



Roya C. Kambin
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Marketing Business Unit

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Management Company**
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December 29, 2012

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health at 8:45 am, Jan 07, 2013

**Re: Chevron Facility No. 351639 (Former Unocal Service Station No. 6129)
3420 35th Avenue, Oakland, California
ACEH Fuel Leak Case No. RO0000058
RWQCB Case No. 01-1590
GeoTracker Global ID T0600101465.**

I have reviewed the attached report dated December 19 2012.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Roya Kambin
Project Manager

Attachment: *Second Quarter 2012 Semi-Annual Groundwater Monitoring Report* by AECOM
Environment, Inc.

December 20, 2012

Mr. Keith Nowell
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda CA 94502

**Subject: Second Semi-Annual 2012 Groundwater Monitoring Report
Chevron Facility No. 351639 (Former Unocal Service Station No. 6129)
3420 35th Avenue, Oakland, California
Fuel Leak Case RO0000058**

Dear Mr. Nowell,

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), AECOM Environment, Inc. (AECOM) has been authorized by CEMC to prepare the second semi-annual 2012 groundwater monitoring report for the site located at 3420 35th Avenue in Oakland, California (Site) (**Figure 1**). The locations of former and current site features are illustrated on **Figure 2**. Semi-annual groundwater monitoring is intended to evaluate the distribution of petroleum hydrocarbon constituents in groundwater beneath the site. Groundwater sampling was performed by TRC Solutions (TRC) of Irvine, California. This report summarizes sample results collected from the Site during the second semi-annual event of 2012.

Site Background and History

In 1989, two 10,000-gallon gasoline underground storage tanks (USTs) and one 550-gallon waste oil UST were removed from the site. Low concentrations of petroleum hydrocarbons were present in soil samples below the former gasoline USTs, used-oil UST, and product piping. Four soil samples were taken under the USTs, one sample under the waste oil UST, and five samples under the product piping. The soil samples under the USTs contained total petroleum hydrocarbons (TPH) as gasoline (TPHg) at concentrations ranging from 1.8 to 10 parts per million (ppm). One of the piping samples had soil concentrations of TPHg at 3.5 feet below ground surface (bgs) of 690 ppm. This area was over excavated to 7.5 feet bgs and soil samples were found to be non-detect for TPHg. The waste oil UST samples had low detections of TPH as diesel (TPHd) and total oil and grease (TOG).

There are currently two 12,000 gallon gasoline USTs in use and two dispenser islands. There is also one waste oil UST and three hydraulic lifts associated with the service bay.

In 1989, three monitoring wells (MW-1 through MW-3) were installed at the site to approximately 44 feet bgs. TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) were only detected in MW-3 at 5 feet bgs. In 1990, four soil borings (EB-1 through EB-4) were advanced in the vicinity of MW-3 to define hydrocarbon impacts to soil. In April 1991, approximately 230 cubic yards of soil were excavated based on analytical data from the soil borings between the dispenser islands and MW-3 and around MW-3. Monitoring well MW-3 was not destroyed.

In November 2003, four soil borings were advanced to approximate depths of 31.5 to 36.5 feet bgs. Methyl tertiary butyl ether (MTBE) was detected at concentrations of 0.37 to 0.41 ppm at sample depths of 26 to 31 feet bgs. Groundwater was encountered at approximately 35 feet bgs.

In September 2006, six cone penetrometer testing (CPT) borings were completed, and no soil or groundwater samples were collected. In November 2006, five soil borings were advanced, four adjacent to the CPT borings. In December 2006, four soil borings were advanced. The reports concluded that soil and groundwater near the dispenser islands has been impacted and is migrating downgradient. The groundwater analytical data collected from the soil borings are consistent with historic site groundwater concentrations.

Groundwater Monitoring Field Data

Groundwater elevation data was recorded in three monitoring wells, MW-1 through MW-3, on October 23, 2012 (**Table 1**). Copies of the groundwater gauging logs are included in **Attachment A**. The groundwater flow direction was calculated to flow to the east/southeast with an average hydraulic gradient of approximately 0.009 feet per foot (**Figure 2**). The depth to groundwater ranged from 29.39 to 30.51 feet below the top of well casings (159.19 to 160.66 feet above mean sea level). A summary of historical groundwater elevations is presented in **Attachment B**.

Groundwater Sampling and Analytical Results

Groundwater samples were collected from monitoring wells MW-1 through MW-3 on October 23, 2012. Groundwater stabilization parameters including; temperature, pH, and electrical conductivity readings were collected during purging. Copies of the groundwater purge/sample logs are included in **Attachment A**. Laboratory analyses were performed by BC Laboratories, Inc. (BC Labs) of Bakersfield, California. The BC Labs analytical report dated October 30, 2012 is included as **Attachment C**. Samples were analyzed for the following analytes:

- BTEX by USEPA method 8260B;
- Total Purgeable Petroleum Hydrocarbons (TPPH)/TPHg by GC/MS;
- Fuel oxygenates including MTBE, tertiary-amyl methyl ether (TAME), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), and ethyl tertiary-butyl ether (ETBE), ethanol, ethylene dibromide (EDB), and 1,2-Dichloroethane (1,2-DCA or ethylene dichloride [EDC]) by USEPA method 8260B.

The monitoring event is coordinated with the adjacent former Exxon station number 70234, during the second quarter 2012 the former Exxon was sampled on October 31, 2012. Results from the former Exxon sampling are included as **Attachment D**. **Figure 2** includes the groundwater data for both sites.

