55 Glenlake Parkway, NE
Atlanta, GA 30328-3474

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

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

Dear Ms. Jakub:

Attached please find the Groundwater Monitoring for the above-referenced site. The report, which was prepared for United Parcel Service (UPS) by ARCADIS U.S., Inc. (ARCADIS), the second semi-annual groundwater monitoring event that was performed at the subject site on September 1, 2011.

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

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

Sincerely,

United Parcel Service

Julie Straub
Remediation and Assessment Manager

ARCADIS
Infrastructure · Water · Environment · Buildings

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

ENVIRONMENT

Date:
January 27, 2012

Contact:
Hugh Devery

Phone:
404.952.1604

Email:
Hugh.Devery@arcadis-us.com

Our ref:
B0038398.0005

Dear Ms. Jakub:

On behalf of United Parcel Service (UPS), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit the second semi-annual Groundwater Monitoring Report for the UPS Oakland Hub, located at 8400 Pardee Drive, Oakland, Alameda County, California. UPS is the responsible party for this diesel release, and is the tenant at the property. The property is owned by the Port of Oakland. Doug Herman is the contact with the Port of Oakland and is copied on this report.

Groundwater sampling was performed on September 1, 2011. **Figures 1**, **2**, and **3** illustrate the site location, facility layout and site map with monitoring wells and other details.

GROUNDWATER MONITORING

Groundwater samples were collected from groundwater monitoring wells MW-2, MW-3 MW-4, MW-8, MW-9, MW-10, and MW-11 on September 1, 2011. Water levels were measured prior to purging and sampling the wells. Purge water was monitored to document stabilization of pH, temperature, turbidity, and conductivity parameters (**Appendix A**).

Water Levels

The depth to water (DTW) in each well was gauged on September 1, 2011, prior to purging and the collection of the groundwater samples. DTW ranged from 3.67 feet below top of casing (ft-btoc) in monitoring well MW-8 to 8.35 ft-btoc in monitoring well MW-10. Historical groundwater gauging and elevation data is presented in **Table 1**.

A groundwater elevation map was prepared using the September 1, 2011 groundwater elevation data, and is presented as **Figure 4**. The apparent direction of groundwater flow was generally to the south-southeast.

The SOS® Passive Skimmers were installed in observation well OW-1, and monitoring wells MW-2 and MW-3. The Phase Separated Hydrocarbon (PSH) recovery data collected from June 2011 onwards is presented in **Table 2**. **Appendix B** shows the historical records of PSH detected during year 2004 through 2011 and the specifications for the SOS® Passive Skimmers. During the recent fieldwork, the PSH thickness of <0.01 feet was maintained in MW-2 and in the months of September and October the product was recovered at full integral holding capacity (20 oz). In MW-3 also, PSH was recovered at almost the full holding capacity. In OW-1, the height of the skimmer was readjusted to recover just below the full holding capacity each month. The skimmers are working well and PSH recovery has been conducted on a consistent basis.

Groundwater Quality

Groundwater samples collected from monitoring wells MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, and MW-11 on September 1, 2011 were analyzed for total petroleum hydrocarbons-diesel range organics (TPH-DRO) by United States Environmental Protection Agency (EPA) Method 8015B. The samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and TPH-gasoline range organics (TPH-GRO) by EPA Method 8260B/CA LUFT. Analyses were conducted by TestAmerica Laboratories, Inc. (TestAmerica) in Pleasanton, California which is certified by the California Department of Health Services (CADHS) for environmental analyses. Historical groundwater analytical data is presented in **Table 3**. A groundwater quality map is presented as **Figure 5**. Laboratory analytical results and chain of custody documentation for the September 2011 sampling event are attached in **Appendix C**.

BTEX and MTBE were not detected at or above their respective maximum contaminant levels (MCLs) or environmental screening levels (ESLs) in monitoring wells MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, or MW-11 during this groundwater monitoring event.

TPH-DRO was detected above the odor and taste threshold per the California Regional Water Quality Control Board regulations (100 micrograms per liter (µg/L)) and ESLs (100 µg/L for drinking water and 210 µg/L for non-drinking water) in monitoring wells MW-2 (4,600 µg/L) MW-3 (24,000 µg/L), MW-4 (7,700 µg/L), MW-9 (240 µg/L), MW-10 (250 µg/L), and MW-11 (1,100 µg/L). In MW-8, only the drinking

water ESL (100 µg/L) was exceeded at a concentration of 200 µg/L; however, it was below the non-drinking water ESL.

TPH-GRO was detected above the ESL (100 µg/L) for drinking water in monitoring wells MW-2 (140 µg/L), MW-3 (450 µg/L), and MW-4 (430 µg/L), The ESL for non-drinking water (210 µg/L) was exceeded only in monitoring wells MW-3 and MW-4.

Purge Water Handling

The purge water generated during the September 2011 groundwater sampling activities is currently drummed on site and is awaiting disposal. The manifest for this disposal will be attached in the 1st Semi-Annual report for 2012. In an attempt to reduce waste, the groundwater from future events will be passed through the Granulated Activated Carbon (GAC) bucket prior to being placed in a 55-gallon drum and the effluent will be sampled in an attempt to demonstrate that the effluent would be acceptable to be allowed to evaporate on an impermeable surface in an environmentally safe manner. This method has been used on other sites throughout California with great success.

SUMMARY

- The DTW ranged from 3.67 ft-btoc in monitoring well MW-8 to 8.35 ft-btoc in monitoring well MW-10. Groundwater elevations indicated that the apparent groundwater flow direction was generally to the south-southeast on September 1, 2011.

- BTEX and MTBE were not detected nor were they above their respective MCLs or ESLs in the sampled monitoring wells during this monitoring event.

- TPH-DRO was detected above the drinking water ESL in monitoring wells MW-2, MW-3, MW-4, MW-8, MW-9, MW-10, and MW-11.

- TPH-GRO was detected above the drinking water ESL in monitoring wells MW-2, MW-3, and MW-4.

RECOMMENDATIONS

ACEH issued a letter dated March 10, 2009, that stated UPS could discontinue analysis for BTEX and MTBE in their next semi-annual monitoring event but perform a one-time sample event for the lead scavengers ethylene dibromide (EDB) and ethylene dichloride (EDC). They also requested that naphthalene analysis be

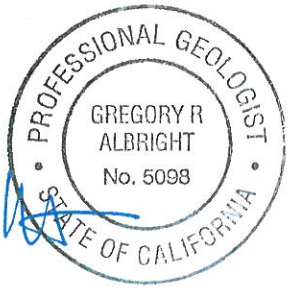
performed in areas of concern that formerly utilized diesel. They also requested the analysis of total dissolved solids on a one-time basis. ARCADIS completed the sampling per the 2009 letter. Results are presented in Table 3. ARCADIS recommends continued recovery of PSH and semi-annual groundwater sampling at this time. However, we recommend continuing to only analyzing the following parameters: TPH-DRO and TPH-GRO as these are the only parameters that currently and historically have exceeded past cleanup criteria and existing ESLs. This request is aligned with the State Water Resources Control Board's (State Water Board) cost reduction efforts and the ACEH 2009 correspondence.

In addition, ARCADIS submitted a Corrective Action Plan (CAP) in January 2012 to reduce residual soil and groundwater impacts from the operation of former diesel USTs in this immediate area to concentrations that would be deemed protective to both humans and the environment, as specified in the petroleum low threat-closure policy. As such a risk assessment report should also be submitted to ACEH once State Regional Water Quality Board's Petroleum Low - Threat Closure Policy concentrations have been met to verify protection to human and the environment.

If you have any questions regarding this report, please do not hesitate to contact me at 404.952.1604. Please send correspondence regarding this report to Ms. Julie Straub of UPS at the address provided below. Please copy ARCADIS on any such correspondence.

