720-74030-13	IW-4	Silica Gel Cleanup	Water	8015B	208048
720-74030-14	MW-29	Silica Gel Cleanup	Water	8015B	208048

Analysis Batch: 208134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-3	IW-5	Silica Gel Cleanup	Water	8015B	208048
720-74030-6	IW-6	Silica Gel Cleanup	Water	8015B	208048
MB 720-208048/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	208048
LCS 720-208048/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	208048
LCSD 720-208048/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	208048

General Chemistry

Analysis Batch: 348805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-1	MW-10	Total/NA	Water	SM 2540C	
720-74030-2	MW-17	Total/NA	Water	SM 2540C	
720-74030-3	IW-5	Total/NA	Water	SM 2540C	
720-74030-4	MW-3	Total/NA	Water	SM 2540C	
720-74030-5	MW-18	Total/NA	Water	SM 2540C	
720-74030-6	IW-6	Total/NA	Water	SM 2540C	
720-74030-7	MW-21	Total/NA	Water	SM 2540C	
720-74030-8	MW-8	Total/NA	Water	SM 2540C	
720-74030-9	MW-28	Total/NA	Water	SM 2540C	
720-74030-10	MW-25	Total/NA	Water	SM 2540C	
720-74030-11	MW-4	Total/NA	Water	SM 2540C	
720-74030-12	MW-15	Total/NA	Water	SM 2540C	
720-74030-13	IW-4	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 348805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74030-14	MW-29	Total/NA	Water	SM 2540C	
MB 500-348805/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-348805/2	Lab Control Sample	Total/NA	Water	SM 2540C	
720-74030-3 MS	IW-5	Total/NA	Water	SM 2540C	
720-74030-3 DU	IW-5	Total/NA	Water	SM 2540C	
720-74030-4 DU	MW-3	Total/NA	Water	SM 2540C	

Client Sample ID: MW-10

Lab Sample ID: 720-74030-1

Date Collected: 08/18/16 12:40

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208055	08/23/16 16:01	JRM	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 21:33	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 10:50	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/24/16 19:36	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 19:16	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 03:34	CLB	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 720-74030-2

Date Collected: 08/18/16 13:00

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208055	08/23/16 17:29	JRM	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 21:57	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 11:07	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/24/16 20:06	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 19:40	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 03:37	CLB	TAL CHI

Client Sample ID: IW-5

Lab Sample ID: 720-74030-3

Date Collected: 08/18/16 13:30

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208055	08/23/16 17:58	JRM	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		10	208257	08/25/16 13:33	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 11:19	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	208134	08/24/16 20:33	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		20	208061	08/23/16 16:19	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 03:41	CLB	TAL CHI

Client Sample ID: MW-3

Lab Sample ID: 720-74030-4

Date Collected: 08/18/16 13:40

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208222	08/25/16 13:01	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 22:44	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 11:32	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/24/16 23:39	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		10	208061	08/23/16 15:49	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 03:52	CLB	TAL CHI

Client Sample ID: MW-18

Lab Sample ID: 720-74030-5

Date Collected: 08/18/16 14:40

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208222	08/25/16 14:58	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 23:08	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 11:45	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/24/16 20:35	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207990	08/23/16 00:08	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 03:59	CLB	TAL CHI

Client Sample ID: IW-6

Lab Sample ID: 720-74030-6

Date Collected: 08/18/16 14:55

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/23/16 22:36	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 23:32	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 11:58	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208134	08/24/16 19:45	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 22:06	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:03	CLB	TAL CHI

Client Sample ID: MW-21

Lab Sample ID: 720-74030-7

Date Collected: 08/18/16 14:35

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/23/16 23:04	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/24/16 23:55	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 12:25	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/25/16 00:08	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		2	208061	08/23/16 13:19	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:06	CLB	TAL CHI

Client Sample ID: MW-8

Lab Sample ID: 720-74030-8

Date Collected: 08/18/16 14:15

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/23/16 23:31	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 00:19	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 12:38	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208132	08/24/16 19:36	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 20:04	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:10	CLB	TAL CHI

Client Sample ID: MW-28

Lab Sample ID: 720-74030-9

Date Collected: 08/18/16 12:50

Matrix: Water

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/23/16 23:59	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 00:43	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 13:33	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208132	08/24/16 20:06	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 21:18	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:14	CLB	TAL CHI

Client Sample ID: MW-25

Date Collected: 08/18/16 12:20
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	208109	08/24/16 00:27	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		100	208257	08/25/16 13:57	MQL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		10	208257	08/25/16 14:44	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 13:46	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208133	08/24/16 19:45	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207987	08/22/16 21:42	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:17	CLB	TAL CHI

Client Sample ID: MW-4

Date Collected: 08/18/16 13:32
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-11
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	208109	08/24/16 00:54	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 13:09	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 13:58	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208131	08/25/16 00:37	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		2	207987	08/23/16 00:07	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:21	CLB	TAL CHI

Client Sample ID: MW-15

Date Collected: 08/18/16 12:15
Date Received: 08/18/16 16:35

Lab Sample ID: 720-74030-12
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	208109	08/24/16 01:22	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 01:54	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 14:11	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208132	08/24/16 20:35	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207989	08/22/16 21:42	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:25	CLB	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 720-74030-1

Client Sample ID: IW-4

Lab Sample ID: 720-74030-13

Date Collected: 08/18/16 14:05
Matrix: Water
Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 01:49	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		2	208257	08/25/16 14:20	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 14:24	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	208133	08/24/16 21:46	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		5	207989	08/22/16 22:30	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:28	CLB	TAL CHI

Client Sample ID: MW-29

Lab Sample ID: 720-74030-14

Date Collected: 08/18/16 11:35
Matrix: Water
Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208222	08/25/16 12:32	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 02:17	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 02:41	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	350932	08/22/16 14:37	ART	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208133	08/24/16 20:09	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 10:53	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207989	08/22/16 20:53	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348805	08/23/16 04:32	CLB	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

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

TestAmerica Job ID: 720-74030-1

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	01-31-18

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
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-16 *
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-16 *
South Carolina	State Program	4	77001	04-30-16 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16 *
Wyoming	State Program	8	8TMS-Q	04-30-17

Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-17
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16 *
Nevada	State Program	9	CA015312016-2	07-31-17 *
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-17
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-16

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 720-74030-1

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 IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

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 IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

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

TestAmerica Job ID: 720-74030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74030-1	MW-10	Water	08/18/16 12:40	08/18/16 16:35
720-74030-2	MW-17	Water	08/18/16 13:00	08/18/16 16:35
720-74030-3	IW-5	Water	08/18/16 13:30	08/18/16 16:35
720-74030-4	MW-3	Water	08/18/16 13:40	08/18/16 16:35
720-74030-5	MW-18	Water	08/18/16 14:40	08/18/16 16:35
720-74030-6	IW-6	Water	08/18/16 14:55	08/18/16 16:35
720-74030-7	MW-21	Water	08/18/16 14:35	08/18/16 16:35
720-74030-8	MW-8	Water	08/18/16 14:15	08/18/16 16:35
720-74030-9	MW-28	Water	08/18/16 12:50	08/18/16 16:35
720-74030-10	MW-25	Water	08/18/16 12:20	08/18/16 16:35
720-74030-11	MW-4	Water	08/18/16 13:32	08/18/16 16:35
720-74030-12	MW-15	Water	08/18/16 12:15	08/18/16 16:35
720-74030-13	IW-4	Water	08/18/16 14:05	08/18/16 16:35
720-74030-14	MW-29	Water	08/18/16 11:35	08/18/16 16:35

BLAINE TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 160818-CK1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

LAB: TA - SF | DHS #: 170497

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

SPECIAL INSTRUCTIONS 720-74030
Invoice and Report to : Arcadis U.S., Inc.
Attn: Hugh Devery hugh.devery@arcadis-us.com
770-428-9009

Low Detection levels requested

8/25/2016

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 (8260)	DRO with and without SGC (8015M)	Disslved Methane (RSK-175)	TDS (SM2540)	PAH's, Naththalene (8270)				ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-10	8/18/16	1240	W	11	mix		X	X	X	X	X							1
MW-17		1300	W	11	mix		X	X	X	X	X							2
IW-5		1330	W	11	mix		X	X	X	X	X							3
MW-3		1340	W	11	mix		X	X	X	X	X							4
MW-18		1440	W	11	mix		X	X	X	X	X							5
IW-6		1455	W	11	mix		X	X	X	X	X							6
MW-21		1435	W	11	mix		X	X	X	X	X							7
MW-8		1415	W	11	mix		X	X	X	X	X							8
MW-28		1250	W	11	mix		X	X	X	X	X							9
MW-25		1220	W	11	mix		X	X	X	X	X							10

SAMPLING COMPLETED: DATE 8/18/16 TIME 1500
SAMPLING PERFORMED BY: Coren Kinsman / Greg Roberts

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	8/18/16	1535		8/18/16	1535
	8/18/16	1635		8/18/16	1635

