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**November 3, 2010**

Jerry Wickham  
Senior Hazardous Materials Specialist  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**SUBJECT: Fuel Leak Case No. RO0000085**  
**SF Oakland Truck Stop**  
**8255 San Leandro Street**  
**Oakland, CA 94621**  
**Report Submittal –Semi-Annual Groundwater Monitoring Report- Third Quarter 2010**

Dear Mr. Wickham:

Please find enclosed the *Semi-Annual Groundwater Monitoring Report*, prepared by Matriks/HCE for Nissan Saidian.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Please call me at 530-406-1760 or email [thenderson@matrikscorp.com](mailto:thenderson@matrikscorp.com) if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Tom Henderson" followed by a stylized flourish.

Tom Henderson  
President

**SEMI-ANNUAL GROUNDWATER MONITORING REPORT**  
***Third Quarter 2010***

**SF Oakland Truck Stop**  
**8255 San Leandro Street**  
**Oakland, California 94621**  
LOP Case No. RO0000085

**PREPARED FOR:**  
Nissan Saidian  
5733 Medallion Court  
Castro Valley, California 94552

**SUBMITTED TO:**  
Alameda County Environmental Health Services  
Local Oversight Program  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Project No. 6020**  
**November 3, 2010**



**PREPARED BY:**  
Matriks Corporation  
321 Court Street  
Woodland, California 95695

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**PROFESSIONAL CERTIFICATION**  
**SEMI-ANNUAL GROUNDWATER MONITORING REPORT**  
**Third Quarter 2010**

**SF Oakland Truck Stop**  
**8255 San Leandro Street**  
**Oakland, California 94621**  
LOP Case No. RO0000085



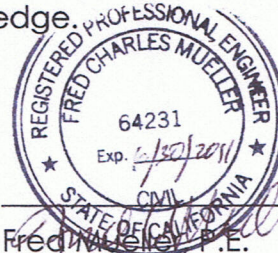
**Project No. 6020**

Matriks Corporation prepared this document under the professional supervision of the person whose seal and signature appears here on. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions, and recommendations contained in this document are based upon site conditions at the time of the investigation, which are subject to change.

The conclusions presented in this document are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. The limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other regulatory agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user. I declare, under penalty of perjury, that the information and/or recommendations contained document or report is true and correct to the best of my knowledge.

A handwritten signature in blue ink, appearing to read "Tom Henderson", written over a horizontal line.

Tom Henderson  
President



Fred Mueller P.E.  
Senior Engineer

## ACRONYMS AND ABBREVIATIONS

ACEHS	Alameda County Environmental Health Services
amsl	above mean sea level
ASE	Aqua Science Engineers, Inc.
DCA	1,2-dichloroethane
DIPE	di-isopropyl ether
DO	dissolved oxygen
EDB	ethylene di-bromide
EDF	electronic data file
ESL	Environmental Screening Level
EtBE	ethyl tert-butyl ether
ft	feet
fbg	feet below grade
ft/ft	foot per foot
Geotracker	Geographical Information Management System
Matriks	Matriks Corporation
MtBE	methyl tert-butyl ether
mg/Kg	milligrams per kilogram
mg/L	milligrams per liter
mL	milliliter
MW	monitoring well
Penn	Penn Environmental
RWQCB	Regional Water Quality Control Board
SC	specific conductance
SRS	sensitive receptor survey
tAME	tert-amyl methyl ether
tBA	tert butyl alcohol
TDS	total dissolved solids
TOG	total oil and grease
TPH-d	total petroleum hydrocarbons as diesel
TPH-g	total petroleum hydrocarbons as gasoline

µg/L	micrograms per liter
µS	microsiemens
UST	underground storage tank
VOA	volatile organic analysis

## INTRODUCTION

This report has been prepared to describe the results of the semi-annual groundwater monitoring event during the third quarter 2010, conducted by Matriks Corporation (Matriks) at the Oakland S.F. Truck Stop (the "Site"), located at 8255 San Leandro Street, Oakland, California. The semi-annual groundwater monitoring event described herein is part of an ongoing monitoring program of petroleum hydrocarbons in groundwater caused by an unauthorized release of petroleum fuels from USTs and/or the associated piping formerly located at the Site. Matriks is conducting the monitoring program on behalf of the Site owner and responsible party, Mr. Nissan Saidian. The ACEHS is the lead agency and has determined that this is a high priority site based on California's MtBE guidelines and the presence of a domestic water supply well in proximity to the contaminant plume. The ACEHS case number for the Site is RO0000085. This semi-annual groundwater monitoring event included the collection and laboratory analysis of groundwater samples from groundwater monitoring wells EX-1, EX-2, MW-2, MW-4, MW-5, and MW-10.

## PHYSICAL SETTING

### *Site Description*

The Site is currently an active fuel and weigh station and convenience mart that has been in operation since the 1960s. The surrounding area is comprised of mixed commercial and industrial properties. The Site is located approximately 1 ¼ mile east of San Francisco Bay and approximately ½ mile south of the Oakland-Alameda County Coliseum Complex. Elmhurst Creek provides storm drainage for the surrounding area and flows northwesterly across the west side of the Site. The Site and surrounding area are flat and the Site elevation is approximately 10 feet above mean seal level (amsl). A Site location map is shown on **Figure 1**.

### *Geology and Soils*

Numerous soil borings have been drilled at the Site over the past several years. The boring logs indicate that organic-rich clay is present from the surface to about 16 feet below grade (fbg). This is consistent with the intertidal deposits shown on the published geologic map for this area. At some boring locations, the clay extends deeper, but with less organic matter. Beneath the clay, sandy intervals are generally encountered from 17 to 40 fbg. The sand layers contain clay, silt, and gravel. Layers of clay or silt several feet thick were present within the sandy interval in some of the borings. Groundwater was first encountered in the borings at depths ranging from 5 to 11 fbg.



## **Groundwater**

Groundwater monitoring wells have been installed at the project Site during several drilling events. These wells are 16 to 20 feet (ft) deep. Monitoring well construction details are included in **Table 1**. The static water levels in the monitoring wells range seasonally from approximately 2.5 to 9.5 ft amsl. The groundwater flow direction is generally to the west. Depending upon which wells are used for the calculations, the gradient has ranged from 0.001 to 0.008 ft/ft. Assuming a gradient of 0.001 ft/ft, effective porosity of 30%, and hydraulic conductivity of 9 gallons/day/ft<sup>2</sup>, the seepage velocity of the groundwater is estimated at 0.004 ft/day. Groundwater samples from the monitoring wells have had specific conductance (SC) values ranging from 455 microsiemens (μS) to 1,835 μS, suggesting that total dissolved solids (TDS) concentrations are in the approximate range of 320 milligrams per liter (mg/L) to 1,285 mg/L.

## **PROJECT BACKGROUND AND DATA SUMMARY**

### ***Site History***

In May 1998, W.A. Craig, Inc. removed two 4,000-gallon gasoline USTs and one 550-gallon waste oil UST.

In January 1999, Penn Environmental (Penn) was attempting to remove another waste oil UST and encountered difficulties due to the UST's proximity to underground utilities. Penn requested permission from ACEHS and the City of Oakland Fire Department to close the tank in-place. According to a letter report from Penn dated May 27, 1999, ACEHS and the Oakland Fire Department would consider closure in-place if a water sample collected from the tank pit did not contain concentrations of total oil and grease above regulatory action concentrations. Total oil and grease was not detected in the water sample collected from the tank pit and a review of available records on the ACEHS website appears to indicate that the requirements for closure in-place were met and the tank was closed in-place (ACEHS June 15, 1999).

In February 1999, Penn drilled 13 soil borings at the Site and installed groundwater monitoring wells in four of the borings (MW-1 through MW-4). Petroleum hydrocarbons were detected in soil samples from each boring except B7. Petroleum hydrocarbons were also detected in groundwater samples from each open boring and in each monitoring well. The highest concentration of methyl tert-butyl ether (MtBE) detected by laboratory analysis in the boring soil samples was 3.9 milligrams per kilogram (mg/Kg) in boring B-2 at a depth of 4 ft. The highest concentration of total petroleum hydrocarbons as diesel (TPH-d) in the boring soil samples was 2,000 mg/Kg, in boring B-6 at a depth of 4 ft. The highest concentration of MtBE detected in groundwater from the open borings was 28,000 micrograms per liter (μg/L) in B-8. The highest concentration of TPH-d detected in the groundwater monitoring well samples was 62,000 μg/L, in groundwater monitoring well MW-1.

In August 1999, Aqua Science Engineers, Inc. (ASE) began conducting quarterly groundwater monitoring events at the Site. Monitoring well MW-1 contained free-phase petroleum hydrocarbons believed to be diesel due to its dark color. Laboratory analysis detected 56,000 µg/L TPH-g, 17,000 µg/L benzene, and 6,100 µg/L MtBE in MW-3.

On December 1, 1999, ASE installed two additional groundwater monitoring wells, MW-5 and MW-6. Free-phase petroleum hydrocarbons were again observed on the groundwater surface in monitoring well MW-1. Laboratory analysis detected 17 mg/Kg TPH-d in a soil sample from well boring MW-5 at 6 ft and 2.0 mg/Kg TPH-g in a soil sample from MW-6 also at 6 ft. Both analytical results were noted by the laboratory to have non-typical patterns for TPH-g.

In May and June 2000, ASE drilled eight additional soil borings. The highest concentration of petroleum hydrocarbons detected in boring BH-G was 1,500 mg/Kg TPH-d at 12 ft, in boring BH-A 370 mg/Kg TPH-g and 2.3 mg/Kg benzene at 7.5 feet, and in boring BH-D 1.7 mg/Kg MtBE at 11.5 ft.

In July 2002, ASE installed three additional monitoring wells (MW-7, MW-8, and MW-9). Well locations are depicted in **Figure 2**. ASE also made several attempts to drill a boring in San Leandro Street to define the eastern extent of petroleum hydrocarbons in soil and groundwater east of the Site. Each attempt was met with refusal at relatively shallow depths.

In the report documenting the July 2002 monitoring well installations, ASE presented findings of a sensitive receptor survey (SRS) conducted for the Site. The SRS concluded that due to the flat topography of the area and its close proximity to San Francisco Bay, Elmhurst Creek is likely to be tidally influenced. ASE also concluded that this was a likely explanation for the variable groundwater gradient at the Site (ASE 2002). The SRS also identified three wells within a 2,000-foot radius of the Site. One well was identified as industrial and two wells were identified as irrigation wells. No domestic or municipal water supply wells were identified within the search radius (ASE 2002). The current status of these wells has not been assessed.

In February 2004, ASE subcontracted Subtronic Corporation to perform a ground magnetometer geophysical survey on the Site to identify additional USTs. No USTs were identified although two areas were identified that appeared to have buried reinforced concrete due to the magnetic response of the rebar which might mask the USTs. The presence of buried metal objects, such as a UST, could not be ruled out in these areas (ASE 2004). Subtronic subsequently conducted a ground penetrating radar geophysical survey of the two magnetometer anomalies in September 2006. No USTs were identified in either location (ASE 2007).

On July 10, 2006, ASE collected a sample of free-phase petroleum hydrocarbons from monitoring well MW-1. The sample was analyzed by modified EPA Method 8015 and a forensic analysis was conducted on the chromatogram. The laboratory indicated that the product was

indicative of middle distillates such as diesel fuel #2 or heating oil. The abundance of isoprenoids in conjunction with the absence of normal alkanes indicates that the fuel had undergone substantial biological degradation (ASE 2007).

In September 2006, ASE advanced 11 soil borings. Borings BH-I through BH-L and BH-S, were advanced to a depth of 50 ft, using an EP Sonic drill rig. Borings BH-M through BH-R were installed on and off-site using a Geoprobe direct push drill rig. The highest concentration of TPH-d detected by laboratory analysis of soil samples from boring BH-L was 2,200 mg/Kg at 19.5 ft. Boring BH-L also contained the highest concentration of MtBE at 0.81 mg/Kg at 14.5 ft. The highest concentration of tBA detected in boring BH-I was 2.2 µg/L at 14.5 ft. The groundwater sample from BH-L reported the highest level of TPH-d concentrations of 27,000 µg/L (15-18 feet bgs) (ASE 2007).

During this same time, six temporary well points were installed to define the extent of free-phase floating petroleum hydrocarbons in the vicinity of the dispenser islands. PVC casing was placed in the temporary well points and remained overnight. Free-phase floating petroleum hydrocarbons were measured in boring TH-6 at a thickness of 2.54 ft. None of the other borings contained a measurable thickness of free-phase floating petroleum hydrocarbons but a petroleum hydrocarbon sheen was observed. While the borings were being backfilled, ASE noted that a thin layer of free-phase petroleum hydrocarbons was pushed to the surface on top of the cement in borings TH-2 and TH-4. Based on the results from the temporary wells, ASE returned in January 2007 and installed additional temporary well points, TH-7 and TH-8. The PVC casing was placed in these wells for six hours. After six hours there was only water in boring TH-7. Laboratory analysis detected 22,000 µg/L in a groundwater sampled collected from TH-7.

Free-phase floating hydrocarbons were removed from monitoring well MW-1 from August 1999 to March 2008, on schedules ranging from weekly to monthly. According to ASE's report dated March 9, 2007, over 140 gallons of free-phase floating diesel had been removed from monitoring well MW-1 as of March 2007.

ASE installed monitoring well MW-10 on October 10, 2006. Laboratory analytical results for a groundwater water sample collected from MW-10 on October 12, 2006 contained 1.7 µg/L MtBE and 82 µg/L tBA. No other analytes were detected in this sample.

ASE prepared and submitted to ACEHS the *Revised Remedial Action Plan for Underground Storage Tank and Dispenser Removal and Soil and Groundwater Remediation*, dated August 16, 2007 which was supplemented by, *Remedial Action Plan Addendum, Oakland Truck Stop*, dated October 19, 2007. The plans proposed site remediation through excavation, dewatering, and free-phase floating product removal.

In a letter dated May 6, 2008, the ACEHS requested that the proposed scope of work be reviewed for the initial soil excavation and a Revised Corrective Action Plan be submitted.