Analytical results for this semi-annual groundwater monitoring event are consistent with previous reporting periods (**Table 1**). The following presents a brief summary of the analytical sample results:

- ETBE, TAME, EDB, 1, 2-DCA, and ethanol, were not detected in any of the samples analyzed above the laboratory reporting limits.
- MTBE was detected in all three wells, MW-1 (140 µg/L), MW-2 (1,300 µg/L), and MW-3 (500 µg/L), all are within historic concentration ranges.
- TBA was detected in all three wells, MW-1 (47 µg/L), MW-2 (410 µg/L), and MW-3 (160 µg/L).
- DIPE was detected in MW-2 at 14 µg/L.
- TPPH was detected in all three wells, MW-1 (130 µg/L), MW-2 (750 µg/L), and MW-3 (480 µg/L). The laboratory report narrative, Attachment C, states that the TPPH detections in MW-1 and MW-3 do not exhibit a "gasoline" pattern and that TPPH is entirely due to MTBE.

A summary of historical groundwater analytical data is presented in **Attachment B**.

Approximately 24 gallons of purgewater were generated during sampling activities. Purged water was removed from the site by TRC and transported to their facility in Concord, CA for future disposal.

Conclusions and Recommendations

The sample results of the groundwater monitoring activities at the site indicate the following:

- No BTEX was detected.
- TPHg, MTBE, and detected oxygenate concentrations fluctuate seasonally but are generally stable or declining.
- Concentrations of TPHg and MTBE are generally higher at the upgradient former Exxon Service Station.

AECOM recommends continued semi-annual monitoring coordinated with the former Exxon Service Station 70234 and sampling to verify decreasing concentrations.

Future Activities

Groundwater Monitoring

AECOM will coordinate monitoring and sampling activities as per the established schedule. AECOM will submit semiannual groundwater monitoring and sampling reports.

Additional Activity

CRA submitted the *Conceptual Site Model and Well Installation Work Plan* on May 3, 2012. AECOM will initiate the Work Plan submitted by CRA following ACEH concurrence/approval.


Remarks/Signatures

The interpretations in this report represent our professional opinions and are based, in part, on the information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact either of the undersigned at (916) 361-6400.

Sincerely,


James Harms
Project Manager


Brett Lehman, P.G.
Geologist



cc: Roya Kambin, CEMC (electronic)
Son Nguyen & Le Pham, Nguyen/Pham Family Trust, Property Owner

Tables

Table 1 Groundwater Monitoring and Sampling Data

Figures

Figure 1	Site Location Map
Figure 2	Groundwater Concentration Map

Attachments

Attachment A	October 23, 2012 Groundwater Data Field Sheets
Attachment B	Historic Groundwater Data
Attachment C	BC Laboratories Analytical Report
Attachment D	Former Exxon Station Groundwater Data