SHIPPED VIA

720-74030 Chain of Custody

DATE SENT	TIME SENT	COOLER #
		6.0, 5.9, 5.5, 4.1, 5.0°C

BLAINE
TECH SERVICES, INC

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

8/25/2016

CHAIN OF CUSTODY BTS # 160818-CK1

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 170497

SPECIAL INSTRUCTIONS 720-74030

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 (8260)	DRO with and without SGC (8015M)	Disslved Methane (RSK-175)	TDS (SM2540)	PAH's, Naththalene (8270)			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-4	8/18/16	1332	W	11	mix	X	X	X	X	X	X						11
MW-15	8/18/16	1215	W	11	mix	X	X	X	X	X	X						12
IW-4	8/18/16	1405	W	11	mix	X	X	X	X	X	X						13
MW-29	8/18/16	1135	W	11	mix	X	X	X	X	X	X						14

SAMPLING COMPLETED DATE 8/18/16 TIME 1500
SAMPLING PERFORMED BY Colin Rowland BTS Greg Roberts

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	8/18/16	1535		8/18/16	1535
	8/18/16	1635		8/18/16	1635
	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30054.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 720-74030-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 8/24/2016			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: UPS-Oakland	Project #: 72000550			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
MW-10 (720-74030-1)	8/18/16	12:40 Pacific		Water			X	3	
MW-17 (720-74030-2)	8/18/16	13:00 Pacific		Water			X	3	
IW-5 (720-74030-3)	8/18/16	13:30 Pacific		Water			X	3	
MW-3 (720-74030-4)	8/18/16	13:40 Pacific		Water			X	3	
MW-18 (720-74030-5)	8/18/16	14:40 Pacific		Water			X	3	
IW-6 (720-74030-6)	8/18/16	14:55 Pacific		Water			X	3	
MW-21 (720-74030-7)	8/18/16	14:35 Pacific		Water			X	3	
MW-8 (720-74030-8)	8/18/16	14:15 Pacific		Water			X	3	
MW-28 (720-74030-9)	8/18/16	12:50 Pacific		Water			X	3	
MW-25 (720-74030-10)	8/18/16	12:20 Pacific		Water			X	3	
MW-4 (720-74030-11)	8/18/16	13:32 Pacific		Water			X	3	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/19/16 1430	TA	[signature]	8/20/16 1040	TA+
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6/3.6 #178

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8/25/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30054.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc				Job #: 720-74030-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 8/24/2016			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: UPS-Oakland	Project #: 72000550			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15 (720-74030-12)	8/18/16	12:15 Pacific		Water			X	3	
IW-4 (720-74030-13)	8/18/16	14:05 Pacific		Water			X	3	
MW-29 (720-74030-14)	8/18/16	11:35 Pacific		Water			X	3	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/19/16 1430			8/20/16 1040	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.8/3.6 #78

8/25/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30053.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 720-74030-1
Address: 2417 Bond Street,	Due Date Requested: 8/24/2016			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(F.	PO #:			
Email:	WO #:			
Project Name: UPS-Oakland	Project #: 72000550			
Site:	SSOW#:			

720-74030 COC

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-10 (720-74030-1)	8/18/16	12:40 Pacific		Water			X	1	
MW-17 (720-74030-2)	8/18/16	13:00 Pacific		Water			X	1	
IW-5 (720-74030-3)	8/18/16	13:30 Pacific		Water			X	1	
MW-3 (720-74030-4)	8/18/16	13:40 Pacific		Water			X	1	
MW-18 (720-74030-5)	8/18/16	14:40 Pacific		Water			X	1	
IW-6 (720-74030-6)	8/18/16	14:55 Pacific		Water			X	1	
MW-21 (720-74030-7)	8/18/16	14:35 Pacific		Water			X	1	
MW-8 (720-74030-8)	8/18/16	14:15 Pacific		Water			X	1	
MW-28 (720-74030-9)	8/18/16	12:50 Pacific		Water			X	1	
MW-25 (720-74030-10)	8/18/16	12:20 Pacific		Water			X	1	
MW-4 (720-74030-11)	8/18/16	13:32 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) *Primary Deliverable Rank: 2*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/19/16 1430			8/22/16 0915	TA-CHT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30053.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 720-74030-1
Address: 2417 Bond Street,	Due Date Requested: 8/24/2016			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	WO #:			
Email:	Project #: 72000550			
Project Name: UPS-Oakland	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15 (720-74030-12)	8/18/16	12:15 Pacific		Water			X		
IW-4 (720-74030-13)	8/18/16	14:05 Pacific		Water			X		
MW-29 (720-74030-14)	8/18/16	11:35 Pacific		Water			X		

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/19/16 1430	Company: TA	Received by:	Date/Time: 8/22/16 0915	Company: TA-CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74030-1

Login Number: 74030
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

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

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74030-1

Login Number: 74030
List Number: 3
Creator: Scott, Sherri L

List Source: TestAmerica Chicago
List Creation: 08/22/16 09:12 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	0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74030-1

Login Number: 74030
List Number: 2
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine
List Creation: 08/20/16 12:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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

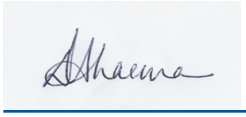
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-74045-1
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:
9/2/2016 3:49:16 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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: 720-74045-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-74045-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.0º C, 4.5º C, 4.6º C and 4.7º C.

GC/MS VOA
Method 8260B: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-11 (720-74045-1), MW-16 (720-74045-2), MW-9 (720-74045-5), MW-26 (720-74045-8) and IW-3 (720-74045-9).

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

GC/MS Semi VOA
Method 8270C SIM: Surrogate recovery for the following samples was outside control limits: MW-11 (720-74045-1), MW-19 (720-74045-6), MW-27 (720-74045-7), MW-26 (720-74045-8), MW-13 (720-74045-10) and MW-23 (720-74045-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA
Method RSK-175: The following samples were improperly preserved in the field: MW-11 (720-74045-1), MW-16 (720-74045-2), MW-9 (720-74045-5), MW-26 (720-74045-8), IW-3 (720-74045-9), MW-13 (720-74045-10) and MW-23 (720-74045-11). Although the samples were preserved with hydrochloric acid, the pH on the test strip read between 3 and 7, and the samples exhibited extreme effervescence. As there is no reference to an unpreserved holding time and the samples were analyzed within 14 days, no holding time violation is noted. RSK-175 batch 280-340541 Details are as follow:

720-74045-01	pH 6-7
720-74045-02	pH 2-3
720-74045-05	pH 6-7
720-74045-08	pH 4-5
720-74045-09	pH 6-7
720-74045-10	pH 2-3
720-74045-11	pH 4-5

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

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

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

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

Detection Summary

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-11 — Lab Sample ID: 720-74045-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	63		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Methane	11000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	870		52		ug/L	1		8015B	Total/NA
Total Dissolved Solids	4000		25		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 720-74045-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	9700		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	430		53		ug/L	1		8015B	Total/NA
Total Dissolved Solids	5300		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 720-74045-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	8700		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	58		54		ug/L	1		8015B	Total/NA
Total Dissolved Solids	5900		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 720-74045-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	5900		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	4200		49		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	130		49		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	2400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-74045-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	8000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	160		54		ug/L	1		8015B	Total/NA
Total Dissolved Solids	14000		100		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 720-74045-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.28		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.28		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.33		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.28		0.10		ug/L	1		8270C SIM	Total/NA
Methane	6400		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	980		52		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	180		52		ug/L	1		8015B	Silica Gel Cleanup
Total Dissolved Solids	5200		33		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 720-74045-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-27 (Continued) — Lab Sample ID: 720-74045-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	6900		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	590		51		ug/L	1		8015B	Total/NA
Total Dissolved Solids	2000		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-26 — Lab Sample ID: 720-74045-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.11		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.31		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.18		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.26		0.10		ug/L	1		8270C SIM	Total/NA
Methane	11000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	220		51		ug/L	1		8015B	Total/NA
Total Dissolved Solids	1600		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: IW-3 — Lab Sample ID: 720-74045-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.20		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	1.2		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.67		0.10		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.38		0.10		ug/L	1		8270C SIM	Total/NA
Methane	8600		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	480		53		ug/L	1		8015B	Total/NA
Total Dissolved Solids	1900		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 720-74045-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.13		0.10		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.25		0.10		ug/L	1		8270C SIM	Total/NA
Fluorene	0.30		0.10		ug/L	1		8270C SIM	Total/NA
Methane	12000		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	850		51		ug/L	1		8015B	Total/NA
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 720-74045-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	78		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.94		0.097		ug/L	1		8270C SIM	Total/NA
Acenaphthene	0.75		0.097		ug/L	1		8270C SIM	Total/NA
Fluorene	1.3		0.097		ug/L	1		8270C SIM	Total/NA
Phenanthrene	0.93		0.097		ug/L	1		8270C SIM	Total/NA
Methane	9900		5.0		ug/L	1		RSK-175	Total/NA
Diesel Range Organics [C10-C28]	3400		47		ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	1400		47		ug/L	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-23 (Continued)

Lab Sample ID: 720-74045-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1700		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11