Sincerely,

ARCADIS



Gregory R. Albright, P.G.
Principal Geologist
California P.G. No. 5098

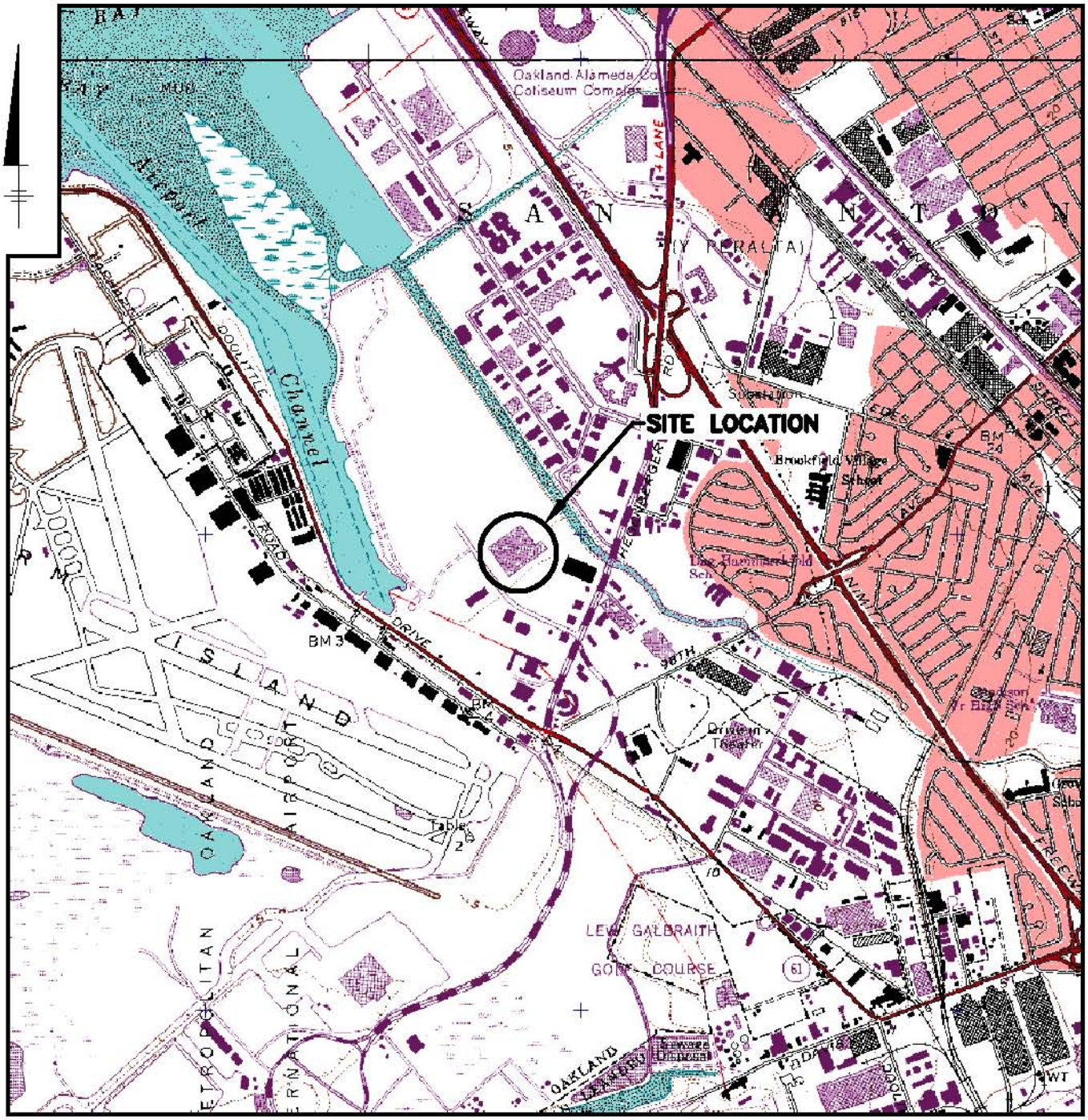
Hugh Devery
Senior Geologist

Copies:
Julie Straub – UPS Corporate Plant Engineering; 55 Glenlake Parkway NE, Atlanta, GA 30328
Douglas Herman, Port of Oakland; 530 Water Street, Oakland, CA 94607
File

ARCADIS

Figures

UPS – Oakland Hub



NOTES:

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

0 2000' 4000'

APPROXIMATE SCALE: 1"=2000'

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA

SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY:TMAPA,FL DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\TAMPA\AC Tk000038398 UPS Oakland\000600\001000\2nd SA GMR Sept 2011\tk000038398N01.dwg LAYOUT: 1SAVED: 1/23/2012 1:03 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: PDF:APPLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/23/2012 1:04 PM BY: RICHARDS, JIM
XREFS: IMAGES: PROJECTNAME: ----
UPS-OAK.bmp

0 200' 400'

GRAPHIC SCALE

SOURCE: AERIAL PHOTOGRAPH PROVIDED BY GOOGLE EARTH PRO.

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA

FACILITY LAYOUT MAP

ARCADIS

FIGURE 2

CITY:TAMPA DIV/GROUP:ENV-141 DB:JAR LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\TAMPA\AC TM\00038398 UPS Oakland\00060010002nd SA GMR Sept 2011\B0003839801.dwg LAYOUT: 2SAVED: 1/23/2012 1:17 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: PDF-APPLOTSTYLETABLE: PLTFULLCTBPLOTTED: 1/23/2012 1:18 PM BY: RICHARDS, JIM
XREFS: IMAGES: PROJECTNAME: ---
AREA MAP.jpg
UPSOakland.jpg

LEGEND:

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

0 50' 100'

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA

SITE MAP

ARCADIS

FIGURE 3

MONITORING WELL LOCATION

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

(5.78) GROUNDWATER ELEVATION (FEET)

7.00 GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 1.00 FOOT

APPARENT DIRECTION OF
GROUNDWATER FLOW

0 50' 100'

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR MAP
SEPTEMBER 1, 2011

ARCADIS

FIGURE
4

MW-4	
DATE	9/1/2011
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	430
TPHD	7,700

MW-9	
DATE	9/1/2011
B	<0.50
T	0.55
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	240

MW-2	
DATE	9/1/2011
B	0.59
T	4.90
E	0.98
X	10.0
M	<0.50
TPHG	140
TPHD	4,600

MW-10	
DATE	9/1/2011
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	250

MW-11	
DATE	9/1/2011
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	1,100

MW-8	
DATE	9/1/2011
B	<0.50
T	<0.50
E	<0.50
X	<1.0
M	<0.50
TPHG	<50
TPHD	200

MW-3	
DATE	9/1/2011
B	<0.50
T	1.70
E	<0.50
X	2.1
M	<0.50
TPHG	450
TPHD	24,000

LEGEND:

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

SAMPLE LOCATION	
DATE	SAMPLE DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERT-BUTYL ETHER
TPHG	TPH GASOLINE
TPHD	TPH DIESEL

RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L).

0 50' 100'