Tables

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON #351639
FORMER UNOCAL #6129
3420 35TH AVE., OAKLAND, CALIFORNIA

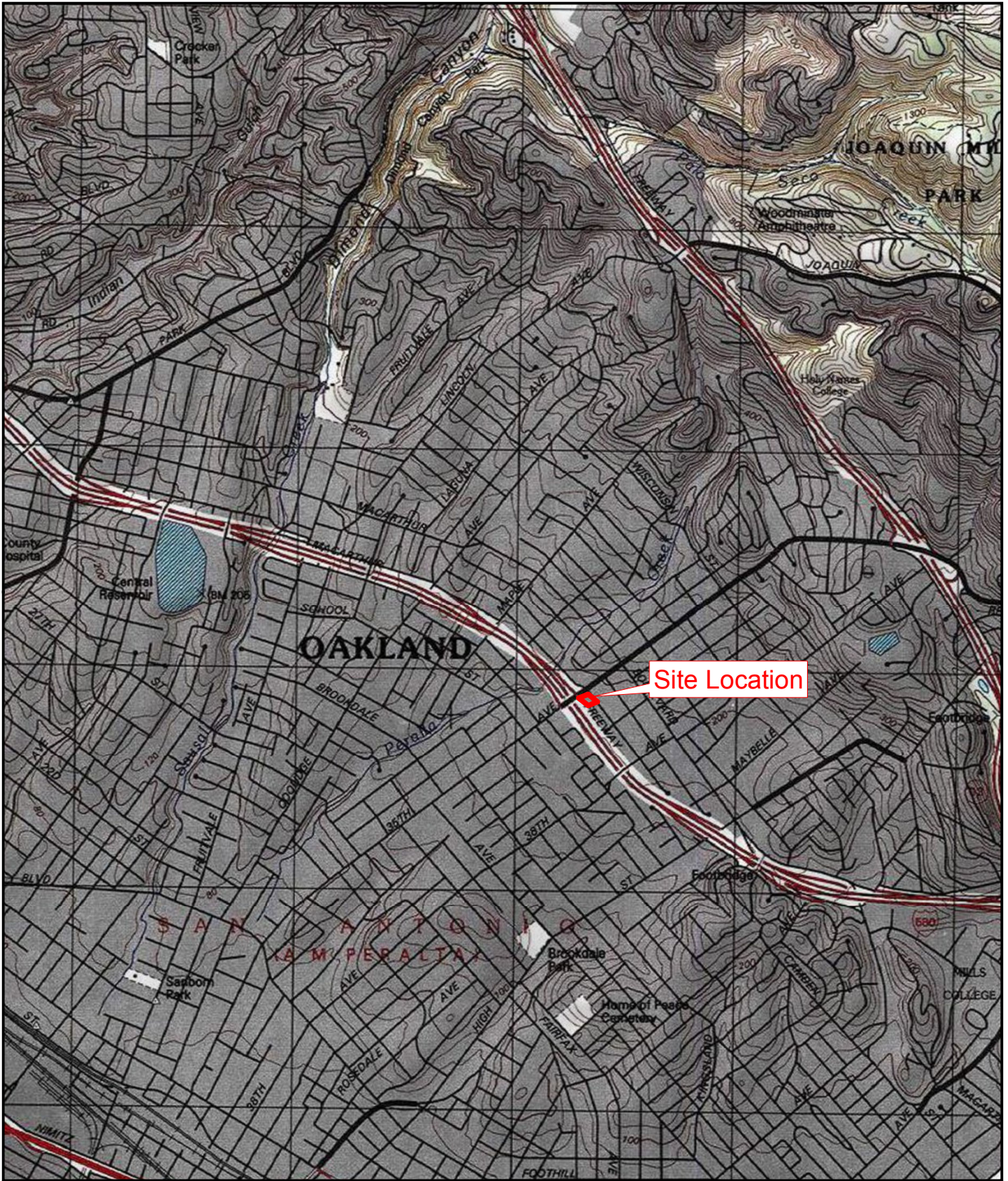
Location	Date	TOC	DTW	GWE	HYDROCARBONS					PRIMARY VOCS								
					TPH - Gasoline	B	T	E	X	MTBE by SW8260	TBA	ETBE	DIPE	TAME	EDB	1,2-DCA	Ethanol	
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-1	05/27/2011	190.79	26.87	163.92	110	<0.50	<0.50	<0.50	<1.0	220	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	11/23/2011	190.79	29.14	161.65	110	<0.50	<0.50	<0.50	<1.0	150	41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	05/24/2012	190.79	26.58	164.21	140	<0.50	<0.50	<0.50	<1.0	190	66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	10/23/2012	190.79	30.51	160.28	130	<0.50	<0.50	<0.50	<1.0	140	47	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	05/27/2011	190.80	26.44	164.36	560	<0.50	<0.50	<0.50	<1.0	1,100	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	11/23/2011	190.80	28.53	162.27	830	<0.50	<0.50	<0.50	<1.0	1,500	400	<0.50	9.0	<0.50	<0.50	<0.50	<0.50	<250
	05/24/2012	190.80	25.97	164.83	1,000	<0.50	<0.50	<0.50	<1.0	1,200	430	<0.50	8.8	<0.50	<0.50	<0.50	<0.50	<250
	10/23/2012	190.80	30.14	160.66	750	<0.50	<0.50	<0.50	<1.0	1,300	410	<0.50	14	<0.50	<0.50	<0.50	<0.50	<250
MW-3	05/27/2011	188.58	26.53	162.05	340	<0.50	<0.50	<0.50	<1.0	890	73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	11/23/2011	188.58	28.11	160.47	520	<0.50	<0.50	<0.50	<1.0	730	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	05/24/2012	188.58	25.95	162.63	660	<0.50	<0.50	<0.50	<1.0	1,100	300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	10/23/2012	188.58	29.39	159.19	480	<0.50	<0.50	<0.50	<1.0	500	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250

Abbreviations and Notes:

- TOC = Top of Casing
- DTW = Depth to Water
- GWE = Groundwater elevation
- (ft-amsl) = Feet Above Mean sea level
- ft = Feet
- µg/L = Micrograms per Liter
- TPH - Total Petroleum Hydrocarbons
- VOCS = Volatile Organic Compounds
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylene
- MTBE = Methyl tert butyl ether
- TBA = Tert-Butyl alcohol
- DIPE = Diisopropyl ether
- ETBE = Tert-Butyl ethyl ether
- TAME = Tert-Amyl methyl ether
- EDB = 1,2-Dibromoethane (Ethylene dibromide)
- 1,2-DCA = 1,2-Dichloroethane
- = Not available / not applicable
- <x = Not detected above laboratory method detection limit

Figures

Path: P:\010231-Chevron\76Products_transfer_sites\351639_6129_Oakland\7.0 Deliverables\7.2 CADD\GIS\Fig1_vicinity_map\351639.mxd



Map Source: ESRI Data Resource Center 2011.



AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827
916.361.6400

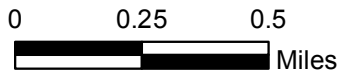
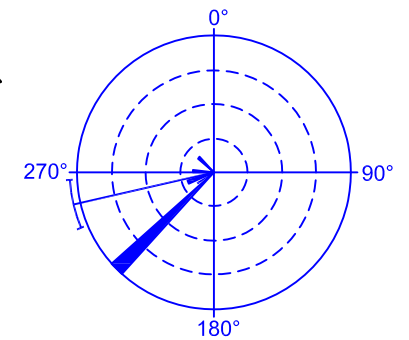


Figure 1: Site Location Map

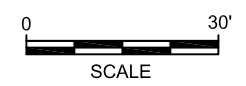
CHEVRON #351639
FORMER UNOCAL STATION NO.6129
3420 35th AVENUE
OAKLAND, CALIFORNIA