Date Collected: 08/19/16 09:45
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 02:45	1
Benzene	ND		0.50		ug/L			08/24/16 02:45	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 02:45	1
Naphthalene	ND		1.0		ug/L			08/24/16 02:45	1
Toluene	ND		0.50		ug/L			08/24/16 02:45	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 02:45	1
Gasoline Range Organics (GRO) -C5-C12	**63**		50		ug/L			08/24/16 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*08/24/16 02:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*08/24/16 02:45*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*08/24/16 02:45*	*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		08/24/16 11:48	08/25/16 03:05	1
Acenaphthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Acenaphthylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Fluorene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Phenanthrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Benzo[a]anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Chrysene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Benzo[a]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Benzo[b]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Benzo[k]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*39*		*29 - 120*	*08/24/16 11:48*	*08/25/16 03:05*	*1*
Terphenyl-d14	*37*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 03:05*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11000**		5.0		ug/L			09/01/16 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**870**		52		ug/L		08/25/16 10:34	08/26/16 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*79*		*23 - 156*	*08/25/16 10:34*	*08/26/16 12:33*	*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		08/25/16 17:48	08/26/16 16:15	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-11
Date Collected: 08/19/16 09:45
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0002*		*0 - 5*	*08/25/16 17:48*	*08/26/16 16:15*	*1*
p-Terphenyl	*71*		*31 - 150*	*08/25/16 17:48*	*08/26/16 16:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4000		25		mg/L			08/24/16 03:09	1

Client Sample ID: MW-16

Date Collected: 08/19/16 10:05
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 03:12	1
Benzene	ND		0.50		ug/L			08/24/16 03:12	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 03:12	1
Naphthalene	ND		1.0		ug/L			08/24/16 03:12	1
Toluene	ND		0.50		ug/L			08/24/16 03:12	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 03:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/24/16 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*08/24/16 03:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*08/24/16 03:12*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/24/16 03:12*	*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		08/24/16 11:48	08/25/16 03:29	1
Acenaphthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Acenaphthylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Fluorene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Phenanthrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Benzo[a]anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Chrysene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Benzo[a]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Benzo[b]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Benzo[k]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*29 - 120*	*08/24/16 11:48*	*08/25/16 03:29*	*1*
Terphenyl-d14	*49*		*45 - 120*	*08/24/16 11:48*	*08/25/16 03:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9700**		5.0		ug/L			09/01/16 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**430**		53		ug/L		08/25/16 10:34	08/25/16 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*23 - 156*	*08/25/16 10:34*	*08/25/16 23:37*	*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		53		ug/L		08/25/16 17:48	08/26/16 16:40	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-16
Date Collected: 08/19/16 10:05
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.05*		*0 - 5*	*08/25/16 17:48*	*08/26/16 16:40*	*1*
p-Terphenyl	*74*		*31 - 150*	*08/25/16 17:48*	*08/26/16 16:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**5300**		33		mg/L			08/24/16 03:12	1

Client Sample ID: MW-14

Date Collected: 08/19/16 10:25
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 03:40	1
Benzene	ND		0.50		ug/L			08/24/16 03:40	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 03:40	1
Naphthalene	ND		1.0		ug/L			08/24/16 03:40	1
Toluene	ND		0.50		ug/L			08/24/16 03:40	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 03:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/24/16 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*08/24/16 03:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*08/24/16 03:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/24/16 03:40*	*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		08/24/16 11:48	08/25/16 03:52	1
Acenaphthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Acenaphthylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Fluorene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Phenanthrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Benzo[a]anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Chrysene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Benzo[a]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Benzo[b]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Benzo[k]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*29 - 120*	*08/24/16 11:48*	*08/25/16 03:52*	*1*
Terphenyl-d14	*61*		*45 - 120*	*08/24/16 11:48*	*08/25/16 03:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8700**		5.0		ug/L			09/01/16 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]	**58**		54		ug/L		08/25/16 10:34	08/25/16 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*23 - 156*	*08/25/16 10:34*	*08/25/16 23:12*	*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		54		ug/L		08/25/16 17:48	08/26/16 17:04	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-14
Date Collected: 08/19/16 10:25
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 5*	*08/25/16 17:48*	*08/26/16 17:04*	*1*
p-Terphenyl	*84*		*31 - 150*	*08/25/16 17:48*	*08/26/16 17:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5900		33		mg/L			08/24/16 03:15	1

Client Sample ID: MW-20
Date Collected: 08/19/16 10:40
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 04:08	1
Benzene	ND		0.50		ug/L			08/24/16 04:08	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 04:08	1
Naphthalene	ND		1.0		ug/L			08/24/16 04:08	1
Toluene	ND		0.50		ug/L			08/24/16 04:08	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 04:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/24/16 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*08/24/16 04:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*08/24/16 04:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/24/16 04:08*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Acenaphthene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Acenaphthylene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Fluorene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Phenanthrene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Anthracene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Benzo[a]anthracene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Chrysene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Benzo[a]pyrene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Benzo[b]fluoranthene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Benzo[k]fluoranthene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Benzo[g,h,i]perylene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Indeno[1,2,3-cd]pyrene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Fluoranthene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Pyrene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1
Dibenz(a,h)anthracene	ND		0.098		ug/L		08/24/16 11:48	08/25/16 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*29 - 120*	*08/24/16 11:48*	*08/25/16 04:16*	*1*
Terphenyl-d14	*46*		*45 - 120*	*08/24/16 11:48*	*08/25/16 04:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5900**		5.0		ug/L			09/01/16 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4200**		49		ug/L		08/25/16 10:34	08/26/16 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*85*		*23 - 156*	*08/25/16 10:34*	*08/26/16 00:25*	*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]	**130**		49		ug/L		08/25/16 17:48	08/26/16 17:28	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-20
Date Collected: 08/19/16 10:40
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5	08/25/16 17:48	08/26/16 17:28	1
p-Terphenyl	88		31 - 150	08/25/16 17:48	08/26/16 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2400		10		mg/L			08/24/16 03:19	1

Client Sample ID: MW-9

Date Collected: 08/19/16 11:00
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 04:35	1
Benzene	ND		0.50		ug/L			08/24/16 04:35	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 04:35	1
Naphthalene	ND		1.0		ug/L			08/24/16 04:35	1
Toluene	ND		0.50		ug/L			08/24/16 04:35	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 04:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/24/16 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*08/24/16 04:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*72 - 130*		*08/24/16 04:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/24/16 04:35*	*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		08/24/16 11:48	08/25/16 04:40	1
Acenaphthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Acenaphthylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Fluorene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Phenanthrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Benzo[a]anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Chrysene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Benzo[a]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Benzo[b]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Benzo[k]fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Fluoranthene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Pyrene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		08/24/16 11:48	08/25/16 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*29 - 120*	*08/24/16 11:48*	*08/25/16 04:40*	*1*
Terphenyl-d14	*50*		*45 - 120*	*08/24/16 11:48*	*08/25/16 04:40*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8000**		5.0		ug/L			09/01/16 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		54		ug/L		08/25/16 10:34	08/25/16 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*23 - 156*	*08/25/16 10:34*	*08/25/16 22:48*	*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]	ND		54		ug/L		08/25/16 17:48	08/26/16 17:52	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-9
Date Collected: 08/19/16 11:00
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0002*		*0 - 5*	*08/25/16 17:48*	*08/26/16 17:52*	*1*
p-Terphenyl	*90*		*31 - 150*	*08/25/16 17:48*	*08/26/16 17:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14000		100		mg/L			08/24/16 03:22	1

Client Sample ID: MW-19
Date Collected: 08/19/16 11:20
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/24/16 05:03	1
Benzene	ND		0.50		ug/L			08/24/16 05:03	1
Ethylbenzene	ND		0.50		ug/L			08/24/16 05:03	1
Naphthalene	ND		1.0		ug/L			08/24/16 05:03	1
Toluene	ND		0.50		ug/L			08/24/16 05:03	1
Xylenes, Total	ND		1.0		ug/L			08/24/16 05:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/24/16 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*08/24/16 05:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*08/24/16 05:03*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/24/16 05:03*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.28**		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Acenaphthene	**0.28**		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Fluorene	**0.33**		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Phenanthrene	**0.28**		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/25/16 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*29 - 120*	*08/24/16 11:48*	*08/25/16 05:03*	*1*
Terphenyl-d14	*36*	*X*	*45 - 120*	*08/24/16 11:48*	*08/25/16 05:03*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6400**		5.0		ug/L			09/01/16 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**980**		52		ug/L		08/25/16 10:34	08/26/16 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*74*		*23 - 156*	*08/25/16 10:34*	*08/26/16 01:37*	*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]	**180**		52		ug/L		08/25/16 17:48	08/26/16 18:17	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-19
Date Collected: 08/19/16 11:20
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 5*	*08/25/16 17:48*	*08/26/16 18:17*	*1*
p-Terphenyl	*72*		*31 - 150*	*08/25/16 17:48*	*08/26/16 18:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5200		33		mg/L			08/24/16 03:25	1