In May 2008, the Site owners retained Matriks to conduct quarterly groundwater monitoring and prepare for further site remediation. Matriks prepared and submitted to ACEHS a *Revised Corrective Action Plan*, dated May 7, 2008 that included the construction of a French drain under the existing dispenser islands to facilitate the future removal of free-phase floating product. ACEHS approved the work in a letter dated May 16, 2008. The approved plan included a reduced amount of excavation, free-phase product removal, and the abandonment of monitoring wells MW-1, MW-3, and MW-6.

In July 2008, monitoring wells MW-1, MW-3, and MW-6 were properly abandoned during the removal of five USTs and all associated piping and dispensers. Approximately 2,330 tons of petroleum hydrocarbon impacted soil was also removed. A large French drain was constructed beneath the dispenser islands and is in connection with extraction well EX-1. Excavation extents are shown on **Figure 3**. Three new double-walled USTs, six new dispensers, new double-walled piping and containment sumps, and a continuous monitoring system were installed to prevent further hydrocarbon releases onsite.

## SEMI-ANNUAL MONITORING SCOPE OF WORK

The scope of work performed for this semi-annual monitoring included the following tasks:

- Measured static water levels in six monitoring wells;
- Measured groundwater, collected field quality parameters of dissolved oxygen (DO), pH, temperature, and SC from each well;
- Purged at least three casing volumes from each well;
- Collected groundwater samples from each well;
- Analyzed groundwater samples for THP-d, TPH-g, TPH-motor oil, BTEX, MtBE, DIPE, EtBE, tAME, tBA, methanol, ethanol, EDB, and DCA (see the *Monitoring Well Purging and Sampling* section of this report for analytical methods used);
- Updated the Geotracker database; and
- Prepared this Semi-Annual Monitoring Report.

## **Methods**

### ***Groundwater Level Measurements***

The semi-annual groundwater monitoring event was conducted on September 29 and 30, 2010. Each well cap was removed and the water level was allowed to equilibrate with atmospheric pressure for approximately 30 minutes before taking a water depth measurement with an electronic water depth indicator. The static water level measurements were referenced to the surveyed marks on the top of each well casing. The depth-to-water measurements were used to calculate the purge volume of each monitoring well.

### ***Monitoring Well Purging and Sampling***

Prior to sample collection, at least three well volumes were purged from each well using a clean disposable bailer. During purging, groundwater temperature, DO, pH, and SC were measured and recorded at regular intervals with portable instrumentation. Water quality measurements were recorded on monitoring well sampling logs, copies of which are included in **Appendix A**. Well purge water was placed into labeled 55-gallon, DOT-approved steel drums, sealed, and temporarily stored onsite for subsequent proper disposal.

Following purging, groundwater samples were collected from each monitoring well using a new disposable bailer. Samples for TPH-G, BTEX, and fuel oxygenates were decanted into laboratory supplied 40-mL volatile organic analysis (VOA) vials containing hydrochloric acid as a preservative. Care was taken to eliminate headspace in each VOA prior to capping. Samples for TPH-d and TPH-motor oil were decanted into laboratory supplied 1-liter amber glass jars. Samples were labeled to indicate the project number, sample ID, and date collected. The same information was recorded on the chain-of-custody forms. Samples were stored in a cooler with ice for transport to the laboratory.

Samples were submitted under documented chain-of-custody control to McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California (DHS ELAP Certification No. 1644) and analyzed for TPH-g, TPH-d, and TPH-motor oil by EPA Method 8015 modified; for BTEX by EPA Method 8021B; and for MtBE, DIPE, EtBE, tAME, tBA, methanol, ethanol, EDB, and DCA by EPA Method 8260B.

## **RESULTS**

### ***Groundwater Levels and Gradient***

The groundwater flow direction is calculated to be to the south-southwest, toward Elder Creek, with a gradient of 0.006 foot per foot. Historical groundwater elevation data are included in **Table 2**. Groundwater elevation contours are depicted on **Figure 4**. Graphs of groundwater elevation versus time for selected monitoring wells are presented on **Figure 5**.

## ***Groundwater Analytical Results***

TPH-d was detected in each monitoring well ranging from 33,000 µg/L in EX-1 to 100 µg/L in MW-10. Benzene was detected above the MCL in well MW-2 at 2.0 µg/L and well EX-2 at 1.5 µg/L. The constituent tBA was also detected in each monitoring well sample, except for MW-10, in concentrations as high as 5,700 µg/L in MW-5, however, this is below the ESL for tBA of 18,000 µg/L. Concentrations of petroleum hydrocarbons detected in groundwater samples collected during this groundwater monitoring event were within the range of historically detected concentrations. Groundwater analytical results for this event are presented in **Table 3** and previous groundwater monitoring events are summarized in **Table 4**. A copy of the laboratory analytical report is included in **Appendix B**.

## ***Geotracker Requirements***

All analytical data were submitted electronically to the California State Water Resources Control Board Geotracker database as required by State Assembly Bill 2886 (Water Code Section 13195-13198). Electronic data files were prepared and formatted by McCampbell and electronically submitted by Matriks. Well latitudes, longitudes (GEO\_XY files), and elevations (GEO\_Z files) were previously submitted to the database. Well status and usage reports (GEO\_WELL file) were also prepared and submitted for this groundwater monitoring event as was a complete electronic copy of this report (GEO\_REPORT file) in portable document file format.

## **CONCLUSIONS**

The groundwater flow direction calculated for this quarterly event is south-southwest with a gradient of 0.006. A petroleum hydrocarbon sheen is present on groundwater in EX-1 in the dispenser area. This well has historically contained a measurable thickness of petroleum hydrocarbons on groundwater, but its thickness appears to have been reduced by the removal of free-phase product, water, and soil during the Site remedial activities conducted in July 2008. The concentration of tBA appears to be decreasing or remaining about the same in the remainder of the wells. Before MW-3 was abandoned, groundwater samples collected from it contained some of the highest concentrations of benzene and MtBE detected in groundwater samples and constituent trends appeared to be increasing. Groundwater in this general vicinity is currently not monitored because MW-3 was removed during the July 2008 remedial action. We believe that the lateral and vertical extent of petroleum hydrocarbons in groundwater has been adequately characterized and no further lateral or vertical characterization is warranted.

## **RECOMMENDATIONS**

Matriks recommended the installation of a new groundwater monitoring well west of the tank pit to replace MW-3. The ACEHS agreed with this recommendation in a letter dated January 12, 2010.

A feasibility study recommending ozone sparging with hydrogen peroxide injection was submitted to ACEHS. The ACEHS' January 12, 2010 letter requested a Pilot Test Work Plan or Remedial Action Plan to implement the proposed ozone sparging and hydrogen peroxide injection remediation efforts. A workplan will be submitted to ACEHS for the well and system installation.

# FIGURES

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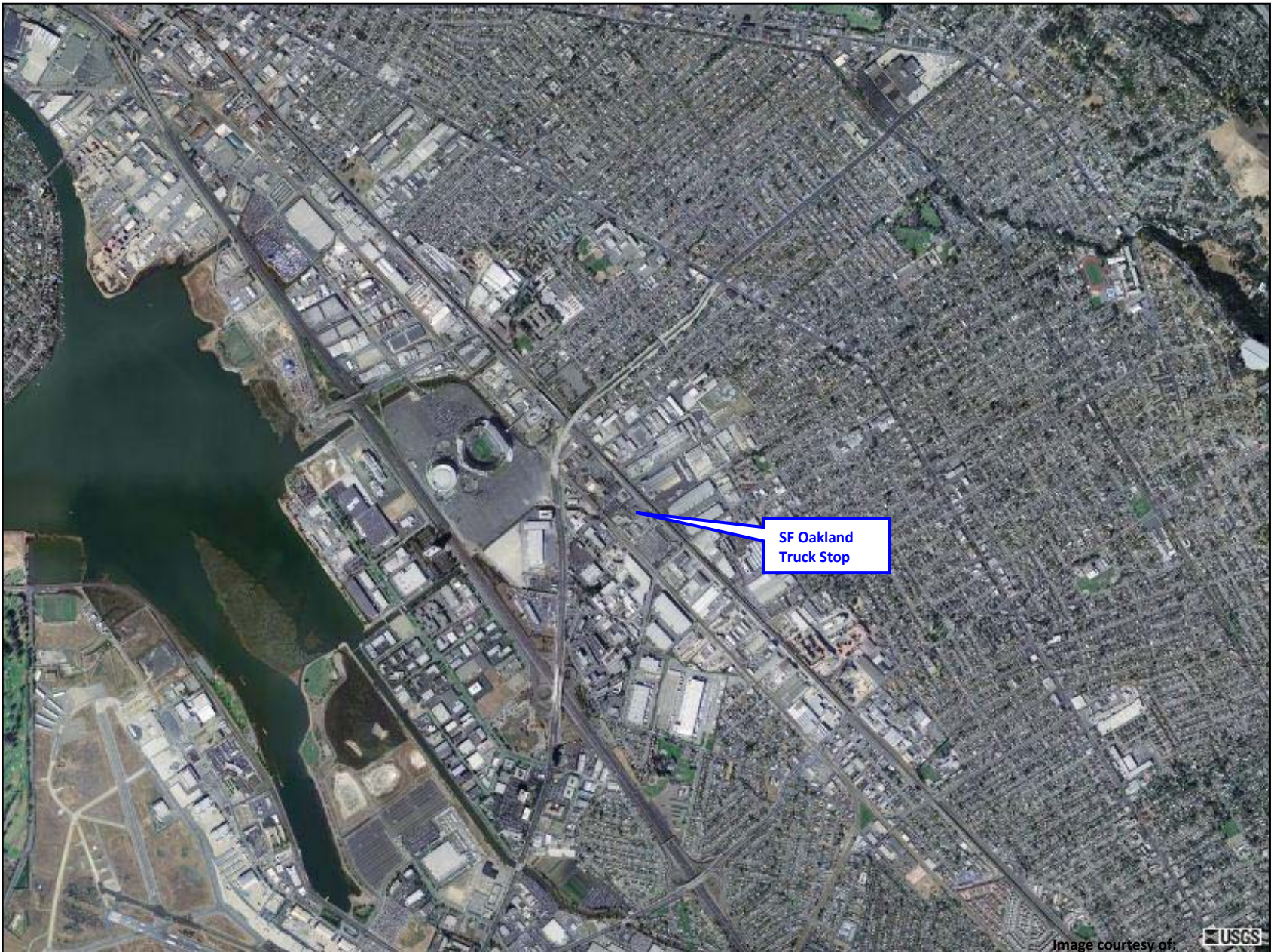


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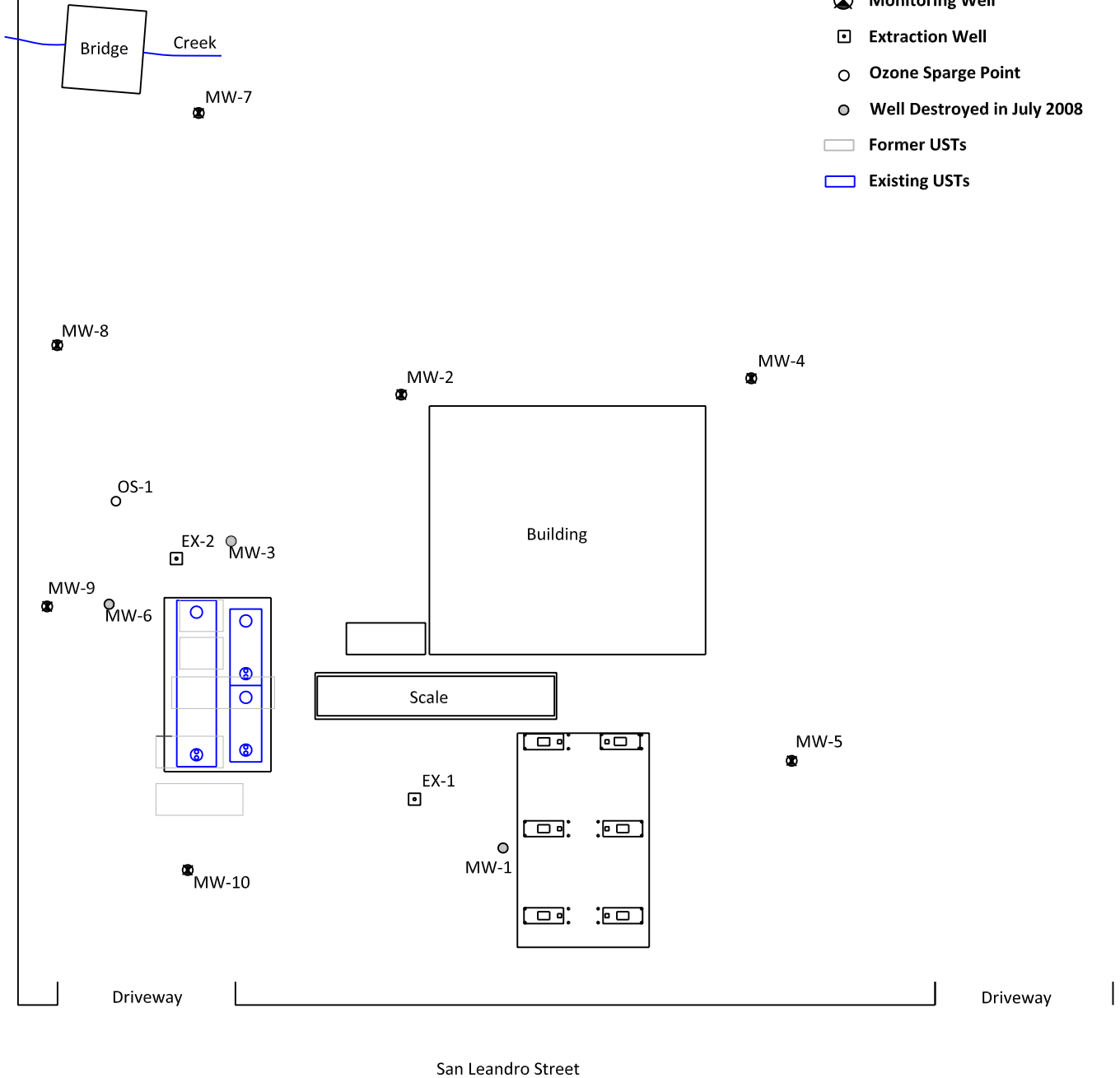
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Site Location Map  
SF Oakland Truck Stop  
8255 San Leandro Street, Oakland, CA