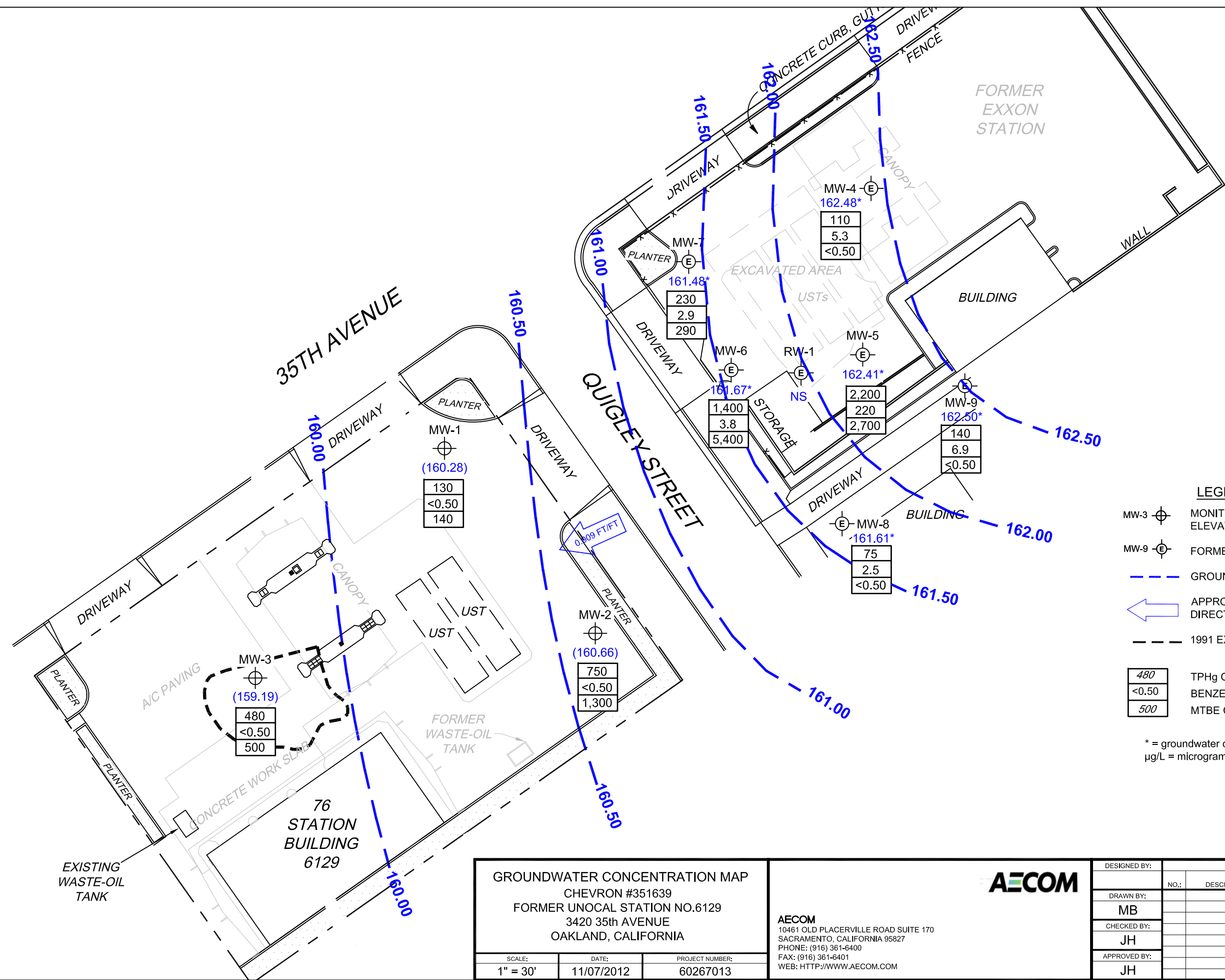
APPROXIMATE GROUNDWATER FLOW DIRECTION 1Q1990 TO 2Q2012

- LEGEND**
- MW-3 MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
 - MW-9 FORMER EXXON MONITORING WELL
 - GROUNDWATER ELEVATION CONTOUR
 - APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
 - 1991 EXCAVATION BOUNDARY
- | | |
|-------|------------------------------|
| 480 | TPHg CONCENTRATION (µg/L) |
| <0.50 | BENZENE CONCENTRATION (µg/L) |
| 500 | MTBE CONCENTRATION (µg/L) |

* = groundwater data collected on October 31, 2012.
µg/L = micrograms per liter



Base map created by Delta Consultants, Inc.



GROUNDWATER CONCENTRATION MAP
 CHEVRON #351639
 FORMER UNOCAL STATION NO.6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

SCALE: 1" = 30'	DATE: 11/07/2012	PROJECT NUMBER: 60267013
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AECOM
 10461 OLD PLACERVILLE ROAD SUITE 170
 SACRAMENTO, CALIFORNIA 95827
 PHONE: (916) 361-6400
 FAX: (916) 361-6401
 WEB: HTTP://WWW.AECOM.COM

DESIGNED BY:	REVISIONS			
	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY: MB				
CHECKED BY: JH				
APPROVED BY: JH				

FIGURE NUMBER:
2

P:\101231-Chevron\76Products_transfer_sfiles\351639_6129_Oakland\7.0 Deliverables\7.2 CADD\25A12\Figure2_conc.dwg Dec 04, 2012 - 12:41pm harmsj

Attachment A

October 23, 2012 Groundwater Data Field Sheets



123 Technology Drive
Irvine, California 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCSolutions.com

DATE: November 1, 2012

TO: Jim Harms, AECOM

SITE: Unocal Site 6129
Facility 351639
3420 35th Avenue, Oakland, CA

RE: Transmittal of Groundwater Monitoring Data

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on October 23, 2012. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Anju Farfan", written in a cursive style.

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater gauging and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements (Gauging)

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps. The pump intake is initially set at about 5 feet below the level of water in the casing, and is lowered as needed to compensate for falling water level. Pump depths are recorded in Field Notes.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously, using a flow cell, until they become stable in general accordance with EPA guidelines.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

GENERAL FIELD PROCEDURES

Samples are collected by lowering a new, disposable polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

Sample containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liquinox and water and rinsing twice. The final rinse is in deionized water.