Client Sample ID: MW-27
Date Collected: 08/19/16 11:45
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/27/16 01:53	1
Benzene	ND		0.50		ug/L			08/27/16 01:53	1
Ethylbenzene	ND		0.50		ug/L			08/27/16 01:53	1
Naphthalene	ND		1.0		ug/L			08/27/16 01:53	1
Toluene	ND		0.50		ug/L			08/27/16 01:53	1
Xylenes, Total	ND		1.0		ug/L			08/27/16 01:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/27/16 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*08/27/16 01:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*08/27/16 01:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/27/16 01:53*	*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		08/25/16 10:23	08/25/16 19:30	1
Acenaphthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Acenaphthylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Fluorene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Phenanthrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Benzo[a]anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Chrysene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Benzo[a]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*29 - 120*	*08/25/16 10:23*	*08/25/16 19:30*	*1*
Terphenyl-d14	*44*	*X*	*45 - 120*	*08/25/16 10:23*	*08/25/16 19:30*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6900**		5.0		ug/L			09/01/16 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**590**		51		ug/L		08/25/16 10:34	08/26/16 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*08/25/16 10:34*	*08/26/16 00:01*	*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]	ND		51		ug/L		08/25/16 17:48	08/26/16 18:41	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-27
Date Collected: 08/19/16 11:45
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 5*	*08/25/16 17:48*	*08/26/16 18:41*	*1*
p-Terphenyl	*74*		*31 - 150*	*08/25/16 17:48*	*08/26/16 18:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10		mg/L			08/24/16 03:29	1

Client Sample ID: MW-26

Date Collected: 08/19/16 12:05
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/27/16 02:22	1
Benzene	ND		0.50		ug/L			08/27/16 02:22	1
Ethylbenzene	ND		0.50		ug/L			08/27/16 02:22	1
Naphthalene	ND		1.0		ug/L			08/27/16 02:22	1
Toluene	ND		0.50		ug/L			08/27/16 02:22	1
Xylenes, Total	ND		1.0		ug/L			08/27/16 02:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/27/16 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*08/27/16 02:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*08/27/16 02:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/27/16 02:22*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.11**		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Acenaphthene	**0.31**		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Acenaphthylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Fluorene	**0.18**		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Phenanthrene	**0.26**		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Benzo[a]anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Chrysene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Benzo[a]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*29 - 120*	*08/25/16 10:23*	*08/25/16 19:54*	*1*
Terphenyl-d14	*41*	*X*	*45 - 120*	*08/25/16 10:23*	*08/25/16 19:54*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11000**		5.0		ug/L			09/01/16 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**		51		ug/L		08/25/16 10:34	08/26/16 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*23 - 156*	*08/25/16 10:34*	*08/26/16 00:49*	*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		51		ug/L		08/25/16 17:48	08/26/16 19:05	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-26
Date Collected: 08/19/16 12:05
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5	08/25/16 17:48	08/26/16 19:05	1
p-Terphenyl	80		31 - 150	08/25/16 17:48	08/26/16 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			08/24/16 03:39	1

Client Sample ID: IW-3

Date Collected: 08/19/16 12:30
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/27/16 02:51	1
Benzene	ND		0.50		ug/L			08/27/16 02:51	1
Ethylbenzene	ND		0.50		ug/L			08/27/16 02:51	1
Naphthalene	ND		1.0		ug/L			08/27/16 02:51	1
Toluene	ND		0.50		ug/L			08/27/16 02:51	1
Xylenes, Total	ND		1.0		ug/L			08/27/16 02:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/27/16 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*08/27/16 02:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*08/27/16 02:51*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/27/16 02:51*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.20**		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Acenaphthene	**1.2**		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Acenaphthylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Fluorene	**0.67**		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Phenanthrene	**0.38**		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Benzo[a]anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Chrysene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Benzo[a]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*29 - 120*	*08/25/16 10:23*	*08/25/16 20:18*	*1*
Terphenyl-d14	*46*		*45 - 120*	*08/25/16 10:23*	*08/25/16 20:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8600**		5.0		ug/L			09/01/16 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**480**		53		ug/L		08/25/16 10:34	08/26/16 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*23 - 156*	*08/25/16 10:34*	*08/26/16 01:13*	*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		53		ug/L		08/25/16 17:48	08/26/16 19:29	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: IW-3
Date Collected: 08/19/16 12:30
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0006*		*0 - 5*	*08/25/16 17:48*	*08/26/16 19:29*	*1*
p-Terphenyl	*93*		*31 - 150*	*08/25/16 17:48*	*08/26/16 19:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10		mg/L			08/24/16 03:42	1

Client Sample ID: MW-13

Date Collected: 08/19/16 12:50
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/27/16 03:20	1
Benzene	ND		0.50		ug/L			08/27/16 03:20	1
Ethylbenzene	ND		0.50		ug/L			08/27/16 03:20	1
Naphthalene	ND		1.0		ug/L			08/27/16 03:20	1
Toluene	ND		0.50		ug/L			08/27/16 03:20	1
Xylenes, Total	ND		1.0		ug/L			08/27/16 03:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/27/16 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*08/27/16 03:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*08/27/16 03:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*08/27/16 03:20*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.13**		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Acenaphthene	**0.25**		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Acenaphthylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Fluorene	**0.30**		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Phenanthrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Benzo[a]anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Chrysene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Benzo[a]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*29 - 120*	*08/25/16 10:23*	*08/25/16 20:41*	*1*
Terphenyl-d14	*42*	*X*	*45 - 120*	*08/25/16 10:23*	*08/25/16 20:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**12000**		5.0		ug/L			09/01/16 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**850**		51		ug/L		08/22/16 16:00	08/22/16 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*68*		*23 - 156*	*08/22/16 16:00*	*08/22/16 21:18*	*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		51		ug/L		08/22/16 18:31	08/24/16 20:33	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-13
Date Collected: 08/19/16 12:50
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:33*	*1*
p-Terphenyl	*86*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			08/24/16 03:46	1

Client Sample ID: MW-23
Date Collected: 08/19/16 13:15
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/27/16 03:49	1
Benzene	ND		0.50		ug/L			08/27/16 03:49	1
Ethylbenzene	ND		0.50		ug/L			08/27/16 03:49	1
Naphthalene	**2.3**		1.0		ug/L			08/27/16 03:49	1
Toluene	ND		0.50		ug/L			08/27/16 03:49	1
Xylenes, Total	ND		1.0		ug/L			08/27/16 03:49	1
Gasoline Range Organics (GRO) -C5-C12	**78**		50		ug/L			08/27/16 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*08/27/16 03:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*08/27/16 03:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/27/16 03:49*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.94**		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Acenaphthene	**0.75**		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Acenaphthylene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Fluorene	**1.3**		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Phenanthrene	**0.93**		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Anthracene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Benzo[a]anthracene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Chrysene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Benzo[a]pyrene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Benzo[b]fluoranthene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Benzo[k]fluoranthene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Benzo[g,h,i]perylene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Indeno[1,2,3-cd]pyrene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Fluoranthene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Pyrene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1
Dibenz(a,h)anthracene	ND		0.097		ug/L		08/25/16 10:23	08/25/16 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*29 - 120*	*08/25/16 10:23*	*08/25/16 21:05*	*1*
Terphenyl-d14	*35*	*X*	*45 - 120*	*08/25/16 10:23*	*08/25/16 21:05*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9900**		5.0		ug/L			09/01/16 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3400**		47		ug/L		08/22/16 16:00	08/22/16 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*23 - 156*	*08/22/16 16:00*	*08/22/16 22:06*	*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]	**1400**		47		ug/L		08/22/16 18:31	08/24/16 20:58	1

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-23
Date Collected: 08/19/16 13:15
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*4*		*0 - 5*	*08/22/16 18:31*	*08/24/16 20:58*	*1*
p-Terphenyl	*79*		*31 - 150*	*08/22/16 18:31*	*08/24/16 20:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			08/24/16 03:49	1

Surrogate Summary

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

TestAmerica Job ID: 720-74045-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-74045-1	MW-11	103	110	104
720-74045-2	MW-16	103	106	102
720-74045-3	MW-14	101	109	102
720-74045-4	MW-20	101	109	101
720-74045-5	MW-9	101	81	102
720-74045-6	MW-19	102	107	102
720-74045-7	MW-27	95	103	102
720-74045-8	MW-26	94	102	102
720-74045-9	IW-3	95	103	101
720-74045-10	MW-13	96	101	101
720-74045-11	MW-23	96	101	102
LCS 720-208109/6	Lab Control Sample	96	88	99
LCS 720-208109/8	Lab Control Sample	97	97	102
LCS 720-208351/6	Lab Control Sample	101	98	103
LCS 720-208351/8	Lab Control Sample	101	101	104
LCSD 720-208109/7	Lab Control Sample Dup	93	96	100
LCSD 720-208109/9	Lab Control Sample Dup	92	93	101
LCSD 720-208351/7	Lab Control Sample Dup	99	101	102
LCSD 720-208351/9	Lab Control Sample Dup	101	100	103
MB 720-208109/5	Method Blank	94	92	100
MB 720-208351/5	Method Blank	96	102	102

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPH
Lab Sample ID	Client Sample ID	(29-120)	(45-120)
720-74045-1	MW-11	39	37 X
720-74045-2	MW-16	55	49
720-74045-3	MW-14	43	61
720-74045-4	MW-20	61	46
720-74045-5	MW-9	47	50
720-74045-6	MW-19	53	36 X
720-74045-7	MW-27	73	44 X
720-74045-8	MW-26	63	41 X
720-74045-9	IW-3	66	46
720-74045-10	MW-13	61	42 X
720-74045-11	MW-23	53	35 X
LCS 720-208168/2-A	Lab Control Sample	76	70
LCS 720-208246/2-A	Lab Control Sample	61	65
LCSD 720-208168/3-A	Lab Control Sample Dup	64	66
LCSD 720-208246/3-A	Lab Control Sample Dup	64	60
MB 720-208168/1-A	Method Blank	68	80