**Figure 1**

LEGEND

-  Monitoring Well
-  Extraction Well
-  Ozone Sparge Point
-  Well Destroyed in July 2008
-  Former USTs
-  Existing USTs



## Site Plan

**Oakland Truck Stop**  
**8255 San Leandro Street**  
**Oakland, California**



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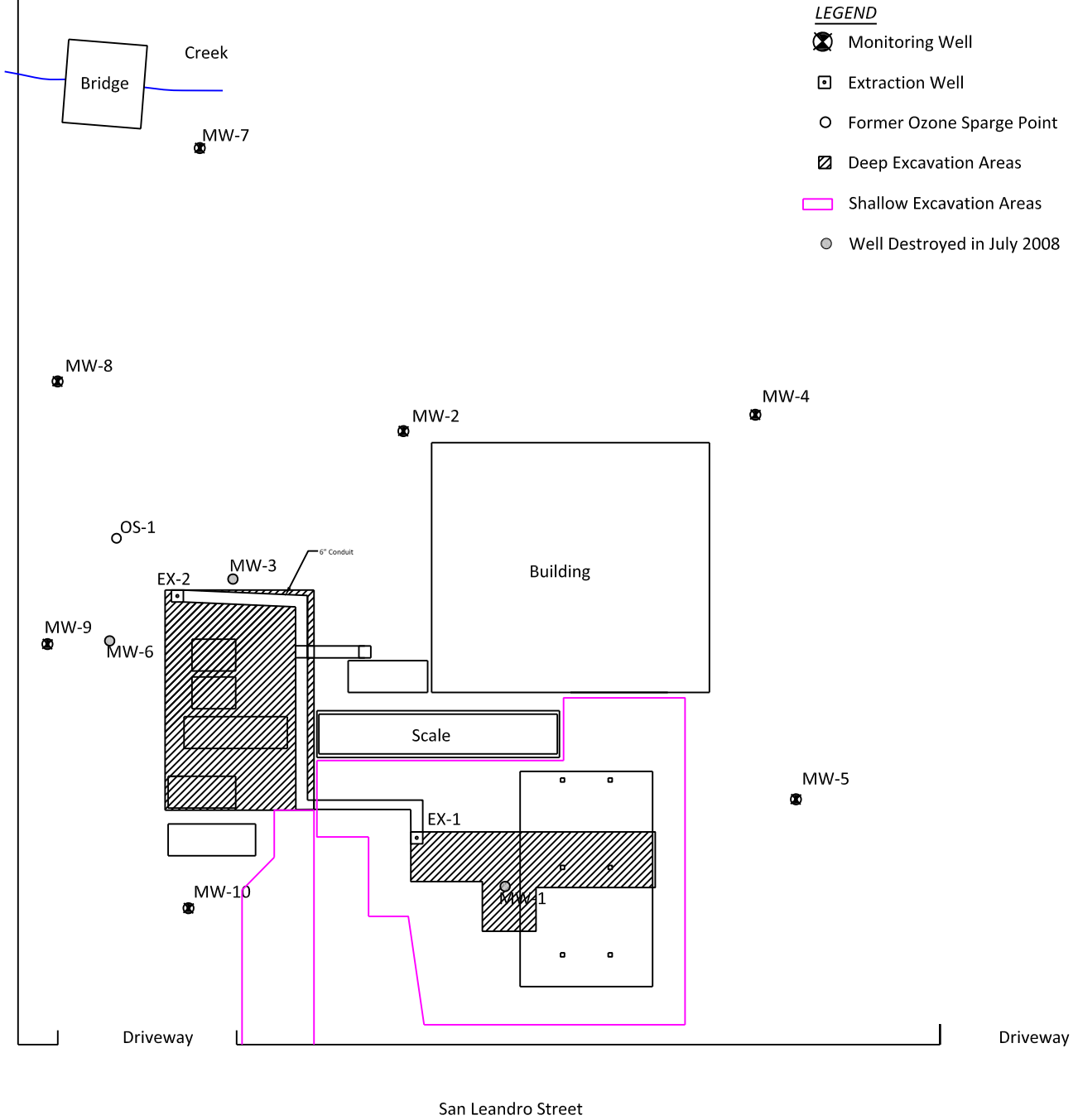
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Figure:

**2**



# Excavation Plan

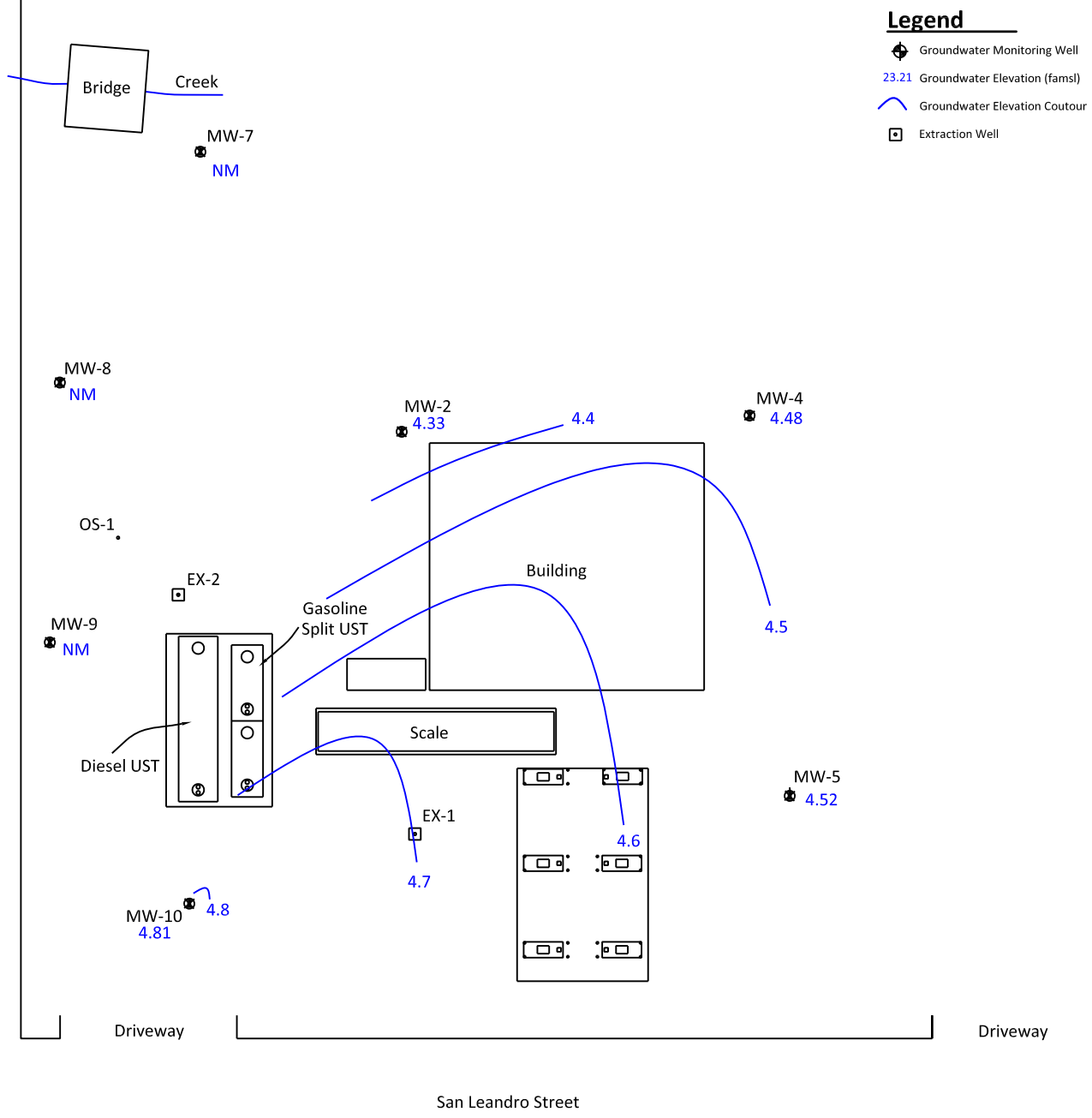
**Oakland Truck Stop**  
**8255 San Leandro Street**  
**Oakland, California**



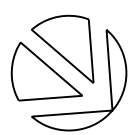
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Project#: 6020	Figure:
Date: 9/29/10	<b>3</b>
Scale: 1" = 40'	



# Site Groundwater Gradient September 29, 2010



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Oakland, California**



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Project #: 6020	Figure: <b>4</b>
Date: 9/29/10	
Scale: 1" = 40'	



# TABLES

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**Table 1**  
**Well Construction Details**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date Installed	Total Depth (feet)	Screened Interval (feet)	Water-Bearing Zone	Screen Slot Size (inches)	Filter Pack Interval (feet)	Bentonite Interval (feet)	Grout Interval (feet)	TOC Elevation (feet amsl)	Northing Coordinates (feet)	Easting Coordinates (feet)	Comments
MW-1	02/18/99	16.5	15.5-5.5	Clay	0.02	16.5-4.5	4.5-3	3--1	11.02	2099557.04	6072595.30	Well abandoned 7-08
EX-1	07/28/08	13.5	13.5 - 1	3/4 Crush rock	0.5	NA	NA	NA	8.21	2099537.05	6072605.07	Well placed in remediation french drain for extraction
MW-2	02/19/99	16.5	15.5.5	Clayey Fine Sand	0.02	16.5-4.5	4.5-3	3--1	10.63	2099465.48	6072531.46	
MW-3	02/18/99	16.5	15.5 - 5.5	Clay	0.02	16.5-4.5	4.5-3	3--1	10.33	2099455.51	6072586.53	Well abandoned 7-08
MW-4	02/19/99	16.5	15 - 5.5	Clay	0.02	16.5-4.5	4.5-3	3--1	10.42	2099528.03	6072468.70	
MW-5	12/01/99	15	15 - 5	Clay	0.02	15-4	4-3.5	3.5-1.5	10.13	2099600.85	6072533.52	
MW-6	12/01/99	15	15 - 5	Sandy Silt	0.02	15-4	4-3.5	3.5-1.5	10.71	2099444.41	6072615.62	Well abandoned 7-08
EX-2	07/28/08	17	17 - 1	pea gravel	0.5	NA	NA	NA	8.18	2099430.44	6072600.10	Well placed in UST pea gravel for extraction
MW-7	07/08/02	16.5	16.5 - 5	Silty Sand, Clayey Silt	0.02	16.5-4	4-3.5	3.5-1.5	9.08	2099379.77	6072513.11	
MW-8	07/08/02	15.5	15 - 5	Silty Sand, Clayey Silt	0.02	15.5-4	4-3.5	3.5-1.5	9.61	2099392.92	6072580.86	
MW-9	07/08/02	20	20 - 5	Silty Sand, Silty Clay	0.02	20-4	4-3.5	3.5-1.5	10.99	2099435.20	6072631.28	
MW-10	10/10/06	20	20 - 5	Silty Clay	0.02	20-4	4-3.5	3.5-1.5	11.40	2099506.21	6072656.48	

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-1	08/16/99	11.02	NM	NM	
	08/27/99		6.85	4.17	
	09/10/99		6.65	4.37	0.20
	09/24/99		6.87	4.15	-0.22
	10/08/99		6.81	4.21	0.06
	10/22/99		6.94	4.08	-0.13
	11/02/99		6.91	4.11	0.03
	11/19/99		6.93	4.09	-0.02
	12/06/99		5.93	5.09	1.00
	03/08/00		6.57	4.45	-0.64
	06/14/00		6.70	4.32	-0.13
	12/11/00		5.75	5.27	0.95
	03/06/01		7.60	3.42	-1.85
	06/06/01		6.80	4.22	0.80
	09/04/01		7.47	3.55	-0.67
	03/11/02		6.49	4.53	0.98
	06/06/02		6.49	4.53	0.00
	09/04/02		6.89	4.13	-0.40
	12/17/02		4.65	6.37	2.24
	03/07/03		6.55	4.47	-1.90
	06/05/03		9.77	1.25	-3.22
	09/19/03		6.56	4.46	3.21
	12/12/03		5.63	5.39	0.93
	03/15/04		7.11	3.91	-1.48
	06/22/04		NM	NM	
	09/21/04		NM	NM	
	12/30/04		NM	NM	
	04/06/05		5.70	5.32	
	09/29/05		5.40	5.62	0.30
	12/09/05		10.70	0.32	-5.30
	03/07/06		9.05	1.97	1.65
	06/20/06		4.61	6.41	4.44
	08/23/06		5.51	5.51	-0.90
10/12/06	NM	NM			
11/09/06	5.56	5.46			
03/20/07	9.69	1.33	-4.13		
05/17/07	9.55	1.47	0.14		
08/16/07	6.95	4.07	2.60		
12/05/07	5.50	5.52	1.45		
02/27/08	7.28	3.74	-1.78		
06/28/08	NM	NM			
09/27/08	Well Abandoned 7/3/08				
EX-1	09/27/08	8.21			
	12/30/08		No measurement due to free product		
	03/28/09		No measurement due to free product		
	09/12/09		6.45	1.76	
	03/30/10		2.76	5.45	3.69
	09/29/10		7.62	0.59	-4.86