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: JOE

Job #/Task #: 189791,0035,1639

Date: 10/23/12

Site # 6129

Project Manager A. Fafan

Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	X	0607	43.50	30.51	—	—	0727	2"
MW-3	X	0612	39.45	29.39	—	—	0828	2"
MW-2	X	0614	43.63	30.14	—	—	0819	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL



GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 6129

Project No.: 189791.0035.1639

Date: 10/23/12

Well No. MW-1

Purge Method: SUB

Depth to Water (feet): 30.51

Depth to Product (feet): _____

Total Depth (feet): 43.50

LPH & Water Recovered (gallons): _____

Water Column (feet): 12.99

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 33.10

1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.04	216	
0708		36' 41'	3	789.0	17.3	7.26	1.07	226	
		↓	6	805.3	18.1	6.97	0.93	228	
	0713	43'	9	837.5	18.2	6.84	1.19	229	
Static at Time Sampled			Total Gallons Purged			Sample Time			
33.10			9			0727			
Comments: <u>Dry at 9 gals.</u>									

Well No. MW-3

Purge Method: SUB

Depth to Water (feet): 29.39

Depth to Product (feet): _____

Total Depth (feet): 39.45

LPH & Water Recovered (gallons): _____

Water Column (feet): 10.06

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 31.40

1 Well Volume (gallons): 2

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.20	201	
0741		34'	2	473.9	17.0	7.43	1.39	205	
		39'	4	581.6	17.4	7.15	0.83	207	
	0746	↓	6	550.7	17.8	7.05	1.15	209	
Static at Time Sampled			Total Gallons Purged			Sample Time			
30.36 31.40 JL			6			0828			
Comments: <u>Dry at 6 gals.</u>									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: G129

Project No.: 189791.0035.1639

Date: 10/23/12

Well No. MW-2

Purge Method: SUB

Depth to Water (feet): 30.14

Depth to Product (feet):

Total Depth (feet) 43.63

LPH & Water Recovered (gallons):

Water Column (feet): 13.49

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 32.83

1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.98	214	
0801		35'	3	837.4	17.4	6.74	0.89	206	
		40'	6	931.6	17.6	6.64	0.80	201	
	0806	↓	9	934.6	18.0	6.55	0.80	206	
Static at Time Sampled:			Total Gallons Purged			Sample Time			
31.72			9			0819			
Comments:									

Well No.

Purge Method:

Depth to Water (feet):

Depth to Product (feet):

Total Depth (feet)

LPH & Water Recovered (gallons):

Water Column (feet):

Casing Diameter (Inches):

80% Recharge Depth(feet):

1 Well Volume (gallons):

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
Static at Time Sampled			Total Gallons Purged			Sample Time			
Comments:									



WELL BOX CONDITION REPORT

SITE NO. G129
 ADDRESS 3420 35th Ave.
 DATE 10/23/12

PERFORMED BY: JOE
 PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Slipped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-1	12"	2																		
MW-3	12"	2																		
MW-2	12"	2																		



CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: <u>6129</u>			Union Oil Consultant: <u>AECOM</u>			ANALYSES REQUIRED																	
Site Global ID: <u>70600101465</u>			Consultant Contact: <u>J.M. OMS</u>			TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTX/M/TB/E/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Lobl. DC in 8260B											Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>	
Site Address: <u>3420 3rd St NW Oak Ridge</u>			Consultant Phone No.: <u>707-261-5112</u>																			Special Instructions	
Union Oil PM: <u>Raja Rumbia</u>			Sampling Company: <u>TRC</u>																				
Union Oil PM Phone No.: <u>720-720-6270</u>			Sampled By (PRINT): <u>[Signature]</u>																				
Charge Code: <u>NWRTB-0 351639 -0- LAB</u>			Sampler Signature: <u>[Signature]</u>																				
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.			BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911																				
SAMPLE ID																							
Field Point Name	Matrix	DTW	Date (yyymmdd)	Sample Time	# of Containers													Notes / Comments					
<u>MW-1</u>	<u>W-S-A</u>		<u>21/12/13</u>	<u>0727</u>	<u>3</u>																		
<u>MW-3</u>	<u>W-S-A</u>		↓	<u>0828</u>	↓																		
<u>MW-2</u>	<u>W-S-A</u>		↓	<u>0819</u>	↓																		
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
	<u>W-S-A</u>																						
Relinquished By <u>[Signature]</u> Company <u>TRC</u> Date / Time: <u>10/23/13</u>			Relinquished By _____ Company _____ Date / Time: _____			Relinquished By _____ Company _____ Date / Time: _____																	
Received By <u>[Signature]</u> Company <u>BC Lab</u> Date / Time: <u>10/23/13</u>			Received By _____ Company _____ Date / Time: _____			Received By _____ Company _____ Date / Time: _____																	

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM

17-Sep-12

Site ID: 6129
Address 3420 35th Ave.
City: Oakland
Cross Street: Quigley St.