GRAPHIC SCALE

UPS-OAKLAND HUB
8400 PARDEE DRIVE, OAKLAND, CALIFORNIA

GROUNDWATER QUALITY MAP SEPTEMBER 1, 2011

ARCADIS

FIGURE 5

ARCADIS

Tables

UPS – Oakland Hub

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
MW-1	7.43	8/28/1990	3.80	3.63	--	0.00	NR
		9/20/1990	3.99	3.44	-0.19	0.00	NR
		6/19/1991	3.47	3.96	0.52	NM	NR
		7/23/1991	3.70	3.73	-0.23	NM	NR
		8/26/1991	3.92	3.51	-0.22	NM	NR
		11/18/1991	4.21	3.22	-0.29	NM	NR
		2/3/1992	3.99	3.44	0.22	NM	NR
		6/29/1992	3.38	4.05	0.61	NM	NR
		6/23/1993	2.72	4.71	0.66	NM	NR
		10/11/1993	3.87	3.56	-1.15	NM	NR
		1/4/1994	3.34	4.09	0.53	NM	NR
		5/10/1994	2.14	5.29	1.20	NM	NR
		2/1/1995	1.84	5.59	0.30	NM	NR
		8/2/1995	3.10	4.33	-1.26	NM	NR
		10/16/1995	3.75	3.68	-0.65	NM	NR
		12/28/1995	3.56	3.87	0.19	NM	NR
		6/4/1997	3.16	4.27	0.40	0.00	NR
		9/30/1999	3.75	3.68	-0.59	0.00	NR
		10/11/2000	3.88	3.55	-0.13	0.00	NR
		9/3/2002	3.73	3.70	0.15	0.00	NR
		10/22/2002	5.11	2.32	-1.38	0.05	NR
		12/23/2002	3.51	3.92	1.60	0.00	NR
		3/28/2003	3.52	3.91	-0.01	0.00	NR
		5/30/2003	3.37	4.06	0.15	0.00	NR
		6/20/2003	3.50	3.93	-0.13	0.00	NR
		7/14/2003	3.65	3.78	-0.15	0.00	NR
		8/25/2003	3.87	3.56	-0.22	0.00	NR
		9/9/2003	4.02	3.41	-0.15	0.00	NR
		9/25/2003	4.10	3.33	-0.08	0.00	NR
		10/28/2003	4.29	3.14	-0.19	0.00	NR
		11/18/2003	4.32	3.11	-0.03	0.00	NR
		12/2/2003	4.34	3.09	-0.02	0.00	NR
		1/27/2004	3.88	3.55	0.46	0.00	NR
		2/24/2004	2.75	4.68	1.13	0.00	NR
		3/29/2004	3.45	3.98	-0.70	0.00	NR
		4/19/2004	3.55	3.88	-0.10	0.00	NR
		5/20/2004	3.69	3.74	-0.14	0.00	NR
		6/22/2004	3.81	3.62	-0.12	0.00	NR
		7/27/2004	3.99	3.44	-0.18	0.00	NR
		8/24/2004	4.14	3.29	-0.15	0.00	NR
		9/29/2004	4.32	3.11	-0.18	0.00	NR
		10/25/2004	3.89	3.54	0.43	0.00	NR
		12/15/2004	3.18	4.25	0.71	0.00	NR
		1/24/2005	2.69	4.74	0.49	0.00	NR
		2/23/2005	2.48	4.95	0.21	0.00	NR
		3/23/2005	2.21	5.22	0.27	0.00	NR
		4/29/2005	2.57	4.86	-0.36	0.00	NR
		5/27/2005	2.68	4.75	-0.11	0.00	NR
		6/29/2005	2.97	4.46	-0.29	0.00	NR
		7/20/2005	3.13	4.30	-0.16	0.00	NR
		8/24/2005	3.48	3.95	-0.35	0.00	NR
		9/27/2005	3.69	3.74	-0.21	0.00	NR
		10/19/2005	3.87	3.56	-0.18	0.00	NR
		11/29/2005	3.79	3.64	0.08	0.00	NR
		12/29/2005	3.08	4.35	0.71	0.00	NR
		1/31/2006	2.91	4.52	0.17	0.00	NR
		2/28/2006	2.84	4.59	0.07	0.00	NR
		3/27/2006	2.26	5.17	0.58	0.00	NR
		4/28/2006	2.40	5.03	-0.14	0.00	NR
		6/27/2006	3.09	4.34	-0.69	0.00	NR
		7/31/2006	3.35	4.08	-0.26	0.00	NR
		8/29/2006	3.60	3.83	-0.25	0.00	NR
		9/28/2006	3.90	3.53	-0.30	0.00	NR
		10/27/2006	3.97	3.46	-0.07	0.00	NR
		11/22/2006	3.64	3.79	0.33	0.00	NR
		12/26/2006	3.04	4.39	0.60	0.00	NR
		1/25/2007	3.26	4.17	-0.22	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
MW-1	7.43	2/16/2007	3.12	4.31	0.14	0.00	NR
		3/19/2007	2.91	4.52	0.21	0.00	NR
		4/26/2007	2.93	4.50	-0.02	0.00	NR
		5/29/2007	3.15	4.28	-0.22	0.00	NR
		6/28/2007	3.42	4.01	-0.27	0.00	NR
		7/30/2007	3.60	3.83	-0.18	0.00	NR
		8/30/2007	3.85	3.58	-0.25	0.00	NR
		9/25/2007	4.00	3.43	-0.15	0.00	NR
		10/29/2007	4.05	3.38	-0.05	0.00	NR
		11/29/2007	4.10	3.33	-0.05	0.00	NR
		12/28/2007	3.80	3.63	0.30	0.00	NR
		1/24/2008	3.14	4.29	0.66	0.00	NR
		2/21/2008	2.44	4.99	0.70	0.00	NR
		3/28/2008	2.84	4.59	-0.40	0.00	NR
		4/30/2008	3.00	4.43	-0.16	0.00	NR
		5/29/2008	3.24	4.19	-0.24	0.00	NR
		6/25/2008	3.39	4.04	-0.15	0.00	NR
		7/29/2008	3.64	3.79	-0.25	0.00	NR
		8/27/2008	3.85	3.58	-0.21	0.00	NR
		9/30/2008	4.08	3.35	-0.23	0.00	NR
		10/31/2008	4.20	3.23	-0.12	0.00	NR
		11/26/2008	4.14	3.29	0.06	0.00	NR
		12/30/2008	3.94	3.49	0.20	0.00	NR
		1/22/2009	3.93	3.50	0.01	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	0.04	N/A	NR
		6/19/1991	4.66	2.49	0.28	N/A	NR
		7/23/1991	4.81	2.34	-0.15	N/A	NR
		8/26/1991	4.89	2.26	-0.08	N/A	NR
		11/18/1991	4.93	2.22	-0.04	N/A	NR
		2/3/1992	4.44	2.71	0.49	N/A	NR
		6/29/1992	4.80	2.35	-0.36	N/A	NR
		6/23/1993	4.38	2.77	0.42	N/A	NR
		10/11/1993	5.20	1.95	-0.82	N/A	NR
		1/4/1994	4.56	2.59	0.64	N/A	NR
		5/10/1994	4.20	2.95	0.36	N/A	NR
		2/1/1995	4.00	3.15	0.20	N/A	NR
		8/2/1995	4.71	2.44	-0.71	N/A	NR
		10/16/1995	5.02	2.13	-0.31	N/A	NR
		12/28/1995	4.56	2.59	0.46	N/A	NR
		6/12/1996	NM	--	--	0.25	NR
		6/4/1997	6.02	1.13	-1.46	Small globules	NR
		9/30/1999	4.95	2.20	1.07	0.00	NR
		10/11/2000	4.97	2.18	-0.02	0.08	NR
		2/12/2002	4.26	2.89	0.71	0.01	24.00
		9/3/2002	5.02	2.13	-0.76	0.07	NR
		9/27/2002	4.89	2.26	0.13	0.09	222.30
		10/22/2002	5.11	2.04	-0.22	0.05	125.00
		12/23/2002	4.25	2.90	0.86	0.04	99.00
		1/16/2003	4.28	2.87	-0.03	0.02	49.00
		2/12/2003	4.26	2.89	0.02	0.01	24.00
		3/28/2003	4.35	2.80	-0.09	0.01	25.00
		5/30/2003	3.60	3.55	0.75	0.02	49.00
		6/20/2003	4.55	2.60	-0.95	0.01	NR
		7/14/2003	4.56	2.59	-0.01	0.00	NR
		8/25/2003	4.79	2.36	-0.23	0.01	25.00
		9/9/2003	4.90	2.25	-0.11	0.01	NR
		9/25/2003	4.97	2.18	-0.07	0.01	25.00
		10/28/2003	4.98	2.17	-0.01	0.04	104.00
		11/18/2003	4.83	2.32	0.15	0.00	NR
		12/3/2003	4.87	2.28	-0.04	0.00	NR
		1/27/2004	7.39	-0.24	-2.52	0.00	NR
		2/24/2004	4.56	2.59	2.83	0.01	NR
		3/29/2004	4.24	2.91	0.32	0.01	NR
		4/19/2004	4.50	2.65	-0.26	0.01	25.00
		5/20/2004	4.53	2.62	-0.03	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
MW-2	7.15	6/22/2004	4.65	2.50	-0.12	0.00	NR
		7/27/2004	4.80	2.35	-0.15	0.00	NR
		8/24/2004	5.93	1.22	-1.13	0.00	NR
		9/29/2004	5.00	2.15	0.93	0.02	50.00
		10/25/2004	4.68	2.47	0.32	0.00	NR
		12/15/2004	4.34	2.81	0.34	0.02	50.00
		1/24/2005	4.15	3.00	0.19	0.00	NR
		2/23/2005	4.95	2.20	-0.80	0.03	74.00
		3/23/2005	4.96	2.19	-0.01	0.02	49.00
		4/29/2005	4.23	2.92	0.73	0.10	246.00
		5/27/2005	4.20	2.95	0.03	0.02	50.00
		6/29/2005	4.29	2.86	-0.09	0.00	NR
		7/20/2005	4.48	2.67	-0.19	0.04	98.00
		8/24/2005	4.71	2.44	-0.23	0.00	NR
		9/27/2005	4.98	2.17	-0.27	0.03	70.00
		10/19/2005	5.08	2.07	-0.10	0.00	NR
		11/29/2005	4.68	2.47	0.40	0.01	NR
		12/29/2005	4.19	2.96	0.49	0.01	NR
		1/31/2006	4.05	3.10	0.14	0.00	NR
		2/28/2006	4.16	2.99	-0.11	0.00	25.00
		3/27/2006	4.11	3.04	0.05	0.01	NR
		4/28/2006	4.03	3.12	0.08	0.00	NR
		6/27/2006	4.45	2.70	-0.42	0.01	NR
		7/31/2006	4.60	2.55	-0.15	0.02	NR
		8/29/2006	4.84	2.31	-0.24	0.01	NR
		9/28/2006	4.96	2.19	-0.12	0.03	NR
		10/27/2006	4.98	2.17	-0.02	0.00	NR
		11/22/2006	4.58	2.57	0.40	0.00	NR
		12/26/2006	4.22	2.93	0.36	0.02	NR
		1/25/2007	4.44	2.71	-0.22	0.00	NR
		2/16/2007	4.13	3.02	0.31	0.00	NR
		3/19/2007	4.30	2.85	-0.17	0.01	NR
		4/26/2007	4.17	2.98	0.13	0.03	NR
		5/29/2007	4.42	2.73	-0.25	0.01	25.00
		6/28/2007	5.16	1.99	-0.74	0.01	25.00
		7/30/2007	4.71	2.44	0.45	0.00	NR
		8/30/2007	4.94	2.21	-0.23	0.03	NR
		9/25/2007	5.06	2.09	-0.12	0.01	25.00
		10/29/2007	4.75	2.40	0.31	0.01	25.00
		11/29/2007	4.69	2.46	0.06	0.00	NR
		12/28/2007	4.35	2.80	0.34	0.00	NR
		1/24/2008	4.08	3.07	0.27	0.00	NR
		2/21/2008	3.97	3.18	0.11	0.01	25.00
		3/28/2008	4.18	2.97	-0.21	0.00	NR
		4/30/2008	4.40	2.75	-0.22	0.00	NR
		5/29/2008	4.58	2.57	-0.18	0.01	20.00
		6/25/2008	4.58	2.57	0.00	0.00	NR
		7/29/2008	4.85	2.30	-0.27	0.00	NR
		8/27/2008	4.89	2.26	-0.04	0.01	25.00
		9/30/2008	5.14	2.01	-0.25	0.04	98.00
		10/31/2008	5.23	1.92	-0.09	0.03	NR
		11/26/2008	4.74	2.41	0.49	0.04	NR
		12/30/2008	4.33	2.82	0.41	0.01	25.00
		1/22/2009	4.45	2.70	-0.12	0.01	25.00
	9.63	5/5/2010	4.03	5.60	2.90	0.13	NR
		10/29/2010	4.98	4.65	-0.95	0.08	NR
		2/25/2011	3.73	5.90	0.30	0.00	NR
		6/14/2011	4.23	5.40	-0.10	0.00	0.00
		7/19/2011	4.72	4.91	0.49	0.01	59.15
		8/18/2011	4.80	4.83	0.08	sheen	0.00
		9/1/2011	4.96	4.67	-0.16	sheen	0.00
		9/20/2011	5.08	4.56	-0.11	0.01	591.47
		10/19/2011	4.77	4.86	0.30	0.01	591.47
		11/22/2011	4.92	4.71	-0.15	0.01	532.32
		12/26/2011	4.92	4.71	0.00	0.01	532.32