**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-2	08/16/99	10.63	6.30	4.33	
	08/27/99		NM	NM	
	09/10/99		NM	NM	
	09/24/99		NM	NM	
	10/08/99		NM	NM	
	10/22/99		NM	NM	
	11/02/99		NM	NM	
	11/19/99		NM	NM	
	12/06/99		8.46	2.17	
	03/08/00		9.12	1.51	-0.66
	06/14/00		8.34	2.29	0.78
	12/11/00		5.94	4.69	2.40
	03/06/01		4.70	5.93	1.24
	06/06/01		6.03	4.60	-1.33
	09/04/01		6.34	4.29	-0.31
	03/11/02		4.89	5.74	1.45
	06/06/02		5.69	4.94	-0.80
	09/04/02		6.17	4.46	-0.48
	12/17/02	4.39	6.24	1.78	
	03/07/03	5.44	5.19	-1.05	
	06/05/03	5.59	5.04	-0.15	
	09/19/03	6.09	4.54	-0.50	
	12/12/03	5.13	5.50	0.96	
	03/15/04	5.71	4.92	-0.58	
	06/22/04	5.80	4.83	-0.09	
	09/21/04	6.64	3.99	-0.84	
	12/30/04	6.04	4.59	0.60	
	04/06/05	NM	NM		
	09/29/05	NM	NM		
	12/09/05	5.60	5.03		
	03/07/06	4.25	6.38	1.35	
	06/20/06	5.04	5.59	-0.79	
	08/23/06	5.70	4.93	-0.66	
	10/12/06	NM	NM		
	11/09/06	6.27	4.36		
	03/20/07	6.45	4.18	-0.18	
	05/17/07	6.74	3.89	-0.29	
	08/16/07	7.19	3.44	-0.45	
	12/05/07	5.64	4.99	1.55	
	02/27/08	4.64	5.99	1.00	
	06/28/08	5.68	4.95	-1.04	
	09/27/08	7.42	3.21	-1.74	
12/30/08	5.29	5.34	2.13		
03/28/09	4.94	5.69	0.35		
09/12/09	5.78	4.85	-0.84		
03/30/10	5.49	5.14	0.29		
09/29/10	6.30	4.33	-0.81		

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-3	08/16/99	10.32	5.85	4.47	
	08/27/99		NM	NM	
	09/10/99		NM	NM	
	09/24/99		NM	NM	
	10/08/99		NM	NM	
	10/22/99		NM	NM	
	11/02/99		NM	NM	
	11/19/99		NM	NM	
	12/06/99		5.7	4.62	
	03/08/00		5.32	5.00	0.38
	06/14/00		6.95	3.37	-1.63
	12/11/00		6.22	4.10	0.73
	03/06/01		4.83	5.49	1.39
	06/06/01		5.62	4.70	-0.79
	09/04/01		5.91	4.41	-0.29
	03/11/02		4.42	5.90	1.49
	06/06/02		5.19	5.13	-0.77
	09/04/02		5.72	4.60	-0.53
	12/17/02		3.96	6.36	1.76
	03/07/03		4.88	5.44	-0.92
	06/05/03		5.05	5.27	-0.17
	09/19/03		5.62	4.70	-0.57
	12/12/03		4.68	5.64	0.94
	03/15/04		4.52	5.80	0.16
	06/22/04		6.49	3.83	-1.97
	09/21/04		5.72	4.60	0.77
	12/30/04		4.72	5.60	1.00
	04/06/05		3.78	6.54	0.94
	09/29/05		5.85	4.47	-2.07
	12/09/05		5.01	5.31	0.84
	03/07/06		3.75	6.57	1.26
	06/20/06		4.81	5.51	-1.06
	08/23/06		5.22	5.10	-0.41
	10/12/06		NM	NM	
	11/09/06		5.36	4.96	
03/20/07	5.06	5.26	0.30		
05/17/07	6.35	3.97	-1.29		
08/16/07	6.46	3.86	-0.11		
12/05/07	4.82	5.50	1.64		
02/27/08	4.54	5.78	0.28		
06/28/08	6.41	3.91	-1.87		
09/27/08	Well Abandoned 7/3/08				

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-4	08/16/99	10.50	6.12	4.38	
	08/27/99		NM	NM	
	09/10/99		NM	NM	
	09/24/99		NM	NM	
	10/08/99		NM	NM	
	10/22/99		NM	NM	
	11/02/99		NM	NM	
	11/19/99		NM	NM	
	12/06/99		5.98	4.52	
	03/08/00		4.32	6.18	1.66
	06/14/00		5.58	4.92	-1.26
	12/11/00		5.70	4.80	-0.12
	03/06/01		4.46	6.04	1.24
	06/06/01		5.89	4.61	-1.43
	09/04/01		6.16	4.34	-0.27
	03/11/02		4.67	5.83	1.49
	06/06/02		5.50	5.00	-0.83
	09/04/02		5.97	4.53	-0.47
	12/17/02		4.22	6.28	1.75
	03/07/03		5.23	5.27	-1.01
	06/05/03	5.38	5.12	-0.15	
	09/19/03	5.91	4.59	-0.53	
	12/12/03	4.91	5.59	1.00	
	03/15/04	4.94	5.56	-0.03	
	06/22/04	5.68	4.82	-0.74	
	09/21/04	6.01	4.49	-0.33	
	12/30/04	4.55	5.95	1.46	
	04/06/05	4.09	6.41	0.46	
	09/29/05	5.56	4.94	-1.47	
	12/09/05	5.28	5.22	0.28	
	03/07/06	4.00	6.50	1.28	
	06/20/06	5.14	5.36	-1.14	
	08/23/06	5.51	4.99	-0.37	
	10/12/06	NM	NM		
	11/09/06	5.64	4.86		
	03/20/07	4.90	5.60	0.74	
	05/17/07	5.18	5.32	-0.28	
	08/16/07	5.81	4.69	-0.63	
	12/05/07	5.20	5.30	0.61	
	02/27/08	4.43	6.07	0.77	
	06/28/08	5.58	4.92	-1.15	
	09/27/08	5.72	4.70	-0.22	
12/30/08	4.87	5.55	0.85		
03/28/09	4.68	5.74	0.19		
09/12/09	5.58	4.84	-0.90		
03/30/10	5.01	5.41	0.57		
09/29/10	5.94	4.48	-1.23		
		10.42			

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-5	12/06/99	10.20	5.94	4.26	
	03/08/00		4.06	6.14	1.88
	06/14/00		5.25	4.95	-1.19
	12/11/00		5.45	4.75	-0.20
	03/06/01		4.12	6.08	1.33
	06/06/01		5.56	4.64	-1.44
	09/04/01		5.84	4.36	-0.28
	03/11/02		4.38	5.82	1.46
	06/06/02		5.16	5.04	-0.78
	09/04/02		5.62	4.58	-0.46
	12/17/02		4.12	6.08	1.50
	03/07/03		4.89	5.31	-0.77
	06/05/03		5.04	5.16	-0.15
	09/19/03		5.56	4.64	-0.52
	12/12/03		4.72	5.48	0.84
	03/15/04		4.61	5.59	0.11
	06/22/04		5.25	4.95	-0.64
	09/21/04		5.68	4.52	-0.43
	12/30/04		4.55	5.65	1.13
	04/06/05		3.98	6.22	0.57
	09/29/05		5.28	4.92	-1.30
	12/09/05		5.05	5.15	0.23
	03/07/06		3.96	6.24	1.09
	06/20/06		4.51	5.69	-0.55
	08/23/06		7.47	2.73	-2.96
	10/12/06		NM	NM	
	11/09/06		5.42	4.78	
	03/20/07		4.83	5.37	0.59
	05/17/07	5.29	4.91	-0.46	
	08/16/07	5.31	4.89	-0.02	
	12/05/07	4.90	5.30	0.41	
	02/27/08	4.17	6.03	0.73	
	06/28/08	5.24	4.96	-1.07	
	09/27/08	5.42	4.71	-0.25	
	12/30/08	4.60	5.53	0.82	
	03/28/09	4.41	5.72	0.19	
09/12/09	5.28	4.85	-0.87		
03/30/10	4.32	5.81	0.96		
09/29/10	5.61	4.52	-1.29		
		10.13			

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-6	12/06/99	10.71	5.8	4.91	
	03/08/00		4.1	6.61	1.7
	06/14/00		5.64	5.07	-1.54
	12/11/00		5.72	4.99	-0.08
	03/06/01		4.32	6.39	1.4
	06/06/01		5.81	4.9	-1.49
	09/04/01		6.12	4.59	-0.31
	03/11/02		4.49	6.22	1.63
	06/06/02		5.33	5.38	-0.84
	09/04/02		5.92	4.79	-0.59
	12/17/02		3.85	6.86	2.07
	03/07/03		4.96	5.75	-1.11
	06/05/03		5.18	5.53	-0.22
	09/19/03		5.81	4.9	-0.63
	12/12/03		4.73	5.98	1.08
	03/15/04		5.65	5.06	-0.92
	06/22/04		5.34	5.37	0.31
	09/21/04		5.89	4.82	-0.55
	12/30/04		4.35	6.36	1.54
	04/06/05		3.66	7.05	0.69
	09/29/05		6	4.71	-2.34
	12/09/05		5.17	5.54	0.83
	03/07/06		4.55	6.16	0.62
	06/20/06		4.96	5.75	-0.41
	08/23/06		5.42	5.29	-0.46
	10/12/06		NM	NM	
	11/09/06		5.57	5.14	
	03/20/07		4.59	6.12	0.98
	05/17/07		5.12	5.59	-0.53
	08/16/07		7.55	3.16	-2.43
12/05/07	5.3	5.41	2.25		
02/27/08	4.33	6.38	0.97		
06/28/08	5.54	5.17	-1.21		
09/27/08	Well Abandoned 7/3/08				
EX-2	09/27/08	8.18			
	12/30/08		2.63	5.55	2.63
	03/28/09		2.40	5.78	-0.23
	09/19/09		5.90	2.28	-3.50
	03/30/10		5.49	2.69	0.41
	09/29/10		4.50	3.68	0.99

**Table 2  
Groundwater Elevation Data  
8255 San Leandro Street  
Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ	
MW-7	09/04/02	9.17	4.67	4.50		
	12/17/02		3.11	6.06	1.56	
	03/07/03		3.89	5.28	-0.78	
	06/05/03		3.57	5.60	0.32	
	09/19/03		4.57	4.60	-1.00	
	12/12/03		3.48	5.69	1.09	
	03/15/04		NM	NM		
	06/22/04		4.52	4.65		
	09/21/04		4.56	4.61	-0.04	
	12/30/04		3.17	6.00	1.39	
	04/06/05		2.77	6.40	0.40	
	09/29/05		4.27	4.90	-1.50	
	12/09/05		4.86	4.31	-0.59	
	03/07/06		2.80	6.37	2.06	
	06/20/06		3.60	5.57	-0.80	
	08/23/06		4.89	4.28	-1.29	
	10/12/06		NM	NM		
	11/09/06		4.23	4.94		
	03/20/07		3.55	5.62	0.68	
	05/17/07		4.02	5.15	-0.47	
	08/16/07	4.35	4.82	-0.33		
	12/05/07	NM	NM			
	02/27/08	3.11	6.06			
	06/28/08	4.16	5.01	-1.05		
	09/27/08	4.41	4.67	-0.34		
	12/30/08	NM	NM			
	03/28/09	NM	NM			
	09/12/09	4.23	4.85			
	03/30/10	NM	NM			
	09/29/10	NM	NM			
			9.08			

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ	
MW-8	09/04/02	9.68	4.94	4.74		
	12/17/02		3.26	6.42	1.68	
	03/07/03		4.01	5.67	-0.75	
	06/05/03		4.28	5.4	-0.27	
	09/19/03		4.87	4.81	-0.59	
	12/12/03		3.77	5.91	1.1	
	03/15/04		3.53	6.15	0.24	
	06/22/04		4.52	5.16	-0.99	
	09/21/04		4.7	4.98	-0.18	
	12/30/04		4.23	5.45	0.47	
	04/06/05		3.5	6.18	0.73	
	09/29/05		4.62	5.06	-1.12	
	12/09/05		3.92	5.76	0.7	
	03/07/06		NM	NM		
	06/20/06		3.84	5.84		
	08/23/06		NM	NM		
	10/12/06		NM	NM		
	11/09/06		4.39	5.29		
	03/20/07		NM	NM		
	05/17/07		3.95	5.73		
	08/16/07	4.46	5.22	-0.51		
	12/05/07	4.3	5.38	0.16		
	02/27/08	NM	NM			
	06/28/08	NM	NM			
	09/27/08	NM	NM			
	12/30/08	NM	NM			
	03/28/09	NM	NM			
	09/12/09	NM	NM			
	03/30/10	NM	NM			
	09/29/10	NM	NM			
			9.61			

**Table 2**  
**Groundwater Elevation Data**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	Top of Casing Elevation (msl)	Depth to Water (feet)	Ground water Elevation	Δ
MW-9	09/04/02	11.07	6.26	4.81	
	12/17/02		4.23	6.84	2.03
	03/07/03		5.26	5.81	-1.03
	06/05/03		5.56	5.51	-0.30
	09/19/03		6.25	4.82	-0.69
	12/12/03		NM	NM	
	03/15/04		5.04	6.03	
	06/22/04		5.91	5.16	-0.87
	09/21/04		6.24	4.83	-0.33
	12/30/04		NM	NM	
	04/06/05		4.12	6.95	
	09/29/05		5.55	5.52	-1.43
	12/09/05		5.51	5.56	0.04
	03/07/06		NM	NM	
	06/20/06		5.39	5.68	
	08/23/06		4.78	6.29	0.61
	10/12/06		NM	NM	
	11/09/06	5.87	5.20		
	03/20/07	5.02	6.05	0.85	
	05/17/07	5.53	5.54	-0.51	
	08/16/07	NM	NM		
	12/05/07	NM	NM		
	02/27/08	NM	NM		
	06/28/08	5.90	5.17		
	09/27/08	NM	NM		
	12/30/08	NM	NM		
	03/28/09	NM	NM		
	09/12/09	5.91	5.08		
03/30/10	5.59	5.40	0.32		
09/29/10	NM	NM			
MW-10	10/12/06	11.56	6.02	5.54	
	11/09/06		6.24	5.32	-0.22
	03/20/07		5.21	6.35	1.03
	05/17/07		6.21	5.35	-1.00
	08/16/07		6.56	5.00	-0.35
	12/05/07		6.42	5.14	0.14
	06/28/08		6.27	5.29	0.15
	09/27/08	11.4	6.50	4.90	-0.39
	12/30/2008		5.64	5.76	0.86
	3/28/2009		5.46	5.94	0.18
	9/12/2009		6.32	5.08	-0.86
	3/30/2010		5.78	5.62	0.54
	9/29/2010		6.59	4.81	-0.81

All measurements are in feet. DTW = Depth to water below top of PVC casing.  
 TOC = Top of casing. ELEV = Elevation above mean sea level.  
 D = The change in water level (elevation this quarter minus elevation last quarter).  
 NM = not measured  
 Δ = Change in groundwater elevation from previous event



**Table 3**  
**Groundwater Analytical Results**  
**Third Quarter 2010**  
**September 29, 2010**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
EX-1	09/30/10	300 <sup>**^</sup>	33000 <sup>+</sup>	15,000	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<5.0	880
MW-2	09/29/10	1200 <sup>3^</sup>	440 <sup>†</sup>	1200 <sup>†</sup>	2.0	8.5	0.8	2.3	46	<1.2	<1.2	<1.2	400
MW-4	09/29/10	<50	130 <sup>†</sup>	510 <sup>†</sup>	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	3.9
MW-5	09/29/10	120 <sup>*</sup>	2600 <sup>+</sup>	1,100	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<50	5,700
EX-2	09/29/10	120 <sup>^</sup>	1400 <sup>2+</sup>	830	1.5	0.54	<0.5	1.4	56	<5.0	<5.0	<5.0	1,100
MW-7	09/29/10	Well Could Not Be Located											
MW-8	09/29/10	Well Could Not Be Located											
MW-9	09/29/10	Semi-Trailer Parked On Well											
MW-10	09/29/10	<50	100 <sup>†</sup>	350 <sup>†</sup>	<0.5	<0.5	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	<2.0
ESL		100	100	100	1.0	130	43	10	5	NE	NE	NE	18,000

**Notes:**

Concentrations are recorded in units of micrograms per liter (ug/L).