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	FBP (29-120)	TPH (45-120)								
MB 720-208246/1-A	Method Blank	83	80								

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PTP1 (23-156)									
720-74045-1	MW-11	79									
720-74045-2	MW-16	81									
720-74045-3	MW-14	95									
720-74045-4	MW-20	85									
720-74045-5	MW-9	92									
720-74045-6	MW-19	74									
720-74045-7	MW-27	82									
720-74045-8	MW-26	92									
720-74045-9	IW-3	101									
720-74045-10	MW-13	68									
720-74045-11	MW-23	67									
LCS 720-208007/2-A	Lab Control Sample	80									
LCS 720-208247/2-A	Lab Control Sample	93									
LCSD 720-208007/3-A	Lab Control Sample Dup	90									
LCSD 720-208247/3-A	Lab Control Sample Dup	97									
MB 720-208007/1-A	Method Blank	72									
MB 720-208247/1-A	Method Blank	93									

Surrogate Legend

PTP = p-Terphenyl

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

Matrix: Water **Prep Type: Silica Gel Cleanup**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	NDA1 (0-5)	PTP1 (31-150)								
720-74045-1	MW-11	0.0002	71								
720-74045-2	MW-16	0.05	74								
720-74045-3	MW-14	0.004	84								
720-74045-4	MW-20	0.3	88								
720-74045-5	MW-9	0.0002	90								
720-74045-6	MW-19	0.2	72								
720-74045-7	MW-27	0.007	74								
720-74045-8	MW-26	0.002	80								
720-74045-9	IW-3	0.0006	93								
720-74045-10	MW-13	0.02	86								
720-74045-11	MW-23	4	79								

Surrogate Summary

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

TestAmerica Job ID: 720-74045-1

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

Matrix: Water

Prep Type: Silica Gel Cleanup

		Percent Surrogate Recovery (Acceptance Limits)									
		NDA1	PTP1								
Lab Sample ID	Client Sample ID	(0-5)	(31-150)								
LCS 720-208048/2-A	Lab Control Sample		82								
LCS 720-208285/2-A	Lab Control Sample		87								
LCSD 720-208048/3-A	Lab Control Sample Dup		78								
LCSD 720-208285/3-A	Lab Control Sample Dup		95								
MB 720-208048/1-A	Method Blank	0.007	65								
MB 720-208285/1-A	Method Blank	0.002	89								

Surrogate Legend

NDA = Capric Acid (Surr)
PTP = p-Terphenyl

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

Lab Sample ID: MB 720-208109/5
Matrix: Water
Analysis Batch: 208109

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/23/16 19:24	1
Benzene	ND		0.50		ug/L			08/23/16 19:24	1
Ethylbenzene	ND		0.50		ug/L			08/23/16 19:24	1
Naphthalene	ND		1.0		ug/L			08/23/16 19:24	1
Toluene	ND		0.50		ug/L			08/23/16 19:24	1
Xylenes, Total	ND		1.0		ug/L			08/23/16 19:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/23/16 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*08/23/16 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*		*08/23/16 19:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/23/16 19:24*	*1*

Lab Sample ID: LCS 720-208109/6
Matrix: Water
Analysis Batch: 208109

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	21.5		ug/L		86	62 - 130
Benzene	25.0	24.4		ug/L		98	79 - 130
Ethylbenzene	25.0	24.6		ug/L		99	80 - 120
Naphthalene	25.0	21.2		ug/L		85	50 - 130
Toluene	25.0	25.1		ug/L		100	78 - 120
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	70 - 142
o-Xylene	25.0	24.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 720-208109/8
Matrix: Water
Analysis Batch: 208109

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	531		ug/L		106	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: LCSD 720-208109/7
Matrix: Water
Analysis Batch: 208109

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
MTBE			25.0	25.1		ug/L		100	62 - 130	15	20
Benzene			25.0	24.6		ug/L		98	79 - 130	1	20
Ethylbenzene			25.0	23.7		ug/L		95	80 - 120	4	20
Naphthalene			25.0	23.7		ug/L		95	50 - 130	11	20
Toluene			25.0	24.0		ug/L		96	78 - 120	4	20
m-Xylene & p-Xylene			25.0	23.5		ug/L		94	70 - 142	4	20
o-Xylene			25.0	23.4		ug/L		93	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-208109/9
Matrix: Water
Analysis Batch: 208109

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	539		ug/L		108	71 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-208351/5
Matrix: Water
Analysis Batch: 208351

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			08/26/16 19:08	1
Benzene	ND		0.50		ug/L			08/26/16 19:08	1
Ethylbenzene	ND		0.50		ug/L			08/26/16 19:08	1
Naphthalene	ND		1.0		ug/L			08/26/16 19:08	1
Toluene	ND		0.50		ug/L			08/26/16 19:08	1
Xylenes, Total	ND		1.0		ug/L			08/26/16 19:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			08/26/16 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*08/26/16 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*08/26/16 19:08*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/26/16 19:08*	*1*

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

Lab Sample ID: LCS 720-208351/6
Matrix: Water
Analysis Batch: 208351

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	27.2		ug/L		109	62 - 130
Benzene	25.0	27.6		ug/L		110	79 - 130
Ethylbenzene	25.0	26.9		ug/L		108	80 - 120
Naphthalene	25.0	25.2		ug/L		101	50 - 130
Toluene	25.0	26.8		ug/L		107	78 - 120
m-Xylene & p-Xylene	25.0	27.1		ug/L		108	70 - 142
o-Xylene	25.0	27.0		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCS 720-208351/8
Matrix: Water
Analysis Batch: 208351

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	523		ug/L		105	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-208351/7
Matrix: Water
Analysis Batch: 208351

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
MTBE	25.0	28.8		ug/L		115	62 - 130	6	20
Benzene	25.0	27.6		ug/L		110	79 - 130	0	20
Ethylbenzene	25.0	26.4		ug/L		105	80 - 120	2	20
Naphthalene	25.0	26.1		ug/L		104	50 - 130	4	20
Toluene	25.0	26.7		ug/L		107	78 - 120	0	20
m-Xylene & p-Xylene	25.0	26.4		ug/L		106	70 - 142	2	20
o-Xylene	25.0	26.4		ug/L		105	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: LCSD 720-208351/9
Matrix: Water
Analysis Batch: 208351

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	515		ug/L		103	71 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-208168/1-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Acenaphthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Acenaphthylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Fluorene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Phenanthrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[a]anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Chrysene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[a]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Fluoranthene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Pyrene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/24/16 11:48	08/24/16 21:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*29 - 120*	*08/24/16 11:48*	*08/24/16 21:10*	*1*
Terphenyl-d14	*80*		*45 - 120*	*08/24/16 11:48*	*08/24/16 21:10*	*1*

Lab Sample ID: LCS 720-208168/2-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208168

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene			10.0	7.49		ug/L		75	19 - 120
Acenaphthene			10.0	7.44		ug/L		74	24 - 120
Acenaphthylene			10.0	7.74		ug/L		77	24 - 120
Fluorene			10.0	7.63		ug/L		76	27 - 120
Phenanthrene			10.0	7.80		ug/L		78	31 - 120
Anthracene			10.0	7.99		ug/L		80	44 - 120

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-208168/2-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	10.0	7.77		ug/L		78	48 - 120
Chrysene	10.0	7.52		ug/L		75	47 - 120
Benzo[a]pyrene	10.0	6.68		ug/L		67	43 - 120
Benzo[b]fluoranthene	10.0	6.71		ug/L		67	42 - 120
Benzo[k]fluoranthene	10.0	6.03		ug/L		60	42 - 120
Benzo[g,h,i]perylene	10.0	4.72		ug/L		47	35 - 120
Indeno[1,2,3-cd]pyrene	10.0	5.02		ug/L		50	36 - 120
Fluoranthene	10.0	8.65		ug/L		86	43 - 120
Pyrene	10.0	8.30		ug/L		83	47 - 120
Dibenz(a,h)anthracene	10.0	4.95		ug/L		49	33 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*29 - 120*
Terphenyl-d14	*70*		*45 - 120*

Lab Sample ID: LCSD 720-208168/3-A
Matrix: Water
Analysis Batch: 208219

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208168

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10.0	6.02		ug/L		60	19 - 120	22	35
Acenaphthene	10.0	6.08		ug/L		61	24 - 120	20	35
Acenaphthylene	10.0	6.23		ug/L		62	24 - 120	22	35
Fluorene	10.0	6.27		ug/L		63	27 - 120	20	35
Phenanthrene	10.0	6.67		ug/L		67	31 - 120	16	35
Anthracene	10.0	6.99		ug/L		70	44 - 120	13	35
Benzo[a]anthracene	10.0	7.28		ug/L		73	48 - 120	7	35
Chrysene	10.0	7.06		ug/L		71	47 - 120	6	35
Benzo[a]pyrene	10.0	6.19		ug/L		62	43 - 120	8	35
Benzo[b]fluoranthene	10.0	6.54		ug/L		65	42 - 120	3	35
Benzo[k]fluoranthene	10.0	5.64		ug/L		56	42 - 120	7	35
Benzo[g,h,i]perylene	10.0	4.39		ug/L		44	35 - 120	7	35
Indeno[1,2,3-cd]pyrene	10.0	4.73		ug/L		47	36 - 120	6	35
Fluoranthene	10.0	7.84		ug/L		78	43 - 120	10	35
Pyrene	10.0	7.74		ug/L		77	47 - 120	7	35
Dibenz(a,h)anthracene	10.0	4.63		ug/L		46	33 - 120	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*29 - 120*
Terphenyl-d14	*66*		*45 - 120*