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
MW-3	7.42	8/28/1990	3.88	3.54	--	0.00	NR
		9/20/1990	3.99	3.43	-0.11	0.00	NR
		6/19/1991	3.49	3.93	0.50	0.00	NR
		7/23/1991	3.71	3.71	-0.22	0.00	NR
		8/26/1991	3.94	3.48	-0.23	0.00	NR
		11/18/1991	4.23	3.19	-0.29	0.00	NR
		2/3/1992	4.01	3.41	0.22	0.00	NR
		6/29/1992	3.40	4.02	0.61	0.00	NR
		6/23/1993	2.75	4.67	0.65	0.00	NR
		10/11/1993	3.84	3.58	-1.09	0.00	NR
		1/4/1994	3.40	4.02	0.44	0.00	NR
		5/10/1994	2.25	5.17	1.15	0.00	NR
		2/1/1995	2.43	4.99	-0.18	0.00	NR
		8/2/1995	3.20	4.22	-0.77	0.00	NR
		10/16/1995	3.72	3.70	-0.52	0.00	NR
		12/28/1995	3.56	3.86	0.16	0.00	NR
		6/4/1997	3.20	4.22	0.36	0.00	NR
		6/3/1998	NM	–	--	0.00	
		9/30/1999	3.72	3.70	-0.52	0.00	NR
		10/11/2000	3.88	3.54	-0.16	0.00	NR
		9/3/2002	3.75	3.67	0.13	0.00	NR
		12/23/2002	3.50	3.92	0.25	0.00	NR
		3/28/2003	3.56	3.86	-0.06	0.00	NR
		5/30/2003	3.38	4.04	0.18	0.00	NR
		6/20/2003	3.52	3.90	-0.14	0.00	NR
		7/14/2003	3.65	3.77	-0.13	0.00	NR
		8/25/2003	3.99	3.43	-0.34	0.00	NR
		9/9/2003	3.99	3.43	0.00	0.00	NR
		9/25/2003	4.06	3.36	-0.07	0.00	NR
		10/28/2003	4.15	3.27	-0.09	0.00	NR
		11/18/2003	4.28	3.14	-0.13	0.00	NR
		12/2/2003	4.31	3.11	-0.03	0.00	NR
		1/27/2004	3.85	3.57	0.46	0.00	NR
		2/24/2004	3.70	3.72	0.15	0.00	NR
		3/29/2004	3.47	3.95	0.23	0.00	NR
		4/19/2004	3.55	3.87	-0.08	0.00	NR
		5/20/2004	3.65	3.77	-0.10	0.00	NR
		6/22/2004	3.83	3.59	-0.18	0.00	NR
		7/27/2004	3.98	3.44	-0.15	0.00	NR
		8/24/2004	4.14	3.28	-0.16	0.00	NR
		9/29/2004	4.30	3.12	-0.16	0.00	NR
		10/25/2004	3.85	3.57	0.45	0.00	NR
		12/15/2004	3.16	4.26	0.69	0.00	NR
		1/24/2005	2.65	4.77	0.51	0.00	NR
		2/23/2005	2.50	4.92	0.15	0.00	NR
		3/23/2005	2.48	4.94	0.02	0.00	NR
		4/29/2005	2.59	4.83	-0.11	0.00	NR
		5/27/2005	2.75	4.67	-0.16	0.00	NR
		6/29/2005	3.05	4.37	-0.30	0.00	NR
		7/20/2005	3.10	4.32	-0.05	0.00	NR
		8/24/2005	3.45	3.97	-0.35	0.00	NR
		9/27/2005	3.71	3.71	-0.26	0.00	NR
		10/19/2005	3.73	3.69	-0.02	0.00	NR
		11/29/2005	3.75	3.67	-0.02	0.00	NR
		12/29/2005	3.08	4.34	0.67	0.00	NR
		1/31/2006	2.99	4.43	0.09	0.00	NR
		2/28/2006	2.95	4.47	0.04	0.00	NR
		3/27/2006	2.60	4.82	0.35	0.00	NR
		4/28/2006	2.90	4.52	-0.30	0.00	NR
		6/27/2006	3.01	4.41	-0.11	0.00	NR
		7/31/2006	4.33	3.09	-1.32	0.00	NR
		8/29/2006	3.62	3.80	0.71	0.00	NR
		9/28/2006	3.80	3.62	-0.18	0.00	NR
		10/27/2006	3.90	3.52	-0.10	0.00	NR
		11/22/2006	3.60	3.82	0.30	0.00	NR
		12/26/2006	3.07	4.35	0.53	0.00	NR
		1/25/2007	3.25	4.17	-0.18	0.00	NR

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
MW-3	7.42	2/16/2007	3.09	4.33	0.16	0.00	NR
		3/19/2007	2.83	4.59	0.26	0.00	NR
		4/26/2007	2.94	4.48	-0.11	0.00	NR
		5/29/2007	3.18	4.24	-0.24	0.00	NR
		6/28/2007	3.41	4.01	-0.23	0.00	NR
		7/30/2007	3.62	3.80	-0.21	0.00	NR
		8/30/2007	3.84	3.58	-0.22	0.00	NR
		9/25/2007	4.03	3.39	-0.19	0.00	NR
		10/29/2007	4.06	3.36	-0.03	0.00	NR
		11/29/2007	4.10	3.32	-0.04	0.00	NR
		12/28/2007	3.78	3.64	0.32	0.00	NR
		1/24/2008	3.16	4.27	0.63	0.00	NR
		2/21/2008	2.41	5.02	0.75	0.00	NR
		3/28/2008	2.94	4.48	-0.54	0.00	NR
		4/30/2008	3.08	4.34	-0.14	0.00	NR
		5/29/2008	3.24	4.18	-0.16	0.00	NR
		6/25/2008	3.30	4.12	-0.06	0.00	NR
		7/29/2008	3.50	3.92	-0.20	0.00	NR
		8/27/2008	3.84	3.58	-0.34	0.00	NR
		9/30/2008	4.03	3.39	-0.19	0.00	NR
		10/31/2008	4.20	3.22	-0.17	0.00	NR
		11/26/2008	4.23	3.19	-0.03	0.00	NR
		12/30/2008	3.96	3.46	0.27	0.00	NR
		1/22/2009	3.96	3.46	0.00	0.00	NR
	9.89	5/5/2010	3.13	6.76	3.30	0.02	NR
		10/29/2010	4.70	5.19	-1.57	0.00	NR
		2/25/2011	1.54	8.35	3.16	0.02	NR
		6/14/2011	3.25	6.64	-1.71	0.05	0.00
		7/19/2011	3.53	6.36	-0.28	0.02	532.32
		8/18/2011	3.98	5.91	-0.45	sheen	591.47
		9/1/2011	4.12	5.77	-0.14	sheen	591.47
		9/20/2011	4.41	5.48	-0.29	sheen	591.47
		10/19/2011	4.34	5.55	0.07	sheen	561.90
		11/22/2011	4.75	5.14	-0.41	sheen	532.32
		12/26/2011	4.70	5.19	0.05	sheen	532.32
MW-4	9.77	5/5/2010	2.96	6.81	--	0.00	
		10/29/2010	4.53	5.24	-1.57	0.00	NR
		2/25/2011	1.34	8.43	3.19	0.00	NR
		9/1/2011	3.99	5.78	-2.65	0.00	NR
MW-8	8.22	5/5/2010	2.56	5.66	--	0.00	
		10/29/2010	4.39	3.83	-1.83	0.00	NR
		2/25/2011	2.69	5.53	1.70	0.00	NR
		9/1/2011	3.67	4.55	-0.98	0.00	NR
MW-9	14.63	5/5/2010	6.28	8.35	--	0.00	
		10/29/2010	6.28	8.35	0.00	0.00	NR
		2/25/2011	5.55	9.08	0.73	0.00	NR
		9/1/2011	6.05	8.58	-0.50	0.00	NR
MW-10	9.68	5/5/2010	8.28	1.40	--	0.00	
		10/29/2010	8.27	1.41	0.01	0.00	NR
		2/25/2011	4.45	5.23	3.82	0.00	NR
		9/1/2011	8.35	1.33	-3.90	0.00	NR
MW-11	9.49	5/5/2010	7.21	2.28	--	0.00	
		10/29/2010	6.83	2.66	0.38	0.00	NR
		2/25/2011	2.83	6.66	4.00	0.00	NR
		9/1/2011	6.05	3.44	-3.22	0.00	NR
OW-1	N/A	6/4/1997	7.22	NC	--	0.01	
		9/30/1999	8.35	NC	1.13	0.01	NR
		10/11/2000	6.90	NC	-1.45	0.09	NR
		2/12/2002	5.23	NC	-1.67	0.01	38.00
		9/27/2002	7.02	NC	1.79	0.14	345.78
		10/22/2002	7.34	NC	0.32	0.01	40.00
		12/23/2002	5.17	NC	-2.17	0.03	167.00
		1/16/2003	4.97	NC	-0.20	0.01	40.00
		2/12/2003	5.23	NC	0.26	0.01	38.00
		3/28/2003	5.16	NC	-0.07	0.01	25.00
		5/30/2003	4.41	NC	-0.75	0.02	77.00
		6/20/2003	4.93	NC	0.52	0.01	NR

TABLE 1
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UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
OW-1	N/A	7/14/2003	5.33	NC	0.40	0.00	NR
		8/25/2003	5.85	NC	0.52	0.00	NR
		9/9/2003	6.33	NC	0.48	0.00	NR
		9/25/2003	6.52	NC	0.19	0.01	25.00
		10/28/2003	7.26	NC	0.74	0.03	176.00
		11/18/2003	7.29	NC	0.03	0.00	NR
		12/2/2003	7.23	NC	-0.06	0.03	NR
		1/27/2004	7.96	NC	0.73	0.01	NR
		2/24/2004	6.26	NC	-1.70	0.02	NR
		3/29/2004	6.08	NC	-0.18	0.02	NR
		4/19/2004	6.29	NC	0.21	0.03	116.00
		5/20/2004	6.16	NC	-0.13	0.00	NR
		6/22/2004	6.37	NC	0.21	0.00	NR
		7/27/2004	5.67	NC	-0.70	0.04	225.00
		8/24/2004	6.81	NC	1.14	0.00	NR
		9/29/2004	7.08	NC	0.27	0.04	153.00
		10/25/2004	6.74	NC	-0.34	0.04	NR
		12/15/2004	5.33	NC	-1.41	0.04	155.00
		1/24/2005	3.98	NC	-1.35	0.00	NR
		2/23/2005	3.44	NC	-0.54	0.01	NR[5]
		3/23/2005	3.34	NC	-0.10	0.02	77.00
		4/29/2005	6.89	NC	3.55	0.13	501.00
		5/27/2005	7.18	NC	0.29	0.11	425.00
		6/29/2005	7.12	NC	-0.06	0.10	450.00
		7/20/2005	7.20	NC	0.08	0.10	556.00
		8/24/2005	7.15	NC	-0.05	0.06	249.00
		9/27/2005	7.43	NC	0.28	0.12	450.00
		10/19/2005	7.48	NC	0.05	0.11	425.00
		11/29/2005	7.00	NC	-0.48	0.04	NR
		12/29/2005	5.22	NC	-1.78	0.00	NR
		1/31/2006	5.64	NC	0.42	0.00	NR
		2/28/2006	6.53	NC	0.89	0.01	39.00
		3/27/2006	5.80	NC	-0.73	0.01	NR
		4/28/2006	6.39	NC	0.59	0.00	NR
		6/27/2006	7.82	NC	1.43	0.06	NR
		7/31/2006	5.82	NC	-2.00	0.05	NR
		8/29/2006	7.05	NC	1.23	0.07	NR
		9/28/2006	7.10	NC	0.05	0.02	NR
		10/27/2006	7.27	NC	0.17	0.02	NR
		11/22/2006	7.05	NC	-0.22	0.02	NR
		12/26/2006	6.73	NC	-0.32	0.03	NR
		1/25/2007	7.15	NC	0.42	0.00	NR
		2/16/2007	7.71	NC	0.56	0.01	NR
		3/19/2007	6.77	NC	-0.94	0.02	NR
		4/26/2007	6.66	NC	-0.11	0.01	NR
		5/29/2007	6.86	NC	0.20	0.02	76.00
		6/28/2007	6.97	NC	0.11	0.20	75.00
		7/30/2007	7.06	NC	0.09	0.01	NR
		8/30/2007	7.25	NC	0.19	0.03	NR
		9/25/2007	7.25	NC	0.00	0.03	115.00
		10/29/2007	7.43	NC	0.18	0.02	78.00
		11/29/2007	7.37	NC	-0.06	0.00	NR
		12/28/2007	7.28	NC	-0.09	0.01	40.00
		1/24/2008	6.61	NC	-0.67	0.01	38.00
		2/21/2008	6.33	NC	-0.28	0.01	37.00
		3/28/2008	6.80	NC	0.47	0.01	NR
		4/30/2008	7.44	NC	0.64	0.03	166.90
		5/29/2008	7.09	NC	-0.35	0.01	38.00
		6/25/2008	7.07	NC	-0.02	0.02	112.00
		7/29/2008	7.34	NC	0.27	0.00	NR
		8/27/2008	7.28	NC	-0.06	0.02	78.00
		9/30/2008	7.82	NC	0.54	0.03	167.00
		10/31/2008	7.31	NC	-0.51	0.01	NR
		11/26/2008	6.93	NC	-0.38	0.01	NR
		12/30/2008	7.25	NC	0.32	0.02	112.00
		1/22/2009	7.05	NC	-0.20	0.01	56.00