ESL Environmental Screening Level for Potable Groundwater

<sup>1</sup> Diesel range compounds are significant, no recognizable pattern

<sup>2</sup> Aged diesel is significant

<sup>3</sup> Gasoline range compounds are significant

<sup>+</sup> Unmodified or weakly modified diesel is significant

<sup>†</sup> Lighter than water immiscible sheen/product is present

<sup>^</sup> Weakly modified or unmodified gasoline is significant

<sup>\*</sup> Strongly aged gasoline or diesel range compounds are significant in the TPH-g chromatogram

<sup>†</sup> Oil range compounds are significant

NE ESL is not established for this compound

NA analyte not tested

TPH-g total petroleum hydrocarbons as gasoline

TPH-d total petroleum hydrocarbons as diesel

B benzene

T toluene

E ethylbenzene

X xylenes

MtBE methyl tert-butyl ether

DIPE di-isopropyl ether

EtBE ethyl tert-butyl ether

tAME tert-amyl methyl ether

tBA tert-butanol

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-1	08/16/99	Not Sampled Due to Free-Floating Hydrocarbon											
	12/06/99	Not Sampled Due to Free-Floating Hydrocarbons 0.12 feet											
	03/08/00	Not Sampled Due to Free-Floating Hydrocarbons 0.21 feet											
	06/14/00	Not Sampled Due to Free-Floating Hydrocarbons 0.72 feet											
	12/11/00	Not Sampled Due to Free-Floating Hydrocarbons 0.60 feet											
	03/06/01	Not Sampled Due to Free-Floating Hydrocarbons 0.40 feet											
	06/06/01	Not Sampled Due to Free-Floating Hydrocarbons 1.48 feet											
	09/04/02	Not Sampled Due to Free-Floating Hydrocarbons 0.20 feet											
	03/11/02	Not Sampled Due to Free-Floating Hydrocarbons											
	06/06/02	Not Sampled Due to Free-Floating Hydrocarbons 0.67 feet											
	09/04/02	Not Sampled Due to Free-Floating Hydrocarbons 0.54 feet											
	12/17/02	Not Sampled Due to Free-Floating Hydrocarbons											
	03/07/03	Not Sampled Due to Free-Floating Hydrocarbons 1.19 feet											
	06/05/03	Not Sampled Due to Free-Floating Hydrocarbons 4.63 feet											
	09/19/03	Not Sampled Due to Free-Floating Hydrocarbons 0.32 feet											
	12/12/03	Not Sampled Due to Free-Floating Hydrocarbons 0.41 feet											
	03/15/04	Not Sampled Due to Free-Floating Hydrocarbons 0.40 feet											
	06/22/04	Not Sampled Due to Free-Floating Hydrocarbons											
	09/21/04	Not Sampled Due to Free-Floating Hydrocarbons											
	12/30/04	Not Sampled Due to Free-Floating Hydrocarbons											
	04/06/05	Not Sampled Due to Free-Floating Hydrocarbons 1.40 feet											
	09/29/05	Not Sampled Due to Free-Floating Hydrocarbons 1.00 feet											
	12/09/05	Not Sampled Due to Free-Floating Hydrocarbons 6.13 feet											
	03/06/06	Not Sampled Due to Free-Floating Hydrocarbons 5.05 feet											
	06/20/06	Not Sampled Due to Free-Floating Hydrocarbons 0.40 feet											
	08/23/06	Not Sampled Due to Free-Floating Hydrocarbons 2.43 feet											
	11/16/06	Not Sampled Due to Free-Floating Hydrocarbons 0.93 feet											
	03/20/07	Not Sampled Due to Free-Floating Hydrocarbons 4.77 feet											
05/17/07	Not Sampled Due to Free-Floating Hydrocarbons 4.63 feet												
08/16/07	Not Sampled Due to Free-Floating Hydrocarbons 1.05 feet												
12/05/07	Not Sampled Due to Free-Floating Hydrocarbons 1.40 feet												
02/27/08	Not Sampled Due to Free-Floating Hydrocarbons 1.40 feet												
06/28/08	Not Sampled Due to Free-Floating Hydrocarbons 1.17 feet												
07/03/08	Well Abandoned												
EX-1	09/27/08	Not Sampled Due to Free-Floating Hydrocarbons 0.005 feet											
	12/30/08	Not Sampled Due to Free-Floating Hydrocarbons 0.005 feet											
	03/28/09	Not Sampled Due to Free-Floating Hydrocarbons 0.005 feet											
	09/12/09	550	73,000	24,000	<0.5	<0.5	<0.5	<0.5	35	<10	<10	<10	1,400
	03/30/10	170	520,000	290,000	<0.5	<0.5	<0.5	<0.5	16	<10	<10	<10	1,400
09/30/10	300	33,000	16,000	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<5.0	880	

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA	
MW-2	08/16/99	2,200	970	<500	3.8	<2.0	3	<4.0	<20	NA	NA	NA	NA	
	12/06/99	1,900	400	<500	16	<0.5	1.5	<0.5	5.2	NA	NA	NA	NA	
	03/08/00	1,600*	530	<500	9.7	<0.5	2.7	<0.5	27	NA	NA	NA	NA	
	06/14/00	2,000	75	<100	2.8	<0.5	3.4	<0.5	16	3.4	<0.5	<0.5	64	
	12/11/00	1,000	120	<100	2.6	<0.5	<0.5	<0.5	15	2.9	<0.5	<0.5	62	
	03/06/01	1,500	1400	NA	2.2	<0.5	1.7	<0.5	22	3.4	<0.5	<0.5	83	
	06/06/01	1,700	190	NA	2.6	<0.5	2.3	<0.5	26	3.2	<0.5	<0.5	83	
	09/04/02	2,000	450	NA	2.7	<0.5	2.1	<0.5	33	3.4	<0.5	<0.5	93	
	03/11/02	1,100	410	NA	1.0	<0.5	0.5	<0.5	26	2.5	<0.5	<0.5	69	
	06/06/02	900	430	NA	1.2	<0.5	<0.5	<0.5	23	2.8	<0.5	<0.5	73	
	09/04/02	910	510	NA	1.6	<0.5	<0.5	<0.5	45	2.5	<0.5	<0.5	67	
	12/17/02	190	220	NA	0.65	<0.5	<0.5	<0.5	34	1.5	<0.5	<0.5	46	
	03/07/03	380	300	NA	0.81	<0.5	<0.5	<0.5	50	1.9	<0.5	<0.5	73	
	06/05/03	2,200	2200	NA	1.7	<0.5	1.5	<0.5	180	4.9	<0.5	1.3	110	
	09/19/03	2,300	520	NA	2	<0.5	2.1	<0.5	180	3.7	<0.5	1.1	120	
	12/12/03	3,000	2200	NA	2.1	<0.5	1.7	<0.5	250	4.5	<0.5	1.6	130	
	03/15/04	Not Sampled - Truck Parked on Well							Not Sampled - Truck Parked on Well					
	06/22/04	1,600	420	NA	1.3	<0.5	1.0	<0.5	580	4.6	<0.5	3.9	340	
	09/21/04	2,500	<400	NA	1.2	<0.5	1.5	<0.5	730	5.9	<0.5	4.9	550	
	12/30/04	1,800	<300	NA	1.2	<1.0	<1.0	<1.0	540	5	<1.0	3.6	400	
	04/06/05	Not Sampled - Truck Parked on Well												
	09/29/05	Not Sampled - Truck Parked on Well												
	12/09/05	1,000	720	NA	1.0	<0.7	<0.7	<0.7	330	6.5	<0.7	2.3	1,800	
	03/06/06	1,000	<80	NA	1.2	<0.5	0.6	<0.5	290	5.4	<0.5	1.9	1,600	
	06/20/06	1,100	<80	NA	1.6	<0.5	1.0	<0.5	280	5.8	<0.5	1.5	<1,500	
	08/23/06	1,600	<200	NA	1.5	<0.9	<0.9	<0.9	290	5.5	<0.9	1.8	2,100	
	11/16/06	350	120	NA	0.56	<0.5	<0.5	<0.5	180	4.1	<0.5	0.96	1,300	
	03/20/07	460	110	NA	0.67	<0.5	<0.5	<0.5	160	4.3	<0.5	0.9	1,500	
	05/17/07	710	85	NA	<0.5	<0.5	<0.5	<0.5	160	4.4	<0.5	0.88	2,000	
	08/16/07	460	200	NA	<0.9	<0.9	<0.9	<0.9	150	6.1	<0.9	<0.9	2,700	
	12/05/07	1,500	<80	NA	<0.9	<0.9	<0.9	<0.9	66	3.8	<0.9	<0.9	2,000	
	02/27/08	810	<80	NA	0.54	<0.5	<0.5	<0.5	97	3.6	<0.5	0.52	1,400	
	06/28/08	1,100	280	NA	2.4	5.4	<0.5	<0.5	92	<10	<10	<10	1,600	
09/27/08	1,500	290	<250	<10	<10	<10	<10	61	<10	<10	<10	1,200		
12/30/08	1,500	960	2500	1.5	8.4	0.71	1.2	64	<5.0	<5.0	<5.0	1,400		
03/28/09	1,200	200	<250	<5.0	<5.0	<5.0	<5.0	67	<5.0	<5.0	<5.0	1,200		
09/12/09	770	230	<250	0.86	6.2	0.89	<0.5	53	<10	<10	<10	1,000		
03/30/10	780	210	<250	2.0	7.1	<0.5	2.4	72	<5.0	<5.0	<5.0	870		
09/29/10	1,200	440	1,200	<2.0	8.5	0.8	2.3	46	<1.2	<1.2	<1.2	400		

**Table 4  
Groundwater Analytical Results  
8255 San Leandro Street  
Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-3	08/16/99	56,000	10,000**	<500	17000	2600	2600	1200	6,100	NA	NA	NA	NA
	12/06/99	40,000	9,100*	<500	16000	140	1800	100	4,000	NA	NA	NA	NA
	03/08/00	22,000	4,500*	<500	11000	72	1100	130	3,400	NA	NA	NA	NA
	06/14/00	34,000	16,000	<100	13000	94	1300	160	4,800	31	<10	21	2,700
	12/11/00	24,000	14,000	<100	13000	88	750	120	4,300	<50	<50	<50	2,300
	03/06/01	34,000	12,000	NA	15000	100	1100	130	4,000	<50	<50	<50	2,100
	06/06/01	34,000	20,000	NA	14000	94	550	110	4,400	<50	<50	<50	2,300
	09/04/02	29,000	19,000	NA	13000	83	480	83	4,100	<50	<50	<50	3,400
	03/11/02	12,000	14,000	NA	2900	<20	110	<20	530	<20	<20	<20	330
	06/06/02	20,000	14,000	NA	10000	<50	200	51	2,400	<50	<50	<50	1,200
	09/04/02	24,000	17,000	NA	11000	<50	140	<50	3,200	<50	<50	<50	1,400
	12/17/02	4,900	17,000	NA	2000	<10	52	12	360	<10	<10	<10	220
	03/07/03	8,700	16,000	NA	1300	<10	43	11	770	<10	<10	<10	360
	06/05/03	27,000	14,000	NA	10000	53	220	53	5,000	<50	<50	<50	1,600
	09/19/03	120,000	13,000	NA	20000	170	710	250	6,100	<25	<25	<25	2,600
	12/12/03	29,000	27,000	NA	12000	74	240	79	5,600	17	<10	30	2,100
	03/15/04	28,000	21,000	NA	11000	72	220	64	8,200	<50	<50	<50	2,900
	06/22/04	29,000	7,600	NA	11000	71	220	54	8,400	<50	<50	<50	3,000
	09/21/04	33,000	<5,000	NA	12000	67	190	56	8,200	<25	<25	47	3,200
	12/30/04	30,000	13,000	NA	11000	62	170	49	8,900	<25	<25	49	3,200
	04/06/05	29,000	46,000	NA	10000	55	170	47	8,800	<25	<25	50	4,400
	09/29/05	28,000	1,800	NA	8700	74	190	53	7,300	<15	<15	53	4,500
	12/09/05	17,000	19,000	NA	5600	40	110	30	4,400	<15	<15	30	2,800
	03/06/06	11,000	16,000	NA	3600	26	96	22	2,400	<7.0	<7.0	19	1,400
	06/20/06	18,000	20,000	NA	6900	45	130	29	500	9.5	<7.0	34	2,900
	08/23/06	22,000	9,500	NA	6200	33	100	19	4,800	9.8	<9.0	34	3,100
	11/16/06	16,000	16,000	810	5800	26	87	18.0	2,700	10	<9.0	20	1,800
	03/20/07	23,000	12,000	410	7600	39	100	21.0	5,000	16	<8.0	35	3,200
	05/17/07	22,000	18,000	NA	10000	44	110	27.0	5,500	<15	<15	41	3,200
	08/16/07	16,000	63,000	NA	5900	33.0	66	25.0	4,600	<15	<15	39	3,400
12/05/07	21,000	6,400	890	8000	55	120	42	4,600	<15	<15	34	4,600	
02/27/08	35,000	40,000	870	8800	54	100	38	4,300	<15	<15	38	3,300	
06/28/08	31,000	7,500	NA	12000	61	140	42	7,300	<120	<120	<120	4,700	
07/03/08	Well Abandoned												