Lab Sample ID: MB 720-208246/1-A
Matrix: Water
Analysis Batch: 208257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Acenaphthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-208246/1-A
Matrix: Water
Analysis Batch: 208257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Fluorene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Phenanthrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Benzo[a]anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Chrysene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Benzo[a]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Benzo[b]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Benzo[k]fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Fluoranthene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Pyrene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		08/25/16 10:23	08/25/16 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*29 - 120*	*08/25/16 10:23*	*08/25/16 19:07*	*1*
Terphenyl-d14	*80*		*45 - 120*	*08/25/16 10:23*	*08/25/16 19:07*	*1*

Lab Sample ID: LCS 720-208246/2-A
Matrix: Water
Analysis Batch: 208257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	6.90		ug/L		69	19 - 120
Acenaphthene	10.0	7.26		ug/L		73	24 - 120
Acenaphthylene	10.0	7.55		ug/L		76	24 - 120
Fluorene	10.0	7.29		ug/L		73	27 - 120
Phenanthrene	10.0	7.39		ug/L		74	31 - 120
Anthracene	10.0	7.64		ug/L		76	44 - 120
Benzo[a]anthracene	10.0	7.32		ug/L		73	48 - 120
Chrysene	10.0	7.06		ug/L		71	47 - 120
Benzo[a]pyrene	10.0	6.10		ug/L		61	43 - 120
Benzo[b]fluoranthene	10.0	6.16		ug/L		62	42 - 120
Benzo[k]fluoranthene	10.0	5.43		ug/L		54	42 - 120
Benzo[g,h,i]perylene	10.0	4.25		ug/L		42	35 - 120
Indeno[1,2,3-cd]pyrene	10.0	4.65		ug/L		47	36 - 120
Fluoranthene	10.0	7.95		ug/L		79	43 - 120
Pyrene	10.0	7.66		ug/L		77	47 - 120
Dibenz(a,h)anthracene	10.0	4.58		ug/L		46	33 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*61*		*29 - 120*
Terphenyl-d14	*65*		*45 - 120*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-208246/3-A
Matrix: Water
Analysis Batch: 208257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208246

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			10.0	5.99		ug/L		60	19 - 120	14	35
Acenaphthene			10.0	6.19		ug/L		62	24 - 120	16	35
Acenaphthylene			10.0	6.32		ug/L		63	24 - 120	18	35
Fluorene			10.0	6.39		ug/L		64	27 - 120	13	35
Phenanthrene			10.0	6.63		ug/L		66	31 - 120	11	35
Anthracene			10.0	6.97		ug/L		70	44 - 120	9	35
Benzo[a]anthracene			10.0	6.86		ug/L		69	48 - 120	7	35
Chrysene			10.0	6.57		ug/L		66	47 - 120	7	35
Benzo[a]pyrene			10.0	5.63		ug/L		56	43 - 120	8	35
Benzo[b]fluoranthene			10.0	5.45		ug/L		55	42 - 120	12	35
Benzo[k]fluoranthene			10.0	5.37		ug/L		54	42 - 120	1	35
Benzo[g,h,i]perylene			10.0	3.80		ug/L		38	35 - 120	11	35
Indeno[1,2,3-cd]pyrene			10.0	4.21		ug/L		42	36 - 120	10	35
Fluoranthene			10.0	7.68		ug/L		77	43 - 120	3	35
Pyrene			10.0	7.01		ug/L		70	47 - 120	9	35
Dibenz(a,h)anthracene			10.0	4.18		ug/L		42	33 - 120	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*29 - 120*
Terphenyl-d14	*60*		*45 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-340541/5
Matrix: Water
Analysis Batch: 340541

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			09/01/16 17:38	1

Lab Sample ID: LCS 280-340541/6
Matrix: Water
Analysis Batch: 340541

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			146	154		ug/L		105	75 - 125		

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

Lab Sample ID: MB 720-208007/1-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/22/16 10:53	08/22/16 23:43	1

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

Lab Sample ID: MB 720-208007/1-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208007

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	72		23 - 156	08/22/16 10:53	08/22/16 23:43	1

Lab Sample ID: LCS 720-208007/2-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208007

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1940		ug/L		78	34 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	80		23 - 156

Lab Sample ID: LCSD 720-208007/3-A
Matrix: Water
Analysis Batch: 207989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208007

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	2100		ug/L		84	34 - 115	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	90		23 - 156

Lab Sample ID: MB 720-208247/1-A
Matrix: Water
Analysis Batch: 208295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/25/16 10:34	08/26/16 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	93		23 - 156	08/25/16 10:34	08/26/16 11:05	1

Lab Sample ID: LCS 720-208247/2-A
Matrix: Water
Analysis Batch: 208295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	2200		ug/L		88	34 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	93		23 - 156

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

Lab Sample ID: LCSD 720-208247/3-A
Matrix: Water
Analysis Batch: 208295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 208247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	2040		ug/L		82	34 - 115	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*97*		*23 - 156*

Lab Sample ID: MB 720-208048/1-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/22/16 18:31	08/24/16 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 5*	*08/22/16 18:31*	*08/24/16 22:11*	*1*
p-Terphenyl	*65*		*31 - 150*	*08/22/16 18:31*	*08/24/16 22:11*	*1*

Lab Sample ID: LCS 720-208048/2-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			2500	1410		ug/L		57	32 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*82*		*31 - 150*

Lab Sample ID: LCSD 720-208048/3-A
Matrix: Water
Analysis Batch: 208134

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 208048

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1330		ug/L		53	32 - 119	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*78*		*31 - 150*

Lab Sample ID: MB 720-208285/1-A
Matrix: Water
Analysis Batch: 208301

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 208285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/25/16 17:48	08/26/16 15:51	1

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

Lab Sample ID: MB 720-208285/1-A
Matrix: Water
Analysis Batch: 208301

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 208285

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5	08/25/16 17:48	08/26/16 15:51	1
p-Terphenyl	89		31 - 150	08/25/16 17:48	08/26/16 15:51	1

Lab Sample ID: LCS 720-208285/2-A
Matrix: Water
Analysis Batch: 208301

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 208285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	2110		ug/L		84	32 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	87		31 - 150

Lab Sample ID: LCSD 720-208285/3-A
Matrix: Water
Analysis Batch: 208301

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 208285

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2220		ug/L		89	32 - 119	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	95		31 - 150

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-348991/1
Matrix: Water
Analysis Batch: 348991

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			08/24/16 03:02	1

Lab Sample ID: LCS 500-348991/2
Matrix: Water
Analysis Batch: 348991

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	298		mg/L		119	80 - 120

Lab Sample ID: 720-74045-7 MS
Matrix: Water
Analysis Batch: 348991

Client Sample ID: MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2000		250	2210	4	mg/L		77	75 - 125

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 720-74045-7 DU
Matrix: Water
Analysis Batch: 348991

Client Sample ID: MW-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2000			2070		mg/L				2	5

GC/MS VOA

Analysis Batch: 208109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-2	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-3	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-4	MW-20	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-5	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-6	MW-19	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-208109/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208109/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208109/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208109/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208109/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 208351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-7	MW-27	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-8	MW-26	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-9	IW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-10	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-74045-11	MW-23	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-208351/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208351/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-208351/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208351/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-208351/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 208168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	3510C	
720-74045-2	MW-16	Total/NA	Water	3510C	
720-74045-3	MW-14	Total/NA	Water	3510C	
720-74045-4	MW-20	Total/NA	Water	3510C	
720-74045-5	MW-9	Total/NA	Water	3510C	
720-74045-6	MW-19	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 208168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208168/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208168/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208168/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 208219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	8270C SIM	208168
720-74045-2	MW-16	Total/NA	Water	8270C SIM	208168
720-74045-3	MW-14	Total/NA	Water	8270C SIM	208168
720-74045-4	MW-20	Total/NA	Water	8270C SIM	208168
720-74045-5	MW-9	Total/NA	Water	8270C SIM	208168
720-74045-6	MW-19	Total/NA	Water	8270C SIM	208168
MB 720-208168/1-A	Method Blank	Total/NA	Water	8270C SIM	208168
LCS 720-208168/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	208168
LCSD 720-208168/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	208168