TABLE 1
HISTORICAL GROUNDWATER ELEVATION SUMMARY

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

Monitoring Well	Reference Elevation	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (ft)	Product Thickness (ft)	Volume Product Recovered (mL)
OW-1	9.55	5/5/2010	7.08	2.47	--	0.06	NR
		10/29/2010	7.37	2.18	-0.29	0.08	NR
		2/25/2011	6.17	3.38	1.20	0.05	NR
		6/14/2011	6.78	2.77	-0.61	0.08	0.00
		7/19/2011	7.30	2.25	-0.52	0.20	118.29
		8/18/2011	7.35	2.20	-0.05	0.03	147.87
		9/1/2011	7.35	2.20	0.00	0.03	147.87
		9/20/2011	7.41	2.14	-0.06	0.04	591.47
		10/19/2011	7.42	2.13	-0.01	0.03	532.32
		11/22/2011	7.09	2.46	0.33	0.03	29.57
		12/26/2011	7.32	2.23	-0.23	0.02	147.87

Notes:
1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NM = Not measured; NC = Not calculated; N/A= Not Available; NR = No Recovery
5. SPH detected but amount insufficient to bail

Volume of product recovered on 9/27/02 and 3/23/05 calculated based on measurements from field data sheets

TABLE 2
PSH Recovery Event

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

Monitoring Well	Date Collected	Time	Well Size	Depth to Water(foot)	Depth to Product (foot)	Product Thickness (inches)	Amount of product recovered from the Skimmer	Amount of water from the Skimmer	Notes
OW-1	12/20/2011	12:20	6"	7.32	7.30	0.02	5 OZ	-	0.75 yellow and 4.25 black
	11/22/2011	1:00	6"	7.09	7.06	0.03	1 OZ	-	Black liquid
	10/19/2011	12:20	6"	7.42	7.45	0.03	6 OZ Black 12 OZ Yellow	-	Black with strong odor, rainbow bubbles, yellow slightly translucent
	9/20/2011	12:20	6"	7.41	7.37	0.04	20 OZ	-	Yellow, strong odor, semi-translucent with layer of black liquid
	9/1/2011	9:06	6"	7.35	7.32	0.03	0	-	
	8/18/2011	2:20	6"	7.35	7.38	0.03	5 OZ	0	Black liquid with a strong odor
	7/19/2011	2:45	6"	7.3	7.1	0.2	4 OZ	16 OZ	16 OZ Yellow brown black substance on top 4 OZ Brownish-black both with strong odor
	6/14/2011	3:25	6"	6.78	6.7	0.08	-	20 OZ	No separation, strong odor, yellowish
MW-2	12/20/2011	12:30	4"	4.92	4.91	0.01	18 OZ	-	Pretty Clear-Slightly Yellowish
	11/22/2011	1:20	4"	4.92	-	-	18 OZ	-	Yellowish liquid-odor
	10/19/2011	12:30	4"	4.77	4.78	0.01	20 OZ Yellow Translucent	-	Yellow translucent, strong odor. Clack sediments
	9/20/2011	12:30	4"	5.075	5.07	-	20 OZ	-	Yellow, strong odor with layer of black liquid translucent but more transparent, black sheen on top and black particulates floating
	9/1/2011	9:00	4"	4.96	-	-	0	-	
	8/18/2011	2:50	4"	4.8	-	sheen	0	0	Little black liquid strong odor
	7/19/2011	3:15	4"	4.72	4.71	0.1	2 OZ	0	Black yellowish liquid
	6/14/2011	3:15	4"	4.23	4.2	0.03	0	0	Nothing inside well, black sludge
MW-3	12/20/2011	12:45	4"	4.7	-	-	18 OZ	-	Translucent & yellow with black particles, odor.
	11/22/2011	1:30	4"	4.75	-	-	18 OZ	-	Yellowish, odor
	10/19/2011	12:45	4"	4.34	-	-	19 OZ Yellow	-	Translucent & strong odor, Clearer than other wells
	9/20/2011	12:45	4"	4.41	4.41	0.05	20 OZ	-	Yellow, strong odor, with layer of black liquid translucent but more transparent
	9/1/2011	9:11	4"	4.12	-	sheen	0	-	
	8/18/2011	2:35	4"	3.98	-	sheen	20	-	Slightly translucent yellow strong odor
	7/19/2011	3:30	4"	3.53	3.51	0.2	18 OZ	0	Yellowish with little black liquid
	6/14/2011	3:00	4"	3.25	3.2	0.05	sheen	18 OZ	Top of the skimmers have buildups

Note: PSH = Phase Separated Hydrocarbons

TABLE 3

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

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

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	EDB µg/L	1,2-DCA µg/L	Naphthalene µg/L	TDS (mg/L)
MCL	--	1.00	150.00	300.00	1750.00	13.00	--	100*	--	--	--	--	--
ESL - Drinking Water	--	1	40	30	20	5	100	100	--	0.05	6	17	NA
ESL - Non-Drinking Water	--	46	100	43	100	1800	210	210	--	150	200	24	NA
MW-1	8/28/1990	3.00	1.40	4.00	2.40	NA	NA	21,000	NA	NA	NA	NA	NA
	6/19/1991	1.70	0.70	0.50	0.90	NA	NA	7,100	NA	NA	NA	NA	NA
	7/23/1991	1.60	1.10	0.50	1.50	NA	220	8,700	NA	NA	NA	NA	NA
	8/26/1991	180.00	120.00	31.00	160.00	NA	NA	2,800	NA	NA	NA	NA	NA
	11/18/1991	1.10	0.40	0.50	< 0.3	NA	NA	6,600	NA	NA	NA	NA	NA
	2/3/1992	0.90	< 0.3	0.80	0.70	NA	NA	2,200	NA	NA	NA	NA	NA
	6/29/1992	0.80	0.40	0.40	0.90	NA	NA	2,100	NA	NA	NA	NA	NA
	6/23/1993	0.66	< 0.5	0.50	< 0.5	NA	NA	3,200	NA	NA	NA	NA	NA
	10/11/1993	1.30	< 0.5	< 0.5	< 0.5	NA	NA	9,600	NA	NA	NA	NA	NA
	1/4/1994	2.10	0.65	1.30	2.10	NA	NA	12,000	NA	NA	NA	NA	NA
	5/10/1994	0.54	0.53	< 0.5	1.10	NA	NA	6,400	NA	NA	NA	NA	NA
	2/1/1995	< 1.0	< 1.0	1.00	< 1.0	NA	510	10,000	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	510	8,700	NA	NA	NA	NA	NA
	10/16/1995	2.80	< 0.5	< 0.5	< 0.5	NA	830	15,000	NA	NA	NA	NA	NA
	12/28/1995	2.10	< 0.5	< 0.5	< 0.5	NA	560	15,000	NA	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	28,000	0.76	NA	NA	NA	NA
	9/30/1999	< 0.5	0.60	< 0.5	1.80	<3.0	1,600	28,000	9.90	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5	260	21,000	0.39	NA	NA	NA	NA
	9/3/2002	<0.5	<0.5	<0.5	0.50	<0.5	1,00	38,000	NA	NA	NA	NA	NA
	3/28/2003	<5	<5	<5	<10	<5.0	250	35,000	NA	NA	NA	NA	NA
	9/9/2003	<0.5	<0.5	<0.5	<1.0	0.60	440	11,000	NA	NA	NA	NA	NA
	4/19/2004	3.20	<2.5	<2.5	<5.0	<2.5	280	24,000ndp	NA	NA	NA	NA	NA
	9/29/2004	<1.0	<1.0	<1.0	<2.0	2.10	1,400 g	150,000 ndp	NA	NA	NA	NA	NA
	3/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	550 Q1	15,000 Q2	NA	NA	NA	NA	NA
	11/29/2005	< 0.50	< 0.50	< 0.50	<1.0	0.94	310	7800	NA	NA	NA	NA	NA
	3/27/2006	< 0.50	< 0.50	< 0.50	<1.0	0.62	420	11000	NA	NA	NA	NA	NA
	9/28/2006	< 0.50	< 0.50	< 0.50	<1.0	0.87	220	28000	NA	NA	NA	NA	NA
	3/19/2007	< 0.50	< 0.50	< 0.50	<1.0	<1.0	940	11000	NA	NA	NA	NA	NA
	9/25/2007	<0.50	<0.50	<0.50	1.1	<0.50	240	9700	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	55	13000	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	280	9800	NA	NA	NA	NA	NA
	4/3/2009	ABANDONED											
MW-2	8/28/1990	0.60	0.40	0.60	0.70	NA	NA	3,500	NA	NA	NA	NA	NA
	6/19/1991	0.50	< 0.3	< 0.3	< 0.3	NA	NA	<500	NA	NA	NA	NA	NA
	7/23/1991	0.70	< 0.3	< 0.3	< 0.3	NA	<500	660	NA	NA	NA	NA	NA
	8/26/1991	0.70	< 0.3	< 0.3	< 0.3	NA	NA	<500	NA	NA	NA	NA	NA
	11/18/1991	0.80	< 0.3	< 0.3	< 0.3	NA	NA	3,200	NA	NA	NA	NA	NA
	2/3/1992	0.70	< 0.3	< 0.3	0.50	NA	NA	400	NA	NA	NA	NA	NA
	6/29/1992	0.60	< 0.3	< 0.3	< 0.3	NA	NA	250	NA	NA	NA	NA	NA
	6/23/1993	0.55	< 0.5	< 0.5	< 0.5	NA	NA	11,000	NA	NA	NA	NA	NA
	10/11/1993	1.20	< 0.5	< 0.5	1.30	NA	NA	1,400	NA	NA	NA	NA	NA
	1/4/1994	0.72	< 0.5	< 0.5	1.10	NA	NA	3,700	NA	NA	NA	NA	NA
	5/10/1994	0.74	< 0.5	< 0.5	0.70	NA	NA	2,300	NA	NA	NA	NA	NA
	2/1/1995	2.10	< 1.0	< 1.0	< 1.0	NA	<100	2,100	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	210	3,600	NA	NA	NA	NA	NA
	10/16/1995	0.73	< 0.5	< 0.5	< 0.5	NA	130	1,400	NA	NA	NA	NA	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	210	2,800	NA	NA	NA	NA	NA
	6/12/1996	NS	NS	NS	NS	NS	NS	--	NS	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	3,300	0.52	NA	NA	NA	NA
	9/30/1999	< 0.5	< 0.5	< 0.5	< 1.0	< 3.0	220	6,300	9.50	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	170	4,400	0.43	NA	NA	NA	NA
	9/27/2002	0.7J	<2.5	<2.5	<2.5	<2.5	17000	67,000	NA	NA	NA	NA	NA
	3/28/2003	<25	<25	<25	<50	<25	1600	10,000	NA	NA	NA	NA	NA
	9/25/2003	0.52	<0.50	<0.50	<1.0	<0.50	150	12,000	NA	NA	NA	NA	NA
	3/29/2004	0.51	<0.50	<0.50	<1.0	<0.50	84 g	7,800 ndp	NA	NA	NA	NA	NA
	9/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	630 g	10,000 ndp	NA	NA	NA	NA	NA
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	2,300 Q1	15,000 Q2	NA	NA	NA	NA	NA
	11/29/2005	<1.0	<1.0	<1.0	<2.0	<1.0	1,900	22,000	NA	NA	NA	NA	NA
	3/27/2006	<1.0	<1.0	<1.0	<2.0	<1.0	710	8,900	NA	NA	NA	NA	NA
	9/28/2006	<0.50	<0.50	<0.50	<1.0	<0.50	62	7,500	NA	NA	NA	NA	NA
	3/19/2007	<0.50	<0.50	<0.50	<1.0	<0.50	<50	11,000	NA	NA	NA	NA	NA
	9/25/2007	<0.50	<0.50	<0.50	<1.0	<0.50	55	8,700	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	210	6,200	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	220	23,000	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	<50	3,700	NA	<0.5	<0.6	<1.0	2,800
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	360	37,000	NA	NA	NA	NA	NA
	9/1/2011	0.59	4.90	0.98	10.0	<0.50	**140**	**4,600**	NA	NA	NA	NA	NA