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-4	08/16/99	61***	1100*	<500	<0.5	<0.5	<0.5	<1.0	86	NA	NA	NA	NA
	12/06/99	130***	220*	<500	<1.0	<1.0	<1.0	<1.0	130	NA	NA	NA	NA
	03/08/00	<50	220*	<500	<0.5	<0.5	<0.5	<0.5	130	NA	NA	NA	NA
	06/14/00	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	100	<0.5	<0.5	<0.5	20
	12/11/00	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	16
	03/06/01	<50	670	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	9.9
	06/06/01	<50	790	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	20
	09/04/02	<50	950	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	26
	03/11/02	<50	250	NA	<0.5	<0.5	<0.5	<0.5	84	<0.5	<0.5	<0.5	21
	06/06/02	<50	710	NA	<0.5	<0.5	<0.5	<0.5	92	<0.5	<0.5	<0.5	21
	09/04/02	<50	1,100	NA	<0.5	<0.5	<0.5	<0.5	150	<0.5	<0.5	<0.5	18
	12/17/02	<50	470	NA	<0.5	<0.5	<0.5	<0.5	120	<0.5	<0.5	<0.5	<5.0
	03/07/03	<50	470	NA	<0.5	<0.5	<0.5	<0.5	120	<0.5	<0.5	0.52	18
	06/05/03	<50	2,000	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	0.5	23
	09/19/03	<50	830	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.8	23
	12/12/03	<50	1700	NA	<0.5	<0.5	<0.5	<0.5	120	<0.5	<0.5	<0.5	16
	03/15/04	<50	2,200	NA	<0.5	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	20
	09/21/04	<50	620	NA	<0.5	<0.5	<0.5	<0.5	93	<0.5	<0.5	<0.5	31
	04/06/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	59	<0.5	<0.5	<0.5	50
	09/29/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	17	<0.5	<0.5	<0.5	120
	12/09/05	<50	760	NA	<0.5	<0.5	<0.5	<0.5	9.5	<0.5	<0.5	<0.5	94
	03/06/06	<50	470	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	68
	06/20/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	120
	08/23/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	8.2	<0.5	<0.5	<0.5	140
	11/09/06	<50	200	410	<0.5	<0.5	<0.5	<0.5	7.7	<0.5	<0.5	<0.5	130
	03/20/07	<50	860	NA	<0.5	<0.5	<0.5	<0.5	6.3	<0.5	<0.5	<0.5	42
	05/17/07	<50	600	NA	<0.5	<0.5	<0.5	<0.5	5.6	<0.5	<0.5	<0.5	32
	08/16/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	<0.5	64
	12/05/07	1,300	2,600	5,600	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	30
	02/27/08	<50	270	400	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	9.3
06/28/08	<50	150	NA	<0.5	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	37	
09/27/08	<50	160	360	<0.5	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	33	
12/30/08	<50	200	320	<0.5	<0.5	<0.5	<0.5	6.3	<0.5	<0.5	<0.5	16	
03/28/09	<50	120	<250	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	4.5	
09/12/09	<50	130	330	<0.5	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	13	
03/30/10	<50	240	680	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	4.4	
09/29/10	<50	130	510	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	3.9	

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-5	12/06/99	450***	2000*	<500	<1.0	<1.0	<1.0	<1.0	21	NA	NA	NA	NA
	03/08/00	51***	530	<500	<0.5	<0.5	<0.5	<0.5	84	NA	NA	NA	NA
	06/14/00	380	1,400	<100	<0.5	<0.5	<0.5	<0.5	160	12	<0.5	<0.5	22
	12/11/00	540	590	<100	<0.5	<0.5	<0.5	<0.5	240	9.5	<0.5	<0.5	32
	03/06/01	510	2,900	NA	<0.5	<0.5	<0.5	<0.5	140	13	<0.5	<0.5	19
	06/06/01	280	2,700	NA	<0.5	<0.5	<0.5	<0.5	180	13	<0.5	<0.5	26
	09/04/02	630	2,600	NA	<0.5	<0.5	<0.5	<0.5	180	9.4	<0.5	<0.5	29
	03/11/02	97	3,500	NA	<0.5	<0.5	<0.5	<0.5	29	0.8	<0.5	<0.5	7
	06/06/02	61	3,500	NA	<0.5	<0.5	<0.5	<0.5	150	2.9	<0.5	<0.5	34
	09/04/02	92	6,100	NA	<0.5	<0.5	<0.5	<0.5	370	3.6	<0.5	<0.5	72
	12/17/02	110	2,100	NA	<0.5	<0.5	<0.5	<0.5	110	4.2	<0.5	<0.5	14
	03/07/03	71	1,600	NA	<0.5	<0.5	<0.5	<0.5	150	2.2	<0.5	<0.5	35
	06/05/03	95	3,300	NA	<0.5	<0.5	<0.5	<0.5	170	4.6	<0.5	<0.5	43
	09/19/03	100	1,400	NA	<0.5	<0.5	<0.5	<0.5	310	5.2	<0.5	0.68	86
	12/12/03	<50	7,600	NA	<0.5	<0.5	<0.5	<0.5	270	5.9	<0.5	0.7	91
	03/15/04	95	1,700	NA	<0.5	<0.5	<0.5	<0.5	290	6.7	<0.5	0.92	200
	09/21/04	78	990	NA	<0.5	<0.5	<0.5	<0.5	270	4.7	<0.5	0.96	880
	04/06/05	64	1,200	NA	<0.5	<0.5	<0.5	<0.5	120	4.8	<0.5	<0.5	780
	09/29/05	100	640	NA	<0.5	<0.5	<0.5	<0.5	77	3.7	<0.5	<0.5	4,000
	12/09/05	99	3,700	NA	<0.5	<0.5	<0.5	<0.5	66	6.8	<0.5	<0.5	3,000
	03/06/06	66	760	NA	<0.5	<0.5	<0.5	<0.5	42	2.9	<0.5	<0.5	1,600
	06/20/06	84	1,300	NA	<0.5	<0.5	<0.5	<0.5	42	3.6	<0.5	<0.5	3,000
	08/23/06	<200	410	NA	2.1	<2.0	<2.0	<2.0	37	2.8	<2.0	<2.0	4,800
	11/09/06	<200	700	<100	<2.0	<2.0	<2.0	<2.0	28	3.0	<2.0	<2.0	5,600
	03/20/07	<200	430	NA	<2.0	<2.0	<2.0	<2.0	22	3.0	<2.0	<2.0	3,800
	05/17/07	<200	500	NA	<2.0	<2.0	<2.0	<2.0	18	3.5	<2.0	<2.0	4,300
	08/16/07	<200	1,600	NA	<2.0	<2.0	<2.0	<2.0	13	3.0	<2.0	<2.0	6,400
	12/05/07	<200	1,400	120	<2.0	<2.0	<2.0	<2.0	8.2	2.6	<2.0	<2.0	4,700
	02/27/08	<90	1,300	190	<0.9	<0.9	<0.9	<0.9	6.0	1.8	<0.9	<0.9	2,800
	06/28/08	140	3,000	NA	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<50	4,300
09/27/08	120	2,800	1,000	<50	<50	<50	<50	<50	<50	<50	<50	6,600	
12/30/08	86	1,400	430	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<25	5,000	
03/28/09	120	1,700	500	<50	<50	<50	<50	<50	<50	<50	<50	6,400	
09/12/09	88	6,100	1,900	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<50	8,600	
03/30/10	90	640	300	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<50	10,000	
09/29/10	120	2,600	1,100	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<50	5,700	

**Table 4  
Groundwater Analytical Results  
8255 San Leandro Street  
Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-6	12/06/99	13,000	<50	<500	180	21	11	24	<100	NA	NA	NA	NA
	03/08/00	<10,000	4,600*	<500	230	26	18	39	12,000	NA	NA	NA	NA
	06/14/00	8,400	12,000	<100	180	12	10	22	15,000	<5.0	<5.0	70	3,300
	12/11/00	<5,000	10,000	<100	180	<50	<50	<50	14,000	<50	<50	74	2,900
	03/06/01	5,300	6,700	NA	220	<50	<50	<50	13,000	<50	<50	84	2,100
	06/06/01	5,000	2,300	NA	210	<25	<25	<25	14,000	<25	<25	84	4,200
	09/04/02	5,400	2,200	NA	190	12	<10	23	15,000	<10	<10	79	4,000
	03/11/02	4,600	11,000	NA	160	<25	<25	<25	15,000	<25	<25	39	5,100
	06/06/02	<5,000	14,000	NA	200	<50	<50	<50	17,000	<50	<50	77	8,700
	09/04/02	<5,000	50,000	NA	140	<50	<50	<50	21,000	<50	<50	52	7,500
	12/17/02	<5,000	9,100	NA	130	<50	<50	<50	16,000	<50	<50	64	6,300
	03/07/03	<5,000	12,000	NA	160	<50	<50	<50	20,000	<50	<50	53	7,500
	06/05/03	<5,000	23,000	NA	230	<50	<50	<50	19,000	<50	<50	86	7,100
	09/19/03	8,900	24,000	NA	220	<25	<25	<25	15,000	<25	<25	74	8,100
	12/12/03	8,000	24,000	NA	190	<25	<25	32	14,000	<25	<25	65	7,400
	03/15/04	4,400	26,000	NA	190	<25	<25	<25	9,900	<25	<25	61	6,700
	06/22/04	3,500	7,000	NA	150	<20	<20	<20	9,200	<20	<20	51	6,100
	09/21/04	4,600	12,000	NA	210	<20	<20	<20	8,800	<20	<20	55	7,000
	12/30/04	5,300	11,000	NA	190	<20	<20	<20	6,300	<20	<20	53	4,900
	04/06/05	5,100	680	NA	190	13	12	32	3,700	<5.0	<5.0	42	4,600
	09/29/05	4,900	2,800	NA	130	8.9	<5.0	13	2,100	<5.0	<5.0	23	3,200
	12/09/05	3,600	10,000	NA	110	7.1	<5.0	7.9	2,700	<5.0	<5.0	22	4,200
	03/06/06	3,900	900	NA	120	9.3	5	13	3,000	<0.5	<0.5	26	4,400
	06/20/06	3,600	1,500	NA	140	10	5	18	1,600	<3.0	<3.0	23	3,600
	08/23/06	4,300	<800	NA	140	11	5	13	2,000	<4.0	<4.0	22	4,000
	11/09/06	3,200	1,700	<100	110	6.9	<4.0	8.2	1,500	<4.0	<4.0	16	3,900
	03/20/07	2,100	920	NA	120	7.9	<4.0	7.1	2,000	<4.0	<4.0	20	4,000
05/17/07	3,800	600	NA	140	9.5	<4.0	15	1,700	<4.0	<4.0	21	3,200	
08/16/07	3,500	780	NA	160	9.3	<3.0	14	1,800	<3.0	<3.0	21	3,600	
12/05/07	4,500	<600	<100	100	7.8	<4.0	14	1,400	<4.0	<4.0	15	4,900	
02/27/08	3,100	<1,500	<100	82	6.1	<2.0	7.9	760	<2.0	<2.0	9.6	4,800	
06/28/08	4,700	17,000	NA	160	13	4	11	1,700	<50	<50	<50	6,200	
07/03/08	Well Abandoned												
EX-2	09/27/08	990	2,100	NA	130	<10	<10	<10	210	<10	<10	<10	1,400
	12/30/08	730	9,100	2,600	72	1.3	1.7	0.53	100	<5.0	<5.0	<5.0	930
	03/28/09	66	3,900	2,300	85	<5.0	<5.0	<5.0	98	<5.0	<5.0	<5.0	590
	09/12/09	470	4,400	1,800	7.3	0.96	<0.5	<0.5	140	<5.0	<5.0	<5.0	880
	03/30/10	170	1,800	840	0.79	<0.5	<0.5	<0.5	79	<5.0	<5.0	<5.0	1100
09/29/10	120	1,400	830	1.5	0.54	<0.5	1.4	56	<5.0	<5.0	<5.0	1,100	

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA	
MW-7	09/04/02	<50	130****	NA	<0.5	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<5.0	
	12/17/02	<50	220	NA	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<5.0	
	03/07/03	<50	140	NA	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<5.0	
	06/05/03	<50	200	NA	<0.5	<0.5	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<5.0	
	09/19/03	<50	320	NA	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	<5.0	
	12/12/03	<50	380	NA	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<5.0	
	03/15/04	Not Sampled - Truck Parked on Well												
	09/21/04	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<5.0	
	04/06/05	<50	120	NA	<0.5	<0.5	<0.5	<0.5	9.2	<0.5	<0.5	<0.5	<5.0	
	09/29/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	12	<0.5	<0.5	<0.5	<5.0	
	12/09/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	10	<0.5	<0.5	<0.5	<5.0	
	03/06/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.5	<5.0	
	06/20/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0	
	08/23/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	8.5	<0.5	<0.5	<0.5	<5.0	
	11/09/06	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	5.7	<0.5	<0.5	<0.5	<5.0	
	03/20/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	<5.0	
	05/17/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<5.0	
	08/16/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<5.0	
	12/05/07	Not Sampled - Truck Parked on Well												
	02/27/08	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	<5.0	
	06/28/08	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<2.0	
	09/27/08	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	0.92	<0.5	<0.5	<0.5	<2.0	
	12/30/08	Not Sampled - Truck Parked on Well												
	03/28/09	Not Sampled - Truck Parked on Well												
	09/12/09	<50	87	<250	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<2.0	
	03/30/10	Well Not Located												
	09/29/10	Well Not Located												