Prep Batch: 208246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-7	MW-27	Total/NA	Water	3510C	
720-74045-8	MW-26	Total/NA	Water	3510C	
720-74045-9	IW-3	Total/NA	Water	3510C	
720-74045-10	MW-13	Total/NA	Water	3510C	
720-74045-11	MW-23	Total/NA	Water	3510C	
MB 720-208246/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208246/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208246/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 208257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-7	MW-27	Total/NA	Water	8270C SIM	208246
720-74045-8	MW-26	Total/NA	Water	8270C SIM	208246
720-74045-9	IW-3	Total/NA	Water	8270C SIM	208246
720-74045-10	MW-13	Total/NA	Water	8270C SIM	208246
720-74045-11	MW-23	Total/NA	Water	8270C SIM	208246
MB 720-208246/1-A	Method Blank	Total/NA	Water	8270C SIM	208246
LCS 720-208246/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	208246
LCSD 720-208246/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	208246

GC VOA

Analysis Batch: 340541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	RSK-175	
720-74045-2	MW-16	Total/NA	Water	RSK-175	
720-74045-3	MW-14	Total/NA	Water	RSK-175	
720-74045-4	MW-20	Total/NA	Water	RSK-175	
720-74045-5	MW-9	Total/NA	Water	RSK-175	
720-74045-6	MW-19	Total/NA	Water	RSK-175	
720-74045-7	MW-27	Total/NA	Water	RSK-175	
720-74045-8	MW-26	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 340541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-9	IW-3	Total/NA	Water	RSK-175	
720-74045-10	MW-13	Total/NA	Water	RSK-175	
720-74045-11	MW-23	Total/NA	Water	RSK-175	
MB 280-340541/5	Method Blank	Total/NA	Water	RSK-175	
LCS 280-340541/6	Lab Control Sample	Total/NA	Water	RSK-175	

GC Semi VOA

Analysis Batch: 207989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-10	MW-13	Total/NA	Water	8015B	208007
720-74045-11	MW-23	Total/NA	Water	8015B	208007
MB 720-208007/1-A	Method Blank	Total/NA	Water	8015B	208007
LCS 720-208007/2-A	Lab Control Sample	Total/NA	Water	8015B	208007
LCSD 720-208007/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	208007

Prep Batch: 208007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-10	MW-13	Total/NA	Water	3510C	
720-74045-11	MW-23	Total/NA	Water	3510C	
MB 720-208007/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208007/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208007/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 208048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-10	MW-13	Silica Gel Cleanup	Water	3510C SGC	
720-74045-11	MW-23	Silica Gel Cleanup	Water	3510C SGC	
MB 720-208048/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-208048/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-208048/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 208133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-10	MW-13	Silica Gel Cleanup	Water	8015B	208048
720-74045-11	MW-23	Silica Gel Cleanup	Water	8015B	208048

Analysis Batch: 208134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208048/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	208048
LCS 720-208048/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	208048
LCSD 720-208048/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	208048

Analysis Batch: 208228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-2	MW-16	Total/NA	Water	8015B	208247
720-74045-3	MW-14	Total/NA	Water	8015B	208247
720-74045-4	MW-20	Total/NA	Water	8015B	208247
720-74045-5	MW-9	Total/NA	Water	8015B	208247
720-74045-6	MW-19	Total/NA	Water	8015B	208247

GC Semi VOA (Continued)

Analysis Batch: 208228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-7	MW-27	Total/NA	Water	8015B	208247
720-74045-8	MW-26	Total/NA	Water	8015B	208247
720-74045-9	IW-3	Total/NA	Water	8015B	208247

Prep Batch: 208247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	3510C	
720-74045-2	MW-16	Total/NA	Water	3510C	
720-74045-3	MW-14	Total/NA	Water	3510C	
720-74045-4	MW-20	Total/NA	Water	3510C	
720-74045-5	MW-9	Total/NA	Water	3510C	
720-74045-6	MW-19	Total/NA	Water	3510C	
720-74045-7	MW-27	Total/NA	Water	3510C	
720-74045-8	MW-26	Total/NA	Water	3510C	
720-74045-9	IW-3	Total/NA	Water	3510C	
MB 720-208247/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-208247/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-208247/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 208285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Silica Gel Cleanup	Water	3510C SGC	
720-74045-2	MW-16	Silica Gel Cleanup	Water	3510C SGC	
720-74045-3	MW-14	Silica Gel Cleanup	Water	3510C SGC	
720-74045-4	MW-20	Silica Gel Cleanup	Water	3510C SGC	
720-74045-5	MW-9	Silica Gel Cleanup	Water	3510C SGC	
720-74045-6	MW-19	Silica Gel Cleanup	Water	3510C SGC	
720-74045-7	MW-27	Silica Gel Cleanup	Water	3510C SGC	
720-74045-8	MW-26	Silica Gel Cleanup	Water	3510C SGC	
720-74045-9	IW-3	Silica Gel Cleanup	Water	3510C SGC	
MB 720-208285/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-208285/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-208285/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 208294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	8015B	208247

Analysis Batch: 208295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208247/1-A	Method Blank	Total/NA	Water	8015B	208247
LCS 720-208247/2-A	Lab Control Sample	Total/NA	Water	8015B	208247
LCSD 720-208247/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	208247

Analysis Batch: 208301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Silica Gel Cleanup	Water	8015B	208285
720-74045-2	MW-16	Silica Gel Cleanup	Water	8015B	208285
720-74045-3	MW-14	Silica Gel Cleanup	Water	8015B	208285
720-74045-4	MW-20	Silica Gel Cleanup	Water	8015B	208285
720-74045-5	MW-9	Silica Gel Cleanup	Water	8015B	208285

GC Semi VOA (Continued)

Analysis Batch: 208301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-6	MW-19	Silica Gel Cleanup	Water	8015B	208285
720-74045-7	MW-27	Silica Gel Cleanup	Water	8015B	208285
720-74045-8	MW-26	Silica Gel Cleanup	Water	8015B	208285
720-74045-9	IW-3	Silica Gel Cleanup	Water	8015B	208285
MB 720-208285/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	208285
LCS 720-208285/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	208285
LCSD 720-208285/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	208285

General Chemistry

Analysis Batch: 348991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74045-1	MW-11	Total/NA	Water	SM 2540C	
720-74045-2	MW-16	Total/NA	Water	SM 2540C	
720-74045-3	MW-14	Total/NA	Water	SM 2540C	
720-74045-4	MW-20	Total/NA	Water	SM 2540C	
720-74045-5	MW-9	Total/NA	Water	SM 2540C	
720-74045-6	MW-19	Total/NA	Water	SM 2540C	
720-74045-7	MW-27	Total/NA	Water	SM 2540C	
720-74045-8	MW-26	Total/NA	Water	SM 2540C	
720-74045-9	IW-3	Total/NA	Water	SM 2540C	
720-74045-10	MW-13	Total/NA	Water	SM 2540C	
720-74045-11	MW-23	Total/NA	Water	SM 2540C	
MB 500-348991/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-348991/2	Lab Control Sample	Total/NA	Water	SM 2540C	
720-74045-7 MS	MW-27	Total/NA	Water	SM 2540C	
720-74045-7 DU	MW-27	Total/NA	Water	SM 2540C	

Client Sample ID: MW-11

Lab Sample ID: 720-74045-1

Date Collected: 08/19/16 09:45

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 02:45	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 03:05	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 18:15	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 16:15	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208294	08/26/16 12:33	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:09	CLB	TAL CHI

Client Sample ID: MW-16

Lab Sample ID: 720-74045-2

Date Collected: 08/19/16 10:05

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 03:12	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 03:29	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 18:26	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 16:40	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/25/16 23:37	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:12	CLB	TAL CHI

Client Sample ID: MW-14

Lab Sample ID: 720-74045-3

Date Collected: 08/19/16 10:25

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 03:40	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 03:52	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 18:37	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 17:04	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/25/16 23:12	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:15	CLB	TAL CHI

Client Sample ID: MW-20

Lab Sample ID: 720-74045-4

Date Collected: 08/19/16 10:40

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 04:08	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 04:16	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 18:41	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 17:28	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/26/16 00:25	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:19	CLB	TAL CHI

Client Sample ID: MW-9

Lab Sample ID: 720-74045-5

Date Collected: 08/19/16 11:00

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 04:35	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 04:40	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 18:45	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 17:52	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/25/16 22:48	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:22	CLB	TAL CHI

Client Sample ID: MW-19

Lab Sample ID: 720-74045-6

Date Collected: 08/19/16 11:20

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208109	08/24/16 05:03	LPL	TAL PLS
Total/NA	Prep	3510C			208168	08/24/16 11:48	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208219	08/25/16 05:03	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 19:01	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 18:17	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/26/16 01:37	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:25	CLB	TAL CHI

Client Sample ID: MW-27

Lab Sample ID: 720-74045-7

Date Collected: 08/19/16 11:45

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208351	08/27/16 01:53	LPL	TAL PLS
Total/NA	Prep	3510C			208246	08/25/16 10:23	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 19:30	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 19:05	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 18:41	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/26/16 00:01	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:29	CLB	TAL CHI

Client Sample ID: MW-26

Lab Sample ID: 720-74045-8

Date Collected: 08/19/16 12:05

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208351	08/27/16 02:22	LPL	TAL PLS
Total/NA	Prep	3510C			208246	08/25/16 10:23	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 19:54	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 19:09	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 19:05	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/26/16 00:49	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:39	CLB	TAL CHI