TABLE 3

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

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

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	EDB µg/L	1,2-DCA µg/L	Naphthalene µg/L	TDS (mg/L)
MW-3	8/28/1990	0.50	0.80	4.30	2.30	NA	NA	18,000	NA	NA	NA	NA	NA
	6/19/1991	0.40	0.40	1.70	1.40	NA	NA	1,300	NA	NA	NA	NA	NA
	7/23/1991	0.30	< 0.3	1.50	0.50	NA	330	6,800	NA	NA	NA	NA	NA
	8/26/1991	13.00	13.00	5.80	26.00	NA	NA	<50	NA	NA	NA	NA	NA
	11/18/1991	0.60	< 0.3	< 0.3	< 0.3	NA	NA	2,500	NA	NA	NA	NA	NA
	2/3/1992	0.40	< 0.3	1.30	0.60	NA	NA	1,100	NA	NA	NA	NA	NA
	6/29/1992	< 0.3	< 0.3	1.30	0.30	NA	NA	3,200	NA	NA	NA	NA	NA
	6/23/1993	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	8,100	NA	NA	NA	NA	NA
	10/11/1993	1.00	< 0.5	1.50	2.40	NA	NA	7,100	NA	NA	NA	NA	NA
	1/4/1994	< 0.5	< 0.5	1.60	< 0.5	NA	NA	7,400	NA	NA	NA	NA	NA
	5/10/1994	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	5,700	NA	NA	NA	NA	NA
	2/1/1995	< 1.0	< 1.0	2.70	4.10	NA	810	10,000	NA	NA	NA	NA	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	1200	6,500	NA	NA	NA	NA	NA
	10/16/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	930	9,800	NA	NA	NA	NA	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	690	11,000	NA	NA	NA	NA	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	34,000	0.84	NA	NA	NA	NA
	9/30/1999	< 0.5	0.60	0.70	1.20	< 3.0	1300	8,700	8.60	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	430	20,000	0.51	NA	NA	NA	NA
	9/3/2002	<0.5	<0.5	<0.5	<0.5	<0.5	2,300	14,000	NA	NA	NA	NA	NA
	3/28/2003	<25	<25	<25	<50	<25	2,500	19,000	NA	NA	NA	NA	NA
	9/9/2003	<0.5	<0.5	<0.5	<1.0	<0.5	700	73,000	NA	NA	NA	NA	NA
	4/19/2004	<0.50	<0.50	<0.50	<1.0	<0.50	99	14,000 ndp	NA	NA	NA	NA	NA
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	390 g	10,000 ndp	NA	NA	NA	NA	NA
	1/24/2005	<2.5	<2.5	<2.5	<5.0	<2.5	330 Q1	14,000 Q2	NA	NA	NA	NA	NA
	11/29/2005	< 1.0	< 1.0	<1.0	< 2.0	< 1.0	1,200	8,300	NA	NA	NA	NA	NA
	3/27/2006	< 1.0	< 1.0	<1.0	< 2.0	<1.0	430	13,000	NA	NA	NA	NA	NA
	9/28/2006	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	370	17,000	NA	NA	NA	NA	NA
	3/19/2007	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	510	26,000	NA	NA	NA	NA	NA
	9/25/2007	<1.0	<1.0	<1.0	<2.0	<1.0	390	11,000	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	280	21,000	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	270	9,500	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	<150	24,000	NA	<0.50	<0.50	2.2	910
	2/25/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	<0.50	1.70	<0.50	2.1	<0.50	**450**	**24,000**	NA	NA	NA	NA	NA
MW-4	5/5/2010	NA	NA	NA	NA	NA	<50	5200	NA	<5.0	<5.0	<1.0	1,100
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	150	2000	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	250	24,000	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	**430**	**7,700**	NA	NA	NA	NA	NA
MW-8	5/5/2010	NA	NA	NA	NA	NA	<50	70	NA	<0.50	<0.50	<1.0	2,900
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	1100	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	280	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**200**	NA	NA	NA	NA	NA
MW-9	5/5/2010	NA	NA	NA	NA	NA	<50	110	NA	<0.50	<0.50	<1.0	6,200
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	580	NA	NA	NA	NA	NA
	9/1/2011	<0.50	0.55	<0.50	<1.0	<0.50	<50	**240**	NA	NA	NA	NA	NA
MW-10	5/5/2010	NA	NA	NA	NA	NA	<50	110	NA	<0.50	<0.50	<1.0	2,100
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	650	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	5,600	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**250**	NA	NA	NA	NA	NA
MW-11	5/5/2010	NA	NA	NA	NA	NA	<50	430	NA	<0.50	<0.50	<1.0	10,000
	10/29/2010	<0.5	<0.5	<0.5	<1.0	<0.5	<50	7200	NA	NA	NA	<1.0	NA
	2/25/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	1,900	NA	NA	NA	NA	NA
	9/1/2011	<0.50	<0.50	<0.50	<1.0	<0.50	<50	**1,100**	NA	NA	NA	NA	NA

TABLE 3

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

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

Monitoring Well	Date	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH as gasoline µg/L	TPH as diesel µg/L	D.O. (mg/L)	EDB µg/L	1,2-DCA µg/L	Naphthalene µg/L	TDS (mg/L)
OW-1	6/23/1993	< 0.5	< 0.5	< 0.5	31.00	NA	NA	34,000,000	NA	NA	NA	NA	NA
	6/4/1997	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA
	9/30/1999	< 2.0	< 2.0	< 2.0	4.20	< 12.0	8,300	28,000,000	9.70	NA	NA	NA	NA
	9/30/1999	< 1.0	< 1.0	1.90	8.90	< 6.0	2,900	340,000	--	NA	NA	NA	NA
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	2,100	58,000	0.74	NA	NA	NA	NA
	9/27/2002	0.6J	<2.5	<2.5	<2.5	<2.5	17,000	23,000	NA	NA	NA	NA	NA
	3/28/2003	<50	<50	<50	<100	<50	820	81,000	NA	NA	NA	NA	NA
	9/25/2003	<50	530.00	500.00	6200.00	<50	220	91,000	NA	NA	NA	NA	NA
	3/29/2004	<0.50	<0.50	<0.50	<1.0	<0.50	510	280,000 ndp	NA	NA	NA	NA	NA
	9/29/2004	<2.5	<2.5	<2.5	<5.0	<2.5	2,800 g	440,000 ndp	NA	NA	NA	NA	NA
	1/24/2005	<0.50	<0.50	<0.50	<1.0	<0.50	220 Q1	16,000 Q2	NA	NA	NA	NA	NA
	11/29/2005	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	650	30,000	NA	NA	NA	NA	NA
	3/27/2006	<13	<13	<13	<25	<13	<1,300	58,000	NA	NA	NA	NA	NA
	9/28/2006	<2.5	<2.5	<2.5	<5.0	<2.5	820	130,000	NA	NA	NA	NA	NA
	3/19/2007	<2.5	<2.5	<2.5	<5.0	<2.5	460	76,000	NA	NA	NA	NA	NA
	9/25/2007	<2.0	<2.0	<2.0	<4.0	<2.0	<200	42,000	NA	NA	NA	NA	NA
	3/28/2008	<0.50	<0.50	<0.50	<1.0	<0.50	1,700	120,000	NA	NA	NA	NA	NA
	9/30/2008	<0.50	<0.50	<0.50	<1.0	<0.50	340	180,000	NA	NA	NA	NA	NA
	5/5/2010	NA	NA	NA	NA	NA	74	7,000	NA	<0.50	<0.50	<1.0	1,800
	2/25/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/1/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