**Table 4  
Groundwater Analytical Results  
8255 San Leandro Street  
Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA	
MW-8	09/04/02	<50	170	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/17/02	<50	100	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	
	03/07/03	<50	62	NA	<0.5	<0.5	<0.5	<0.5	33	<0.5	<0.5	<0.5	<5.0	
	06/05/03	<50	270	NA	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	<5.0	
	09/19/03	<50	250	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0	
	12/12/03	<50	420	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0	
	03/15/04	<50	250	NA	<0.5	<0.5	<0.5	<0.5	6.4	<0.5	<0.5	<0.5	<5.0	
	09/21/04	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0	
	04/06/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	8	<0.5	<0.5	<0.5	<5.0	
	09/29/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	18	<0.5	<0.5	<0.5	<5.0	
	12/09/05	<50	86	NA	<0.5	<0.5	<0.5	<0.5	9.7	<0.5	<0.5	<0.5	<5.0	
	03/06/06	Not Sampled - Truck Parked on Well												
	06/20/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	6.6	<0.5	<0.5	<0.5	<5.0	
	08/23/06	Not Sampled - Truck Parked on Well												
	11/09/06	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	9.3	<0.5	<0.5	<0.5	<5.0	
	03/20/07	<50	250	NA	<0.5	<0.5	<0.5	<0.5	10	<0.5	<0.5	<0.5	<5.0	
	05/17/07	<50	350	NA	<0.5	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<5.0	
	08/16/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0	
	12/05/07	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5	<0.5	<5.0	
	02/27/08	Not Sampled - Truck Parked on Well												
	06/28/08	Not Sampled - Truck Parked on Well												
	09/27/08	Not Sampled - Truck Parked on Well												
	12/30/08	Not Sampled - Truck Parked on Well												
	03/28/09	Not Sampled - Truck Parked on Well												
	09/12/09	Not Sampled - Truck Parked on Well												
	03/30/10	Well Not Located												
	09/29/10	Well Not Located												

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-9	09/04/02	<2,500	<b>1,000</b>	NA	<25	<25	<25	<25	<b>12,000</b>	<25	<25	70	1700
	12/17/02	<2,000	<b>880</b>	NA	<20	<20	<20	<20	<b>4,500</b>	<20	<20	23	2300
	03/07/03	<500	<b>450</b>	NA	<5	<5	<5	<5	<b>1,700</b>	<5	<5	8.4	6600
	06/05/03	<500	<b>4,500</b>	NA	<5	<5	<5	<5	<b>120</b>	<5	<5	<5.0	17,000
	09/19/03	<1,000	<b>4,500</b>	NA	<10	<10	<10	<10	<b>38</b>	<10	<10	<10	15,000
	12/12/03	Not Sampled - Truck Parked on Well											
	03/15/04	<1,000	82	NA	<10	<10	<10	<10	<b>38</b>	<10	<10	<10	<b>18,000</b>
	09/21/04	<1,000	<b>2,600</b>	NA	<10	<10	<10	<10	<b>17</b>	<10	<10	<10	16,000
	12/30/04	Not Sampled - Truck Parked on Well											
	04/06/05	<700	<50	NA	<7	<7	<7	<7	<b>55</b>	<7	<7	<7	15,000
	09/29/05	<700	<50	NA	<7	<7	<7	<7	<b>34</b>	<7	<7	<7	1,300
	12/09/05	<400	<b>3,200</b>	NA	<b>46</b>	<4.0	<4.0	<4.0	<b>12</b>	<4.0	<4.0	<4.0	8,200
	03/06/06	Not Sampled - Truck Parked on Well											
	06/20/06	Not Sampled - Truck Parked on Well											
	08/23/06	<250	<50	NA	<b>9.6</b>	<2.5	<2.5	<2.5	<b>18</b>	<2.5	<2.5	<2.5	6,000
	11/09/06	<150	<50	NA	<b>13</b>	<1.5	<1.5	<1.5	3	<1.5	<1.5	<1.5	3,900
	03/20/07	<150	<50	NA	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	<0.5	2,900
	05/17/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<b>6</b>	<0.5	<0.5	<0.5	880
	08/16/07	Not Sampled - Truck Parked on Well											
	12/05/07	Not Sampled - Truck Parked on Well											
	02/27/08	Not Sampled - Truck Parked on Well											
	06/28/08	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<5.0	950
	09/27/08	Not Sampled - Truck Parked on Well											
	12/30/08	Not Sampled - Truck Parked on Well											
	03/28/09	Not Sampled - Truck Parked on Well											
	09/12/09	<50	<b>170</b>	<b>300</b>	<0.5	<0.5	<0.5	<0.5	<1.7	<1.7	<1.7	<1.7	330
03/30/10	<50	<b>110</b>	< <b>250</b>	<0.5	<0.5	<0.5	<0.5	2.2	<1.0	<1.0	<1.0	190	
09/29/10	Not Sampled - Truck Parked on Well												

**Table 4**  
**Groundwater Analytical Results**  
**8255 San Leandro Street**  
**Oakland, California**

Well ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	MtBE	DIPE	EtBE	tAME	tBA
MW-10	10/12/06	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	27
	11/09/06	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	82
	03/20/07	<50	<b>270</b>	NA	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	84
	05/17/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	55
	08/16/07	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	28
	12/05/07	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	0.94	<0.5	<0.5	<0.5	13
	02/27/08	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	7.3
	06/28/08	<50	63	NA	<0.5	<0.5	<0.5	<0.5	0.83	<0.5	<0.5	<0.5	8.7
	09/27/08	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	0.53	<0.5	<0.5	<0.5	3.3
	12/30/08	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5
	03/28/09	<b>4,700</b>	58	<250	<0.5	<0.5	<0.5	<0.5	0.63	<0.5	<0.5	<0.5	<2.0
	09/12/09	<50	<b>230</b>	<b>830</b>	<0.5	<0.5	<0.5	<0.5	0.65	<0.5	<0.5	<0.5	<2.0
	03/30/10	<50	<b>66</b>	<b>&lt;250</b>	<0.5	<0.5	<0.5	<0.5	0.87	<0.5	<0.5	<0.5	<2.0
09/29/10	<50	<b>100</b>	<b>350</b>	<0.5	<0.5	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	<2.0	
<b>ESL</b>		<b>100</b>	<b>100</b>	<b>100</b>	<b>1.0</b>	<b>130</b>	<b>43</b>	<b>10</b>	<b>5</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>18,000</b>

**Notes:**

Concentrations are recorded in units of micrograms per liter (ug/L).

ESL Environmental Screening Level for Potable Groundwater

\* Non-typical diesel pattern, hydrocarbons in early diesel range

\*\* Estimated concentration due to overlapping fuel patterns in sample

\*\*\* Non-typical gasoline pattern

\*\*\*\* Non-typical diesel pattern

NE ESL is not established for this compound

NA analyte not tested

TPH-g total petroleum hydrocarbons as gasoline

TPH-d total petroleum hydrocarbons as diesel

B benzene

T toluene

E ethylbenzene

X xylenes

MtBE methyl tert-butyl ether

DIPE di-isopropyl ether

EtBE ethyl tert-butyl ether

tAME tert-amyl methyl ether

tBA tert-butanol

**APPENDIX A**  
**MONITORING WELL PURGE LOGS**

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**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: MW-2	Well Diameter: 2" 3" 4" 6" 8" _____
Total Well Depth: 16.	Depth to Water: 6.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Sampling Method:
Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____
	Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other _____

$\underline{1.64} \text{ (Gals.)} \times \underline{3} = \underline{4.92} \text{ Gallons}$ <p style="font-size: small;">1 Case Volume                      Specified Volumes                      Calculated Volume</p>	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations
10:26	72.1	6.79	1652		1.5	Grayish
10:33	70.5	6.74	1664		3.5	"
10:37	70.3	6.73	1665		5	Dark Gray odor

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: 9-29-10	Sampling Time: _____
Sample ID: _____	Depth to Water: _____
Laboratory: McCampbell	
Analyzed for: TPH-g BTEX MtBE Oxys	Other: TPH-d & 2 pb scavengers
Duplicate ID: _____	Analyzed for: TPH-g BTEX MtBE Oxys Other: _____
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: <u>MW-4</u>	Well Diameter: <u>2"</u> 3" 4" 6" 8" _____
Total Well Depth: <u>16.5</u>	Depth to Water: <u>5.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Sampling Method:
Bailer <input checked="" type="radio"/> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____
	Bailer <input checked="" type="radio"/> Disposable Bailer Extraction Port Dedicated Tubing Other _____

$\underline{1.72} \text{ (Gals.)} \times \underline{3} = \underline{5.16} \text{ Gallons}$ <p>1 Case Volume                      Specified Volumes                      Calculated Volume</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations
11:19	73.6	7.43	838		2	Grey
11:25	73.8	7.47	872		4	Dark Grey. Slight Odor
11:30	74.1	7.48	912		5.5	" " " "

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: <u>9-29-10</u>	Sampling Time: _____
Sample ID: _____	Depth to Water: _____
Laboratory: <u>McCampbell</u>	
Analyzed for: <u>TPH-g BTEX MtBE Oxy</u>	Other: <u>TPH-d &amp; 2 pb scavengers</u>
Duplicate ID: _____	Analyzed for: TPH-g BTEX MtBE Oxy Other:
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: <u>WW-10</u>	Well Diameter: <u>2"</u> 3" 4" 6" 8" _____
Total Well Depth: <u>20</u>	Depth to Water: <u>6.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Sampling Method: <input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Other _____
--	--	---

$\underline{2.16} \text{ (Gals.)} \times \underline{3} = \underline{6.48} \text{ Gallons}$ <p style="font-size: small; margin: 0;"> <span style="margin-right: 100px;">1 Case Volume</span> <span style="margin-right: 100px;">Specified Volumes</span> <span>Calculated Volume</span> </p>	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations
12:03	74.7	7.37	612		2	Dark Grey
12:09	72.9	7.41	691		4.5	light Grey
12:13	72.1	7.40	696		6.5	Grey

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: <u>9-29-10</u>	Sampling Time: _____
Sample ID: _____	Laboratory: <u>McCampbell</u>
Analyzed for: <u>TPH-g BTEX MtBE Oxys</u>	Other: <u>TPH-d &amp; 2pb scavengers</u>
Duplicate ID: _____	Analyzed for: TPH-g BTEX MtBE Oxys Other:
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: <u>MW-5</u>	Well Diameter: <u>(2")</u> 3" 4" 6" 8" _____
Total Well Depth: <u>15</u>	Depth to Water: <u>5.61</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Sampling Method:	Bailer
Bailer	Waterra	<u>Disposable Bailer</u>
<u>Disposable Bailer</u>	Peristaltic	Extraction Port
Positive Air Displacement	Extraction Pump	Dedicated Tubing
Electric Submersible	Other _____	Other _____

$\frac{1.52}{1 \text{ Case Volume}} \text{ (Gals.)} \times \frac{3}{\text{Specified Volumes}} = \frac{4.5}{\text{Calculated Volume}} \text{ Gallons}$	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations
12:42	<u>76.5</u>	<u>7.02</u>	<u>1959</u>		<u>1.5</u>	<u>clear slight odor</u>
12:48	<u>74.3</u>	<u>7.03</u>	<u>1974</u>		<u>3</u>	<u>" " "</u>
12:52	<u>72.7</u>	<u>6.89</u>	<u>1961</u>		<u>4.5</u>	<u>" " "</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated:
Sampling Date: <u>9-29-10</u>	Sampling Time: _____
Sample ID: _____	Depth to Water: _____
Laboratory: <u>McCampbell</u>	
Analyzed for: <u>TPH-g BTEX MtBE Oxy</u>	Other: <u>TPH-d &amp; 2 pb scavengers</u>
Duplicate ID: _____	Analyzed for: TPH-g BTEX MtBE Oxy Other:
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV



**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: <u>EX-2</u>	Well Diameter: 2" 3" 4" <u>6"</u> 8" _____
Total Well Depth: <u>13.5</u>	Depth to Water: <u>4.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Sampling Method:
<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____
	<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Other _____

$\frac{13.2}{1} \text{ (Gals.)} \times \frac{3}{\text{Specified Volumes}} = 39.69 \text{ Gallons}$ <p style="font-size: small; margin: 0;">1 Case Volume                      Specified Volumes                      Calculated Volume</p>	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations
1:31	77.5	7.35	770		13	clear odor
1:48	77.2	7.37	1555		26	cloudy odor
2:08	77.5	7.34	1551		39	clear odor

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated:
Sampling Date: <u>9-29-10</u> Sampling Time:	Depth to Water:
Sample ID:	Laboratory: <u>McCampbell</u>
Analyzed for: <u>TPH-g BTEX MtBE Oxys</u> Other: <u>TPH-d &amp; 2 pb scavengers</u>	
Duplicate ID:	Analyzed for: TPH-g BTEX MtBE Oxys Other:
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

**MATRIKS CORPORATION MONITORING DATA SHEET**

Project #: 6020	Station #: OTS 8255 San Leandro St., Oakland
Sampler: C. Truesdale	Date: 9/29/10
Weather: Clear/Warm	Ambient Air Temperature:
Well ID: <u>EX-1</u>	Well Diameter: 2" 3" 4" <u>6"</u> 8" _____
Total Well Depth: <u>13.5</u>	Depth to Water: <u>7.62</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced To:	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Sampling Method:
Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____
	Bailer Disposable Bailer Extraction Port Dedicated Tubing Other _____