Client Sample ID: IW-3

Lab Sample ID: 720-74045-9

Date Collected: 08/19/16 12:30

Matrix: Water

Date Received: 08/19/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	208351	08/27/16 02:51	LPL	TAL PLS
Total/NA	Prep	3510C			208246	08/25/16 10:23	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 20:18	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 19:36	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208285	08/25/16 17:48	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208301	08/26/16 19:29	JXL	TAL PLS
Total/NA	Prep	3510C			208247	08/25/16 10:34	NDU	TAL PLS
Total/NA	Analysis	8015B		1	208228	08/26/16 01:13	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:42	CLB	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 720-74045-1

Client Sample ID: MW-13

Date Collected: 08/19/16 12:50
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-10
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	208351	08/27/16 03:20	LPL	TAL PLS
Total/NA	Prep	3510C			208246	08/25/16 10:23	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 20:41	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 20:25	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208133	08/24/16 20:33	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 16:00	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207989	08/22/16 21:18	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:46	CLB	TAL CHI

Client Sample ID: MW-23

Date Collected: 08/19/16 13:15
Date Received: 08/19/16 16:45

Lab Sample ID: 720-74045-11
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	208351	08/27/16 03:49	LPL	TAL PLS
Total/NA	Prep	3510C			208246	08/25/16 10:23	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	208257	08/25/16 21:05	MQL	TAL PLS
Total/NA	Analysis	RSK-175		1	340541	09/01/16 20:29	MPS	TAL DEN
Silica Gel Cleanup	Prep	3510C SGC			208048	08/22/16 18:31	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	208133	08/24/16 20:58	JXL	TAL PLS
Total/NA	Prep	3510C			208007	08/22/16 16:00	NDU	TAL PLS
Total/NA	Analysis	8015B		1	207989	08/22/16 22:06	JXL	TAL PLS
Total/NA	Analysis	SM 2540C		1	348991	08/24/16 03:49	CLB	TAL CHI

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: 720-74045-1

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	01-31-18

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
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-16 *
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-17 *
South Carolina	State Program	4	77001	04-30-16 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17

Laboratory: TestAmerica 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	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-17
Arizona	State Program	9	AZ0713	12-19-16
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	08-31-16 *
Connecticut	State Program	1	PH-0686	09-30-16
Florida	NELAP	4	E87667	06-30-16 *
Georgia	State Program	4	N/A	01-09-17
Illinois	NELAP	5	200017	04-30-17
Iowa	State Program	7	370	11-30-16
Kansas	NELAP	7	E-10166	04-30-17
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-17
Minnesota	NELAP	5	8-999-405	12-31-16
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-17
North Carolina (WW/SW)	State Program	4	358	12-31-16

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 720-74045-1

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
North Dakota	State Program	8	R-034	01-09-17
Oklahoma	State Program	6	8614	08-31-16 *
Oregon	NELAP	10	4025	01-09-17
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17
Texas	NELAP	6	T104704183-15-11	09-30-16
USDA	Federal		P330-13-00369	12-17-16
Utah	NELAP	8	CO00026	07-31-16 *
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-03-17
West Virginia DEP	State Program	3	354	11-30-16
Wisconsin	State Program	5	999615430	08-31-16 *
Wyoming (UST)	A2LA	8	2907.01	10-31-17

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 720-74045-1

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
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI

Protocol References:

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: 720-74045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74045-1	MW-11	Water	08/19/16 09:45	08/19/16 16:45
720-74045-2	MW-16	Water	08/19/16 10:05	08/19/16 16:45
720-74045-3	MW-14	Water	08/19/16 10:25	08/19/16 16:45
720-74045-4	MW-20	Water	08/19/16 10:40	08/19/16 16:45
720-74045-5	MW-9	Water	08/19/16 11:00	08/19/16 16:45
720-74045-6	MW-19	Water	08/19/16 11:20	08/19/16 16:45
720-74045-7	MW-27	Water	08/19/16 11:45	08/19/16 16:45
720-74045-8	MW-26	Water	08/19/16 12:05	08/19/16 16:45
720-74045-9	IW-3	Water	08/19/16 12:30	08/19/16 16:45
720-74045-10	MW-13	Water	08/19/16 12:50	08/19/16 16:45
720-74045-11	MW-23	Water	08/19/16 13:15	08/19/16 16:45

720-74045

120528 1 of 2

BLAINE
TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 160819-CK1

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 (8260)	DRO with and without SGC (8015M)	Disslved Methane (RSK-175)	TDS (SM2540)	PAH's, Naththalene (8270)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-11	8/19/16	0945	W	11	Mix		X	X	X	X	X				
MW-16		1005	W	11	Mix		X	X	X	X	X				
MW-14		1025	W	11	Mix		X	X	X	X	X				
MW-20		1040	W	11	Mix		X	X	X	X	X				
MW-9		1100	W	11	Mix		X	X	X	X	X				
MW-19		1120	W	11	Mix		X	X	X	X	X				
MW-27		1145	W	11	Mix		X	X	X	X	X				
MW-26		1205	W	11	Mix		X	X	X	X	X				
TW-3		1230	W	11	Mix		X	X	X	X	X				
MW-13		1250	W	11	Mix		X	X	X	X	X				

720-74045 Chain of Custody

SAMPLING COMPLETED	DATE	TIME
	8/19/16	1330

SAMPLING PERFORMED BY: Corey Richardson

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	8/19/16	1540		8/19/16	1540
	8/19/16	1645		8/19/16	1645

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
			4.5, 4.7, 4.6, 4.0

9/2/2016

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BLAINE
TECH SERVICES, INC

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

CHAIN OF CUSTODY BTS # 160918.CK1

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

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 (8260)	DRO with and without SGC (8015M)	Disslved Methane (RSK-175)	TDS (SM2540)	PAH's, Naphthalene (8270)				ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-23	8/19/16	1315	W	11	MX		X	X	X	X	X							

SAMPLING COMPLETED DATE 8/19/16 TIME 1330
SAMPLING PERFORMED BY Corey KilPATRICK

RESULTS NEEDED NO LATER THAN Standard TAT

	DATE	TIME		DATE	TIME
RELEASED BY	8/19/16	1540	RECEIVED BY	8/19/16	1540
RELEASED BY	8/19/16	1645	RECEIVED BY	8/19/16	1645
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

9/2/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30077.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		**Analysis Requested**		Job #: 720-74045-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/25/2016			**Preservation Codes:**
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: UPS-Oakland	Project #: 72000550			
Site:	SSOW#:			Other:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-11 (720-74045-1)	8/19/16	09:45 Pacific		Water			X	3	
MW-16 (720-74045-2)	8/19/16	10:05 Pacific		Water			X	3	
MW-14 (720-74045-3)	8/19/16	10:25 Pacific		Water			X	3	
MW-20 (720-74045-4)	8/19/16	10:40 Pacific		Water			X	3	
MW-9 (720-74045-5)	8/19/16	11:00 Pacific		Water			X	3	
MW-19 (720-74045-6)	8/19/16	11:20 Pacific		Water			X	3	
MW-27 (720-74045-7)	8/19/16	11:45 Pacific		Water			X	3	
MW-26 (720-74045-8)	8/19/16	12:05 Pacific		Water			X	3	
IW-3 (720-74045-9)	8/19/16	12:30 Pacific		Water			X	3	
MW-13 (720-74045-10)	8/19/16	12:50 Pacific		Water			X	3	
MW-23 (720-74045-11)	8/19/16	13:15 Pacific		Water			X	3	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:
Relinquished by: [signature]	Date/Time: 8-22-16 1600	Company: Pleas	Received by: [signature]	Date/Time: 8-23-16 0915	Company: TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4 IR 5 0.0 RP 8-23-16		

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30078.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 720-74045-1
Address: 2417 Bond Street, ,	Due Date Requested: 8/25/2016			Preservation Codes:
City: University Park	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: UPS-Oakland	Project #: 72000550			
Site:	SSOW#:			

720-74045 COC

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
MW-11 (720-74045-1)	8/19/16	09:45 Pacific		Water			X	1	
MW-16 (720-74045-2)	8/19/16	10:05 Pacific		Water			X	1	
MW-14 (720-74045-3)	8/19/16	10:25 Pacific		Water			X	1	
MW-20 (720-74045-4)	8/19/16	10:40 Pacific		Water			X	1	
MW-9 (720-74045-5)	8/19/16	11:00 Pacific		Water			X	1	
MW-19 (720-74045-6)	8/19/16	11:20 Pacific		Water			X	1	
MW-27 (720-74045-7)	8/19/16	11:45 Pacific		Water			X	1	
MW-26 (720-74045-8)	8/19/16	12:05 Pacific		Water			X	1	
IW-3 (720-74045-9)	8/19/16	12:30 Pacific		Water			X	1	
MW-13 (720-74045-10)	8/19/16	12:50 Pacific		Water			X	1	
MW-23 (720-74045-11)	8/19/16	13:15 Pacific		Water			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8-22-16 1600	Phoenix	[signature]	08/23/16 10:30	TA-Pleas
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74045-1

Login Number: 74045
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74045-1

Login Number: 74045
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 08/23/16 11:27 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	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-74045-1

Login Number: 74045
List Number: 3
Creator: Pottruff, Reed W

List Source: TestAmerica Denver
List Creation: 08/23/16 12:07 PM

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

Arcadis U.S., Inc.

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San Francisco, California 94104

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