(µg/L) = are micrograms per liter and mg/L are milligrams per liter.
NA = Not Analyzed; NS = Not Sampled; NM = Not Measured
TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.
Title 22 of the California Code of Regulations, California Maximum Contaminant Levels (MCLs) for drinking water.
D.O. = Dissolved Oxygen measured in the field.
Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).
Bold values indicate analytical detections above MCL.
The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.
J - Estimated value between MDL and PQL
ndp - Hydrocarbon reported does not match the pattern of laboratory Diesel standard.
* = Not an MCL; Odor and taste threshold per the California Regional Water Quality Control Board regulations
Q2 = Quantity of unknown hydrocarbon(s) in sample based on diesel.
Q1 = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
RWQCB ESLs = Regional Water Quality Control Board ESLs for Environmental Concerns at Sites with Contaminated Soil and Groundwater INTERIM FINAL - November 2007 (Revised May 2008) San Francisco Bay Region, CA

ARCADIS

Appendix A

UPS – Oakland Hub
Groundwater Parameters and Field Notes

WELL GAUGING DATA

Project # 110901MW11 Date 9/1/11 Client ARCADIS

Site 3400 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	0900	4	ODOR SHEEN	—			4.96	14.27		SKIMMER
MW-3	0911	4	ODOR SHEEN	—			4.12	14.60		SKIMMER
MW-4	0843	2	ODOR	—			3.99	16.88		
MW-8	0850	2	ODOR	—			3.67	12.24		
MW-9	0856	2	ODOR	—			6.05	13.24		
MW-10	0931	2	ODOR	—			8.35	12.18		
MW-11	0836	2	ODOR	—			6.05	12.49		
OW-1	0906	6	SHEEN ODOR	7.32	0.03		7.35	SPH detected		SKIMMER
*	SKIMMERS		REMOVED	PRIOR	TO	GAUGING	(45 MINS)			

WELL MONITORING DATA SHEET

Project #: 113901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/6/11
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 14.27	Depth to Water (DTW): 4.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.82	

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

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

6.1 (Gals.) X 3 = 18.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1108	22.4	7.14	452	>1000	6.1	sheen, odor
1109	22.8	7.00	4131	>1000	12.2	
1110	23.0	7.01	4240	>1000	18.3	

Did well dewater? Yes ~~No~~ Gallons actually evacuated: 18.3

Sampling Date: 9/6/11 Sampling Time: 1310 Depth to Water: 9.87 (2HR)

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other TA-SF

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 SH

Project #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.60	Depth to Water (DTW): 4.12
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 Case Volume		Specified Volumes		Calculated Volume
6.8	(Gals.) X	3	=	18.4 Gals.

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1058	23.1	7.70	1404	58	6.8	
WELL	DEWATERED @			11 GALS		
1230	25.5	8.72	1378	28	—	lite yellow

Did well dewater? (Yes) No Gallons actually evacuated: 11

Sampling Date: 9/1/11 Sampling Time: 1230 Depth to Water: 4.14

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

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 #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 16.28	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]: 6.57	

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:_____

2.1 (Gals.) X 3 = 6.3 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
1034	22.7	8.03	1628	>1000	2.1	odor
1038	23.8	7.62	1514	>1000	4.2	"
1042	23.8	7.56	1470	>1000	6.3	"

Did well dewater? Yes (No) Gallons actually evacuated: 6.3

Sampling Date: 9/1/11 Sampling Time: 1050 Depth to Water: 4.02

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

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 SH

Project #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.24	Depth to Water (DTW): ~~12.2~~ 3.67
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]: 5.38	

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: ___

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

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1116	23.7	7.23	4419	114	1.4	yellow
1120	22.5	7.02	7457	221	2.8	"
1123	21.9	7.20	9900	654	4.2	

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

Sampling Date: 9/1/11 Sampling Time: 1325 Depth to Water: 9.96 (2HR)

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

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 #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 13.24	Depth to Water (DTW): 6.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.49	

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

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

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
1133	24.2	7.55	10.16	138	1.2	lite yellow
1135	23.8	6.90	23.78	320	2.4	
1137	23.4	6.91	23.58	897	3.6	

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

Sampling Date: 9/1/11 Sampling Time: 1340 Depth to Water: 11.15 (2HR)

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

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 SH

Project #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.18	Depth to Water (DTW): 8.35
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]: 9.12	

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

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

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

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0940	23.4	7.02	9298	110	0.6	yellow
0941	23.1	7.08	9499	241	1.2	"
0942	22.9	7.22	9334	505	1.8	"

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

Sampling Date: 9/1/11 Sampling Time: 0950 Depth to Water: 9.00

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

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 SH

Project #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 12.99	Depth to Water (DTW): 6.05
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]: 7.34	

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

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

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

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

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1001	21.8	7.48	6160	231	1	yellow
1003	21.5	7.14	7434	969	2	
1005	21.8	7.20	7444	>1000	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Date: 9/1/11 Sampling Time: 1220 Depth to Water: 7.23

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

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 SH

Project #: 110901-WW1	Client: ARCADIS
Sampler: WW	Date: 9/1/11
Well I.D.: DW-1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 7.35
Depth to Free Product: 7.32	Thickness of Free Product (feet): 0.03
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 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
X SPH detected						
	— NO SAMPLE TAKEN					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 9/1/11 Sampling Time: Depth to Water:

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

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

Date 9/1/11 Client ARCADIS

Site Address 8400 PARDEE DR. OAKLAND, CA

Job Number 110901-MW1 Technician MW

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

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	ARCADIS – 8400 PARDEE DR OAKLAND, CA			PROJECT NUMBER	110901-WW1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
HACH 2100P TURBIDIMETER	10117020909	9/1/11 0936	NTU: <0.1; 20; 100; 800	NTU: <0.1; 20; 100; 800	YES	—	MW
MYRON L ULTRAMETER 2	6209577	9/1/11 0931	pH: 4, 7, 10 cond: 3900 µS	pH: 7.00; 10.00; 4.00 cond: 3900 µS	YES	21.2°C	MW

SPH or Purge Water Drum Log

Client: ARCADIS

Site Address: 8400 PARDEE DR. OAKLAND, CA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	9/1/11					
Number of drum(s) empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:						
Total drum(s) on site:	0					
Are the drum(s) properly labeled?						
Drum ID & Contents:						
If any drum(s) are partially or totally filled, what is the first use date:						

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	9/1/11					
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:	1					
Number of drum(s) full:						
Total drum(s) on site:	1					
Are the drum(s) properly labeled?	yes					
Drum ID & Contents:	purge H_2O					

LOCATION OF DRUM(S)
Describe location of drum(s): DRUM STORAGE AREA

FINAL STATUS						
Number of new drum(s) left on site this event	1					
Date of inspection:	9/1/11					
Drum(s) labelled properly:	yes					
Logged by BTS Field Tech:	WJ					
Office reviewed by:	W					

ARCADIS

Appendix B

UPS – Oakland Hub
Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-37293-1
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:
09/08/2011 03:39:15 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

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

Table of Contents

Definitions/Glossary

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

TestAmerica Job ID: 720-37293-1

Qualifiers

GC Semi VOA

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

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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

TestAmerica Job ID: 720-37293-1

Job ID: 720-37293-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-37293-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-2 — Lab Sample ID: 720-37293-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.59		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Ethylbenzene	0.98		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Toluene	4.9		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	10		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C5-C12	140		50		ug/L	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	4600		51		ug/L	1		8015B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-37293-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Xylenes, Total	2.1		1.0		ug/L	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C5-C12	450		50		ug/L	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	24000		500		ug/L	10		8015B	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 720-37293-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	430		50		ug/L	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	7700		140		ug/L	3		8015B	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 720-37293-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	200		50		ug/L	1		8015B	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-37293-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.55		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	240		47		ug/L	1		8015B	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 720-37293-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		51		ug/L	1		8015B	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 720-37293-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1100		51		ug/L	1		8015B	Total/NA

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-2
Date Collected: 09/01/11 13:10
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 15:14	1
Benzene	0.59		0.50		ug/L			09/03/11 15:14	1
Ethylbenzene	0.98		0.50		ug/L			09/03/11 15:14	1
Toluene	4.9		0.50		ug/L			09/03/11 15:14	1
Xylenes, Total	10		1.0		ug/L			09/03/11 15:14	1
Gasoline Range Organics (GRO) -C5-C12	140		50		ug/L			09/03/11 15:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*09/03/11 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*67 - 130*		*09/03/11 15:14*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/03/11 15:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4600		51		ug/L		09/02/11 13:47	09/06/11 11:09	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*55*		*23 - 156*	*09/02/11 13:47*	*09/06/11 11:09*	*1*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-3
Date Collected: 09/01/11 12:30
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 15:43	1
Benzene	ND		0.50		ug/L			09/03/11 15:43	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 15:43	1
Toluene	**1.7**		0.50		ug/L			09/03/11 15:43	1
Xylenes, Total	**2.1**		1.0		ug/L			09/03/11 15:43	1
Gasoline Range Organics (GRO) -C5-C12	**450**		50		ug/L			09/03/11 15:43	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*09/03/11 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*67 - 130*		*09/03/11 15:43*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/03/11 15:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24000**		500		ug/L		09/02/11 13:47	09/06/11 17:33	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D*	*23 - 156*	*09/02/11 13:47*	*09/06/11 17:33*	*10*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-4
Date Collected: 09/01/11 10:50
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 16:12	1
Benzene	ND		0.50		ug/L			09/03/11 16:12	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 16:12	1
Toluene	ND		0.50		ug/L			09/03/11 16:12	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 16:12	1
Gasoline Range Organics (GRO) -C5-C12	430		50		ug/L			09/03/11 16:12	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*09/03/11 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*67 - 130*		*09/03/11 16:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/03/11 16:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7700		140		ug/L		09/02/11 13:47	09/06/11 17:58	3