<u>12.78</u> (Gals.) X <u>3</u> = <u>38.3</u> Gallons 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gallons Removed	Observations

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date:	Sampling Time:                  Depth to Water:
Sample ID:	Laboratory:
Analyzed for: TPH-g BTEX MtBE Oxys Other:	
Duplicate ID:                  Analyzed for: TPH-g BTEX MtBE Oxys Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L                  Post-purge: _____ mg/L
ORP (if req'd):	Pre-purge: _____ mV                  Post-purge: _____ mV

**APPENDIX B**

**LABORATORY ANALYTICAL REPORTS FOR**

**GROUNDWATER SAMPLES**

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**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
		Date Received: 10/04/10
	Client Contact: Tom Henderson	Date Reported: 10/11/10
	Client P.O.:	Date Completed: 10/11/10

**WorkOrder: 1010061**

October 11, 2010

Dear Tom:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#6020 OTS; OTS,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



**McCAMPBELL ANALYTICAL, INC.**  
 1534 WILLOW PASS ROAD  
 PITTSBURG, CA 94565-1701  
 Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
 Telephone: (877) 252-9262 Fax: (925) 252-9269

1010061

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Tom Henderson Bill To: Matriks/HCE  
 Company: Matriks/HCE  
321 Court Street  
Woodland, CA 95695 E-Mail: C.truesdale@matrikscorp.com  
 Tele: (530) 406-1760 Fax: (530) 406-1071  
 Project #: 6020 OTS Project Name: OTS  
 Project Location: 8255 San Leandro St., Oakland, CA  
 Sampler Signature: C. Truesdale

**Analysis Request**

**Other**

**Comments**

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCS)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 594.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAh)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	7 Oxy's & 2 ph scavengers	**Indicate here if these samples are potentially dangerous to handle:				
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other																						
MW-2		9/29/10		4	1A 3V	X					X	X	X	X																						
MW-4		9/29/10		4																																
MW-5		9/29/10		4																																
MW-10		9/29/10		4																																
EX-1		9/29/10		4																																
EX-2		9/29/10		4																																

+6020 OTS  
 ↓  
 +  
 +  
 +  
 +  
 +

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>C. Truesdale</u>	Date: <u>10/1/10</u>	Time: <u>10:30A</u>	Received By: <u>[Signature]</u>	ICE/# <u>3.2</u>	COMMENTS: GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/>  VOAS O&G METALS OTHER PRESERVATION pH<2
Relinquished By: <u>[Signature]</u>	Date: <u>10/4/10</u>	Time: <u>10:20</u>	Received By: <u>[Signature]</u>		
Relinquished By: <u>[Signature]</u>	Date: <u>10/4/10</u>	Time: <u>12P</u>	Received By: <u>[Signature]</u>		

# McC Campbell Analytical, Inc.

1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010061

ClientCode: MCW

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
 Tom Henderson  
 Matriks Corporation  
 321 Court Street  
 Woodland, CA 95695  
 (530) 406-1760    FAX (530) 406-1771

**Email:**    thenderson@matrikscorp.com  
**cc:**  
**PO:**  
**ProjectNo:** #6020 OTS; OTS

**Bill to:**  
 Robert Neely  
 Matriks Corporation  
 321 Court Street  
 Woodland, CA 95695

**Requested TAT:**    **5 days**  
  
**Date Received:** 10/04/2010  
**Date Printed:** 10/04/2010

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1010061-001	6020 OTS MW-2	Water	9/29/2010	<input type="checkbox"/>	C	D	A	A	B							
1010061-002	6020 OTS MW-4	Water	9/29/2010	<input type="checkbox"/>	C	D	A		B							
1010061-003	6020 OTS MW-5	Water	9/29/2010	<input type="checkbox"/>	C	D	A		B							
1010061-004	6020 OTS MW-10	Water	9/29/2010	<input type="checkbox"/>	C	D	A		B							
1010061-005	6020 OTS EX-1	Water	9/30/2010	<input type="checkbox"/>	C	D	A		B							
1010061-006	6020 OTS EX-2	Water	9/29/2010	<input type="checkbox"/>	C	D	A		B							

**Test Legend:**

1	5520B_SG_W	2	9-OXYS_W	3	G-MBTX_W	4	PREF REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **Matriks Corporation**

Date and Time Received: **10/4/2010 12:18:00 PM**

Project Name: **#6020 OTS; OTS**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1010061** Matrix Water

Carrier: EnviroTech (RC)

#### Chain of Custody (COC) Information

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes  No
  - Container/Temp Blank temperature Cooler Temp: 3.2°C NA
  - Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
  - Sample labels checked for correct preservation? Yes  No
  - Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA
  - Samples Received on Ice? Yes  No
- (Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



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"When Quality Counts"

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Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
	Client Contact: Tom Henderson	Date Received: 10/04/10
	Client P.O.:	Date Analyzed: 10/06/10
		Date Extracted: 10/05/10

### Petroleum Oil & Grease with Silica Gel Clean-Up\*

Extraction method SM5520B/F

Analytical methods SM5520B/F

Work Order: 1010061

Lab ID	Client ID	Matrix	POG	DF	% SS	Comments
1010061-001C	6020 OTS MW-2	W	8.9	1	N/A	
1010061-002C	6020 OTS MW-4	W	ND	1	N/A	
1010061-003C	6020 OTS MW-5	W	ND	1	N/A	
1010061-004C	6020 OTS MW-10	W	ND	1	N/A	
1010061-005C	6020 OTS EX-1	W	16	1	N/A	b6
1010061-006C	6020 OTS EX-2	W	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

\* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).  
%SS = Percent Recovery of Surrogate Standard  
# surrogate diluted out of range or not applicable to this sample.

b6) lighter than water immiscible sheen/product is present





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Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
		Date Received: 10/04/10
	Client Contact: Tom Henderson	Date Extracted: 10/06/10-10/07/10
	Client P.O.:	Date Analyzed: 10/06/10-10/07/10

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1010061

Lab ID	1010061-001D	1010061-002D	1010061-003D	1010061-004D	Reporting Limit for DF =1	
Client ID	6020 OTS MW-2	6020 OTS MW-4	6020 OTS MW-5	6020 OTS MW-10		
Matrix	W	W	W	W		
DF	2.5	1	100	1		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<1.2	ND	ND<50	ND	NA	0.5
t-Butyl alcohol (TBA)	400	3.9	5700	ND	NA	2.0
1,2-Dibromoethane (EDB)	ND<1.2	ND	ND<50	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.2	ND	ND<50	ND	NA	0.5
Diisopropyl ether (DIPE)	ND<1.2	ND	ND<50	ND	NA	0.5
Ethanol	ND<120	ND	ND<5000	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND<1.2	ND	ND<50	ND	NA	0.5
Methanol	ND<1200	ND	ND<50,000	ND	NA	500
Methyl-t-butyl ether (MTBE)	46	2.0	ND<50	0.55	NA	0.5

### Surrogate Recoveries (%)

%SS1:	89	90	90	91	
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### Comments

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present



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Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
		Date Received: 10/04/10
	Client Contact: Tom Henderson	Date Extracted: 10/06/10-10/07/10
	Client P.O.:	Date Analyzed: 10/06/10-10/07/10

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1010061

Lab ID	1010061-005D	1010061-006D			Reporting Limit for DF =1	
Client ID	6020 OTS EX-1	6020 OTS EX-2				
Matrix	W	W				
DF	10	10				

Compound	Concentration				ug/kg	µg/L
	tert-Amyl methyl ether (TAME)	ND<5.0	ND<5.0			NA
t-Butyl alcohol (TBA)	880	1100			NA	2.0
1,2-Dibromoethane (EDB)	ND<5.0	ND<5.0			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	ND<5.0			NA	0.5
Diisopropyl ether (DIPE)	ND<5.0	ND<5.0			NA	0.5
Ethanol	ND<500	ND<500			NA	50
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND<5.0			NA	0.5
Methanol	ND<5000	ND<5000			NA	500
Methyl-t-butyl ether (MTBE)	ND<5.0	56			NA	0.5

### Surrogate Recoveries (%)

%SS1:	89	91			
Comments	b6				

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present



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Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
		Date Received: 10/04/10
	Client Contact: Tom Henderson	Date Extracted: 10/06/10-10/08/10
	Client P.O.:	Date Analyzed: 10/06/10-10/08/10

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010061

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	6020 OTS MW-2	W	1200	ND<70	2.0	8.5	0.80	2.3	1	99	d1
002A	6020 OTS MW-4	W	ND	ND	ND	ND	ND	ND	1	97	
003A	6020 OTS MW-5	W	120	5.2	ND	ND	ND	ND	1	97	d7
004A	6020 OTS MW-10	W	ND	ND	ND	ND	ND	ND	1	100	
005A	6020 OTS EX-1	W	300	ND	ND	ND	ND	ND	1	90	d7,b6
006A	6020 OTS EX-2	W	120	57	1.5	0.54	ND	1.4	1	102	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present  
d1) weakly modified or unmodified gasoline is significant  
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



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Matriks Corporation  321 Court Street  Woodland, CA 95695	Client Project ID: #6020 OTS; OTS	Date Sampled: 09/29/10-09/30/10
		Date Received: 10/04/10
	Client Contact: Tom Henderson	Date Extracted: 10/04/10
	Client P.O.:	Date Analyzed: 10/05/10-10/11/10

### Total Extractable Petroleum Hydrocarbons\*

Extraction method: SW3510C

Analytical methods: SW8015B

Work Order: 1010061

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1010061-001B	6020 OTS MW-2	W	440	1200	1	114	e7,e2,e4
1010061-002B	6020 OTS MW-4	W	130	510	1	111	e7,e2
1010061-003B	6020 OTS MW-5	W	2600	1100	1	113	e1
1010061-004B	6020 OTS MW-10	W	110	350	1	117	e7,e2
1010061-005B	6020 OTS EX-1	W	33,000	15,000	20	98	e1,b6
1010061-006B	6020 OTS EX-2	W	1400	830	1	112	e3/e1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

\* water samples are reported in ug/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard  
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present  
e2) diesel range compounds are significant; no recognizable pattern  
e3) aged diesel is significant; and/or e1) unmodified or weakly modified diesel is significant  
e4) gasoline range compounds are significant.  
e7) oil range compounds are significant

*R* ANALYST: [Signature]



**QC SUMMARY REPORT FOR SM5520B/F**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53417

WorkOrder 1010061

EPA Method SM5520B/F		Extraction SM5520B/F							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
POG	N/A	20.83	N/A	N/A	N/A	95.7	93.8	2.06	N/A	N/A	70 - 130	25

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 53417 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010061-001C	09/29/10	10/05/10	10/06/10 5:05 PM	1010061-002C	09/29/10	10/05/10	10/06/10 5:10 PM
1010061-003C	09/29/10	10/05/10	10/06/10 5:15 PM	1010061-004C	09/29/10	10/05/10	10/06/10 5:20 PM
1010061-005C	09/30/10	10/05/10	10/06/10 5:25 PM	1010061-006C	09/29/10	10/05/10	10/06/10 5:30 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount\ Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53502

WorkOrder 1010061

Analyte	Extraction SW5030B			Spiked Sample ID: 1010062-002C								
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
tert-Amyl methyl ether (TAME)	ND	10	81.6	79.1	3.08	79.7	82	2.77	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	92.5	91.1	1.53	85.5	86.2	0.879	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	101	98.2	3.28	95.3	98.3	3.14	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	106	101	4.37	102	105	2.85	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	110	107	2.44	109	112	2.56	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	104	100	3.44	102	105	2.36	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	111	108	3.21	105	109	4.02	70 - 130	30	70 - 130	30
%SS1:	89	25	93	93	0	91	94	2.82	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 53502 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010061-001D	09/29/10	10/06/10	10/06/10 10:40 PM	1010061-002D	09/29/10	10/06/10	10/06/10 11:23 PM
1010061-003D	09/29/10	10/07/10	10/07/10 4:12 PM	1010061-004D	09/29/10	10/07/10	10/07/10 12:50 AM
1010061-005D	09/30/10	10/06/10	10/06/10 6:40 AM	1010061-006D	09/29/10	10/07/10	10/07/10 1:34 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53504

WorkOrder 1010061

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1010062-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>f</sup>	ND	60	109	108	0.687	106	106	0	70 - 130	20	70 - 130	20
MTBE	ND	10	109	108	0.763	99.2	101	2.22	70 - 130	20	70 - 130	20
Benzene	ND	10	95.9	94.7	1.25	94.7	92.3	2.55	70 - 130	20	70 - 130	20
Toluene	ND	10	96.4	94.6	1.92	94.3	92.6	1.77	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	94.9	93.1	1.95	93	91.8	1.30	70 - 130	20	70 - 130	20
Xylenes	ND	30	97.7	95.3	2.51	95.8	94.1	1.71	70 - 130	20	70 - 130	20
%SS:	98	10	97	97	0	97	96	1.38	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 53504 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010061-001A	09/29/10	10/08/10	10/08/10 4:46 AM	1010061-002A	09/29/10	10/06/10	10/06/10 2:26 PM
1010061-003A	09/29/10	10/08/10	10/08/10 5:17 AM	1010061-004A	09/29/10	10/06/10	10/06/10 2:59 PM
1010061-005A	09/30/10	10/07/10	10/07/10 6:17 AM	1010061-006A	09/29/10	10/07/10	10/07/10 7:16 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53471

WorkOrder 1010061

Analyte	EPA Method SW8015B		Extraction SW3510C						Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	114	99.7	13.4	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	101	86	16.6	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 53471 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010061-001B	09/29/10	10/04/10	10/05/10 8:00 PM	1010061-002B	09/29/10	10/04/10	10/05/10 2:57 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.





### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53505

WorkOrder 1010061

EPA Method SW8015B		Extraction SW3510C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	112	113	0.799	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	102	102	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 53505 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010061-003B	09/29/10	10/04/10	10/05/10 4:13 PM	1010061-004B	09/29/10	10/04/10	10/06/10 3:13 PM
1010061-005B	09/30/10	10/04/10	10/11/10 3:26 PM	1010061-006B	09/29/10	10/04/10	10/05/10 5:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.