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*23 - 156*	*09/02/11 13:47*	*09/06/11 17:58*	*3*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-8
Date Collected: 09/01/11 13:25
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 16:41	1
Benzene	ND		0.50		ug/L			09/03/11 16:41	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 16:41	1
Toluene	ND		0.50		ug/L			09/03/11 16:41	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 16:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/03/11 16:41	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*09/03/11 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*67 - 130*		*09/03/11 16:41*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/03/11 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	200		50		ug/L		09/02/11 13:47	09/06/11 18:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*23 - 156*	*09/02/11 13:47*	*09/06/11 18:47*	*1*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-9
Date Collected: 09/01/11 13:45
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 18:37	1
Benzene	ND		0.50		ug/L			09/03/11 18:37	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 18:37	1
Toluene	**0.55**		0.50		ug/L			09/03/11 18:37	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 18:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/03/11 18:37	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*09/03/11 18:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*67 - 130*		*09/03/11 18:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/03/11 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]	**240**		47		ug/L		09/02/11 13:47	09/06/11 13:42	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*82*		*23 - 156*	*09/02/11 13:47*	*09/06/11 13:42*	*1*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-10
Date Collected: 09/01/11 09:50
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 19:05	1
Benzene	ND		0.50		ug/L			09/03/11 19:05	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 19:05	1
Toluene	ND		0.50		ug/L			09/03/11 19:05	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 19:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/03/11 19:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*09/03/11 19:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*67 - 130*		*09/03/11 19:05*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/03/11 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]	250		51		ug/L		09/02/11 13:47	09/06/11 15:56	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*93*		*23 - 156*	*09/02/11 13:47*	*09/06/11 15:56*	*1*

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-11
Date Collected: 09/01/11 12:20
Date Received: 09/01/11 16:45

Lab Sample ID: 720-37293-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 19:34	1
Benzene	ND		0.50		ug/L			09/03/11 19:34	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 19:34	1
Toluene	ND		0.50		ug/L			09/03/11 19:34	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 19:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/03/11 19:34	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*09/03/11 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*67 - 130*		*09/03/11 19:34*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/03/11 19:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		51		ug/L		09/02/11 13:47	09/06/11 16:20	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*73*		*23 - 156*	*09/02/11 13:47*	*09/06/11 16:20*	*1*

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

Lab Sample ID: MB 720-98472/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			09/03/11 11:09	1
Benzene	ND		0.50		ug/L			09/03/11 11:09	1
Ethylbenzene	ND		0.50		ug/L			09/03/11 11:09	1
Toluene	ND		0.50		ug/L			09/03/11 11:09	1
Xylenes, Total	ND		1.0		ug/L			09/03/11 11:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			09/03/11 11:09	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*09/03/11 11:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*67 - 130*		*09/03/11 11:09*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/03/11 11:09*	*1*

Lab Sample ID: LCS 720-98472/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	25.0	20.2		ug/L		81	62 - 130
Benzene	25.0	25.5		ug/L		102	82 - 127
Ethylbenzene	25.0	28.9		ug/L		116	86 - 135
Toluene	25.0	27.8		ug/L		111	83 - 129
m-Xylene & p-Xylene	50.0	60.3		ug/L		121	70 - 142
o-Xylene	25.0	28.0		ug/L		112	89 - 136

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*77*		*67 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCS 720-98472/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	458		ug/L		92	62 - 117

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*67 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 720-98472/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 98472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	20.6		ug/L		82	62 - 130	2	20

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

Lab Sample ID: LCSD 720-98472/6
Matrix: Water
Analysis Batch: 98472

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene			25.0	25.0		ug/L		100	82 - 127	2	20
Ethylbenzene			25.0	28.0		ug/L		112	86 - 135	3	20
Toluene			25.0	27.2		ug/L		109	83 - 129	2	20
m-Xylene & p-Xylene			50.0	58.7		ug/L		117	70 - 142	3	20
o-Xylene			25.0	27.5		ug/L		110	89 - 136	2	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*81*		*67 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 720-98472/8
Matrix: Water
Analysis Batch: 98472

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	424		ug/L		85	62 - 117	8	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*67 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 720-98424/1-A
Matrix: Water
Analysis Batch: 98499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		09/02/11 13:47	09/06/11 09:51	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*102*		*23 - 156*	*09/02/11 13:47*	*09/06/11 09:51*	*1*

Lab Sample ID: LCS 720-98424/2-A
Matrix: Water
Analysis Batch: 98499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98424

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1640		ug/L		66	40 - 150		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*106*		*23 - 156*

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

Lab Sample ID: LCSD 720-98424/3-A
Matrix: Water
Analysis Batch: 98499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98424

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1510		ug/L		60	40 - 150	8	35

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*103*		*23 - 156*

QC Association Summary

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

TestAmerica Job ID: 720-37293-1

GC/MS VOA

Analysis Batch: 98472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37293-1	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-2	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-3	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-4	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-5	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-6	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-37293-7	MW-11	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-98472/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-98472/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-98472/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-98472/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-98472/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 98424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37293-1	MW-2	Total/NA	Water	3510C	
720-37293-2	MW-3	Total/NA	Water	3510C	
720-37293-3	MW-4	Total/NA	Water	3510C	
720-37293-4	MW-8	Total/NA	Water	3510C	
720-37293-5	MW-9	Total/NA	Water	3510C	
720-37293-6	MW-10	Total/NA	Water	3510C	
720-37293-7	MW-11	Total/NA	Water	3510C	
LCS 720-98424/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-98424/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-98424/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 98499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-37293-1	MW-2	Total/NA	Water	8015B	98424
720-37293-2	MW-3	Total/NA	Water	8015B	98424
720-37293-3	MW-4	Total/NA	Water	8015B	98424
720-37293-4	MW-8	Total/NA	Water	8015B	98424
720-37293-5	MW-9	Total/NA	Water	8015B	98424
720-37293-6	MW-10	Total/NA	Water	8015B	98424
720-37293-7	MW-11	Total/NA	Water	8015B	98424
LCS 720-98424/2-A	Lab Control Sample	Total/NA	Water	8015B	98424
LCSD 720-98424/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	98424
MB 720-98424/1-A	Method Blank	Total/NA	Water	8015B	98424

Lab Chronicle

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-2

Lab Sample ID: 720-37293-1

Date Collected: 09/01/11 13:10
Matrix: Water
Date Received: 09/01/11 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	98472	09/03/11 15:14	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		1	98499	09/06/11 11:09	DH	TAL SF

Client Sample ID: MW-3

Lab Sample ID: 720-37293-2

Date Collected: 09/01/11 12:30
Matrix: Water
Date Received: 09/01/11 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	98472	09/03/11 15:43	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		10	98499	09/06/11 17:33	DH	TAL SF

Client Sample ID: MW-4

Lab Sample ID: 720-37293-3

Date Collected: 09/01/11 10:50
Matrix: Water
Date Received: 09/01/11 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	98472	09/03/11 16:12	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		3	98499	09/06/11 17:58	DH	TAL SF

Client Sample ID: MW-8

Lab Sample ID: 720-37293-4

Date Collected: 09/01/11 13:25
Matrix: Water
Date Received: 09/01/11 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	98472	09/03/11 16:41	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		1	98499	09/06/11 18:47	DH	TAL SF

Client Sample ID: MW-9

Lab Sample ID: 720-37293-5

Date Collected: 09/01/11 13:45
Matrix: Water
Date Received: 09/01/11 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	98472	09/03/11 18:37	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		1	98499	09/06/11 13:42	DH	TAL SF

Lab Chronicle

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

TestAmerica Job ID: 720-37293-1

Client Sample ID: MW-10

Lab Sample ID: 720-37293-6

Date Collected: 09/01/11 09:50

Matrix: Water

Date Received: 09/01/11 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	98472	09/03/11 19:05	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		1	98499	09/06/11 15:56	DH	TAL SF

Client Sample ID: MW-11

Lab Sample ID: 720-37293-7

Date Collected: 09/01/11 12:20

Matrix: Water

Date Received: 09/01/11 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	98472	09/03/11 19:34	LL	TAL SF
Total/NA	Prep	3510C			98424	09/02/11 13:47	RU	TAL SF
Total/NA	Analysis	8015B		1	98499	09/06/11 16:20	DH	TAL SF

Laboratory References:
TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

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

TestAmerica Job ID: 720-37293-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

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

TestAmerica Job ID: 720-37293-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

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

Laboratory References:

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

Sample Summary

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

TestAmerica Job ID: 720-37293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-37293-1	MW-2	Water	09/01/11 13:10	09/01/11 16:45
720-37293-2	MW-3	Water	09/01/11 12:30	09/01/11 16:45
720-37293-3	MW-4	Water	09/01/11 10:50	09/01/11 16:45
720-37293-4	MW-8	Water	09/01/11 13:25	09/01/11 16:45
720-37293-5	MW-9	Water	09/01/11 13:45	09/01/11 16:45
720-37293-6	MW-10	Water	09/01/11 09:50	09/01/11 16:45
720-37293-7	MW-11	Water	09/01/11 12:20	09/01/11 16:45

720-37293

BLAINE
TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 110901-MW1

CLIENT: ARCADIS U.S., Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

LAB: TA - SF 133035 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

09/08/2011

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH-Gro, BTEX, MTBE (8260)	TPH-D (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	9/1/11	1310	W	5	3 HCL Voas 2 NP ambers		6	✓				
MW-3		1230					✓	✓				
MW-4		1050					✓	✓				
MW-8		1325					✓	✓				
MW-9		1345					✓	✓				
MW-10		0950					✓	✓				
MW-11		1220					✓	✓				

SAMPLING COMPLETED: DATE 9/1/11 TIME 1345
SAMPLING PERFORMED BY: William Wong

RESULTS NEEDED NO LATER THAN: Standard TAT 3 to 6 C

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	9/1/11	1505	Samore (Courier)	9/1/11	1505
(Sample Custodian)	9/1/11	1525	(TAT-F)	9/1/11	1525
	09/02/11	1645		9/1/11	1645

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 720-37293-1

Login Number: 37293

List Source: TestAmerica San Francisco

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	3.6
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	