Project No.: 189791.0035.1639 / 00TA01
Client: Roya Kambin
Contact #: 925-790-6270
PM: Jim Harms AECOM
PM Contact #: 916-361-6412

Total number of wells: 3 Min. Well Diameter (in.): 2 # of Techs, # of Hrs: 1, 3
Depth to Water (ft.): 28 Max. Well Diameter (in.): 2 Travel Time (hrs):
Max. Well Depth (ft): 44 Hotel PO#:

ACTIVITIES:	Frequency	Notes	Hotel PO#:
Gauging: <input checked="" type="checkbox"/>	Semi Q2/Q4		
Purge/Sampling: <input checked="" type="checkbox"/>	Semi Q2/Q4		
No Purge/Sample <input type="checkbox"/>			

RELATED ACTIVITIES	Note
Drums: <input checked="" type="checkbox"/>	
Other Activities: <input type="checkbox"/>	
Traffic Control: <input type="checkbox"/>	

PERMIT INFORMATION:

NOTIFICATIONS:

35th Ave. 76: 510-530-3550

SITE INFORMATION:

Coordinated event with Former Exxon Station 7-0234

Take field measurements pre-purge and after each casing volume purged.

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM
17-Sep-12

Site ID: 6129
Address 3420 35th Ave.
City: Oakland
Cross Street: Quigley St.

Project No.: 189791.0035.1639 / 00TA01
Client: Roya Kambin
Contact #: 925-790-6270
PM: Jim Harms AECOM
PM Contact #: 916-361-6412

LAB INFORMATION:

Global ID: T0600101465
Lab WO: 351639

Lab Used: BC Labs

Lab Notes: Lab analyses:
TPH-G by GC/MS, BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 3 voas w/HCl]

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM
 17-Sep-12

Site ID.: 6129
 Address 3420 35th Ave.
 City: Oakland
 Cross Street Quigley St.

Well IDs	Benz.	MTBE	Gauging				Sampling				Field Measurements			Comments
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	
MW-1	0	190	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D.O., ORP	2" casing
MW-3	0	1100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D.O., ORP	2" casing
MW-2	0	1200	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D.O., ORP	2" casing

Attachment B

Historic Groundwater Data

**GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON STATION 351639/FORMER UNOCAL 6129
3420 35TH AVENUE, OAKLAND, CALIFORNIA**

Well ID	Date Sampled	TOC		Ground-Water		TPHg (8015) ()	TPHg (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	TBA (µg/l)	ETBE (µg/l)	DIPE (µg/l)	TAME (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)	Ethanol (µg/l)	
		Elevation (feet)	Depth to Water (feet)	Elevation (feet)	Depth to Water (feet)															
MW-1	1/5/1990	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	5/11/1990	--	--	--	--	ND	--	ND	7.10	ND	ND	--	--	--	--	--	--	--	--	
	8/9/1990	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	11/14/1990	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	2/12/1991	--	--	--	--	ND	--	0.32	ND	ND	ND	--	--	--	--	--	--	--	--	
	5/9/1991	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	11/13/2003	--	--	--	--	--	180.00	<1.0	<1.0	<1.0	<2.0	240.00	<200	<4.0	<4.0	<4.0	<4.0	<4.0	<1000	
	8/27/2004	190.79	30.65	71.59	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<50
	11/23/2004	190.79	29.35	72.89	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<50
	2/9/2005	190.79	26.89	75.35	--	--	<50	<0.50	<0.50	<0.50	<1.0	9.30	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
	5/17/2005	190.79	26.56	75.68	--	--	<50	<0.50	<0.50	<0.50	<1.0	1.90	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
	7/27/2005	190.79	27.33	74.91	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
	12/6/2005	190.79	29.59	72.65	--	--	<50	<0.50	0.93	<0.50	1.80	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	2/21/2006	190.79	28.27	73.97	--	--	<50	<0.50	<0.50	<0.50	<1.0	2.60	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	6/8/2006	190.79	26.07	76.17	--	--	<50	<0.50	<0.50	<0.50	<1.0	11.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	9/15/2006	190.79	28.86	73.38	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.40	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	12/14/2006	190.79	29.49	72.75	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	3/28/2007	190.79	27.24	75.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	0.64	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	6/25/2007	190.79	28.30	73.94	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	9/22/2007	190.79	30.61	71.63	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.10	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	12/14/2007	190.79	30.30	71.94	--	--	<50	<0.50	<0.50	<0.50	<1.0	0.65	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	3/17/2008	190.79	27.22	75.02	--	--	<50	<0.50	<0.50	<0.50	<1.0	14.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	6/20/2008	190.79	30.10	72.14	--	--	<50	<0.50	<0.50	<0.50	<1.0	11.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
9/11/2008	190.79	31.04	71.20	--	--	<50	<0.50	<0.50	<0.50	<1.0	1.30	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/25/2008	190.79	30.88	71.36	--	--	<50	<0.50	<0.50	<0.50	<1.0	5.80	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/9/2009	190.79	27.50	74.74	--	--	<50	<0.50	<0.50	<0.50	<1.0	25.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
5/28/2009	190.79	28.25	73.99	--	--	<50	<0.50	<0.50	<0.50	<1.0	17.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/11/2009	190.79	30.60	160.19	--	--	<50	<0.50	<0.50	<0.50	<1.0	18.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
5/7/2010	190.79	26.06	164.73	--	--	<50	<0.50	<0.50	<0.50	<1.0	64.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/1/2010	190.79	30.18	160.61	--	--	<50	<0.50	<0.50	<0.50	<1.0	92.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
5/27/2011	190.79	26.87	163.92	--	--	<50	110.00	<0.50	<0.50	<0.50	<1.0	220.00	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2011	190.79	29.14	161.65	--	--	<50	1101.00	<0.50	<0.50	<0.50	<1.0	150.00	41.00	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
05/24/2012	190.79	26.58	164.21	--	--	<50	140.00	<0.50	<0.50	<0.50	<1.0	190.00	66.00	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/23/2012	190.79	30.51	160.28	--	--	<50	130.00	<0.50	<0.50	<0.50	<1.0	140.00	47.00	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-2	1/5/1990	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	5/11/1990	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	

**GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON STATION 351639/FORMER UNOCAL 6129
3420 35TH AVENUE, OAKLAND, CALIFORNIA**

Well ID	Date Sampled	TOC		Ground-Water		TPHg (8015)	TPHg (8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	ETBE	DIPE	TAME	EDB	1,2-DCA	Ethanol	
		Elevatio n (feet)	Depth to Water (feet)	Elevatio n (feet)																
	8/9/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/14/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/12/1991	--	--	--		ND	--	ND	0.42	ND	0.51	--	--	--	--	--	--	--	--	--
	5/9/1991	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/13/2003	--	--	--		--	<2000	<20	<20	<20	<40	2100.00	<4000	<80	<80	<80	<80	<80	<80	<20000
	8/27/2004	190.80	30.28	71.88	--	--	950	<5.0	<5.0	<5.0	<10	1400	<5.0	<5.0	24	<5.0	<5.0	<5.0	<5.0	<500
	11/23/2004	190.80	28.75	73.41	--	--	53	<0.50	<0.50	<0.50	<1.0	4.2	<5.0	<0.50	18	<0.50	<0.50	<0.50	<0.50	<50
	2/9/2005	190.80	26.08	76.08	--	--	<500	<0.50	<0.50	<0.50	<1.0	400	<5.0	<5.0	19	<5.0	<5.0	<5.0	<5.0	<500
	5/17/2005	190.80	24.53	77.63	--	--	<50	<0.50	<0.50	<0.50	<1.0	330	<5.0	<0.50	12	<0.50	<0.50	<0.50	<0.50	<50
	7/27/2005	190.80	27.51	74.65	--	--	<500	<5.0	<5.0	<5.0	<1.0	580	140	<5.0	16	<5.0	<5.0	<5.0	<5.0	<500
	12/6/2005	190.80	29.13	73.03	--	--	340	<0.50	<0.50	<0.50	<1.0	780	61	<0.50	15	<0.50	<0.50	<0.50	<0.50	<250
	2/21/2006	190.80	29.23	72.93	--	--	190	<0.50	<0.50	<0.50	<1.0	340	<10	<0.50	18	<0.50	<0.50	<0.50	<0.50	<250
	6/8/2006	190.80	25.76	76.40	--	--	<500	<5.0	<5.0	<5.0	<10	440	<100	<5.0	14	<5.0	<5.0	<5.0	<5.0	<2500
	9/15/2006	190.80	29.17	72.99	--	--	<500	<5.0	<5.0	<5.0	<5.0	570	<100	<5.0	17	<5.0	<5.0	<5.0	<5.0	<2500
	12/14/2006	190.80	29.11	73.05	--	--	520	<0.50	<0.50	<0.50	<0.50	770	27	<0.50	20	<0.50	<0.50	<0.50	<0.50	<250
	3/28/2007	190.80	26.68	75.48	--	--	290	<0.50	<0.50	<0.50	<0.50	460	260	<0.50	23	<0.50	<0.50	<0.50	<0.50	<250
	6/25/2007	190.80	25.91	76.25	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<0.50	23	<0.50	<0.50	<0.50	<0.50	<250
	9/22/2007	190.80	30.18	71.98	--	--	400	<0.50	<0.50	<0.50	<0.50	530	<10	<0.50	35	<0.50	<0.50	<0.50	<0.50	<250
	12/14/2007	190.80	29.96	72.20	--	--	400	<0.50	<0.50	<0.50	<1.0	930	48	<0.50	24	<0.50	<0.50	<0.50	<0.50	<250
	3/17/2008	190.80	26.74	75.42	--	--	570	<5.0	<5.0	<5.0	<10	630	<100	<5.0	18	<5.0	<5.0	<5.0	<5.0	<2500
	6/20/2008	190.80	29.78	72.38	--	--	580	<0.50	<0.50	<0.50	<1.0	1200	<10	<0.50	16	<0.50	<0.50	<0.50	<0.50	<250
	9/11/2008	190.80	30.62	71.54	--	--	220	<0.50	<0.50	<0.50	<1.0	29	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	11/25/2008	190.80	30.48	71.68	--	--	500	<0.50	<0.50	<0.50	<1.0	1500	<10	<0.50	19	<0.50	<0.50	<0.50	<0.50	<250
	3/9/2009	190.80	25.75	76.41	--	--	910	<5.0	<5.0	<5.0	<10	1400	<100	<5.0	15	<5.0	<5.0	<5.0	<5.0	<2500
	5/28/2009	190.80	27.71	74.45	--	--	460	<0.50	<0.50	<0.50	<1.0	740	<10	<0.50	20	<0.50	<0.50	<0.50	<0.50	<250
	12/11/2009	190.80	29.80	161.00	--	--	640	<5.0	<5.0	<5.0	<10	1300	<100	<5.0	19	<5.0	<5.0	<5.0	<5.0	<2500
	5/7/2010	190.80	25.11	165.69	--	--	600	<1.0	<1.0	<1.0	<2.0	940	<20	<1.0	14	<1.0	<1.0	<1.0	<1.0	<500
	11/1/2010	190.80	29.90	160.90	--	--	140	<0.50	<0.50	<0.50	<1.0	730	<10	<0.50	28	<0.50	<0.50	<0.50	<0.50	<250
	5/27/2011	190.80	26.44	164.36	--	--	560	<0.50	<0.50	<0.50	<1.0	1,100	210.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
	11/23/2011	190.80	28.53	162.27	--	--	830	<0.50	<0.50	<0.50	<1.0	1,500	400.00	<0.50	9.00	<0.50	<0.50	<0.50	<0.50	<250
	05/24/2012	190.80	25.97	164.83	--	--	1,000	<0.50	<0.50	<0.50	<1.0	1,200	430	<0.50	8.8	<0.50	<0.50	<0.50	<0.50	<250
	10/23/2012	190.80	30.14	160.66	--	--	750	<0.50	<0.50	<0.50	<1.0	1,300	420	<0.50	14	<0.50	<0.50	<0.50	<0.50	<250
MW-3	1/5/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	5/11/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	8/9/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	11/14/1990	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/12/1991	--	--	--		ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--

**GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON STATION 351639/FORMER UNOCAL 6129
3420 35TH AVENUE, OAKLAND, CALIFORNIA**

Well ID	Date Sampled	Ground-Water		TPHg (8015)	TPHg (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	TBA (µg/l)	ETBE (µg/l)	DIPE (µg/l)	TAME (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)	Ethanol (µg/l)
		TOC Elevatio n (feet)	Depth to Water (feet)														
	5/9/1991	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
	11/13/2003	--	--	--	--	2600	<20	<20	<20	<40	3700	<4000	<80	<80	<80	<80	<20000
	8/27/2004	188.58	29.61	70.39	--	1700	<10	<10	<10	<20	2600	<100	<10	<20	<10	<10	<1000
	11/23/2004	188.58	28.48	71.52	--	1500	<10	<10	<10	<20	1800	<100	<10	<20	<10	<10	<1000
	2/9/2005	188.58	26.45	73.55	--	<1000	<0.50	<0.50	<0.50	<1.0	2100	130	<10	<10	<10	<10	<1000
	5/17/2005	188.58	25.61	74.39	--	<1000	<0.50	<0.50	<0.50	<1.0	1200	<100	<10	<10	<10	<10	<1000
	7/27/2005	188.58	27.35	72.65	--	<1000	<10	<10	<10	<20	1400	360	<10	<10	<10	<10	<1000
	12/6/2005	188.58	28.78	71.22	--	430	<0.50	1.6	<0.50	3.6	1800	160	<0.50	<0.50	<0.50	<0.50	<250
	2/21/2006	188.58	28.91	71.09	--	420	<0.50	<0.50	<0.50	<1.0	1100	88	<0.50	<0.50	0.58	<0.50	<250
	6/8/2006	188.58	25.97	74.03	--	<1200	<12	<12	<12	<25	1000	<250	<12	<12	<12	<12	<6200
	9/15/2006	188.58	28.73	71.27	--	<1200	<12	<12	<12	<12	1200	<250	<12	<12	<12	<12	<6200
	12/14/2006	188.58	28.62	71.38	--	<1000	<10	<10	<10	<10	1300	<200	<10	<10	<10	<10	<5000
	3/28/2007	188.58	26.69	73.31	--	500	<1.0	<1.0	<1.0	<1.0	860	500	<1.0	<1.0	<1.0	<1.0	<500
	6/25/2007	188.58	26.74	73.26	--	270	<0.50	<0.50	<0.50	<0.50	570	11	<0.50	<0.50	<0.50	<0.50	<250
	9/22/2007	188.58	29.57	70.43	--	500	<0.50	<0.50	<0.50	<0.50	980	<10	<0.50	<0.50	<0.50	<0.50	<250
	12/14/2007	188.58	29.30	70.70	--	270	<0.50	<0.50	<0.50	<1.0	570	26	<0.50	<0.50	<0.50	<0.50	<250
	3/17/2008	188.58	26.82	73.18	--	220	<0.50	<0.50	<0.50	<1.0	520	<10	<0.50	<0.50	<0.50	<0.50	<250
	6/20/2008	188.58	29.10	70.90	--	490	<0.50	<0.50	<0.50	<1.0	1300	49	<0.50	<0.50	<0.50	<0.50	<250
	9/11/2008	188.58	29.89	70.11	--	630	<5.0	<5.0	<5.0	<10	1200	<100	<5.0	<5.0	<5.0	<5.0	<2500
	11/25/2008	188.58	29.74	70.26	--	380	<0.50	<0.50	<0.50	<1.0	870	<10	<0.50	<0.50	<0.50	<0.50	<250
	3/9/2009	188.58	25.56	74.44	--	310	<0.50	<0.50	<0.50	<1.0	720	15	<0.50	<0.50	<0.50	<0.50	<250
	5/28/2009	188.58	27.55	72.45	--	410	<0.50	<0.50	<0.50	<1.0	750	<10	<0.50	<0.50	<0.50	<0.50	<250
	12/11/2009	188.58	29.10	159.48	--	220	<0.50	<0.50	<0.50	<1.0	620	63	<0.50	<0.50	<0.50	<0.50	<250
	5/7/2010	188.58	25.72	162.86	--	360	<0.50	<0.50	<0.50	<1.0	660	<10	<0.50	<0.50	<0.50	<0.50	<250
	11/1/2010	188.58	29.29	159.29	--	120	<0.50	<0.50	<0.50	<1.0	490	<10	<0.50	<0.50	<0.50	<0.50	<250
	5/27/2011	188.58	26.53	162.05	--	340	<0.50	<0.50	<0.50	<1.0	890	73.00	<0.50	<0.50	<0.50	<0.50	<250
	05/24/2012	188.58	25.95	162.63	--	660	<0.50	<0.50	<0.50	<1.0	1,100	300	<0.50	<0.50	<0.50	<0.50	<250
	10/23/2012	188.58	29.39	159.19	--	480	<0.50	<0.50	<0.50	<1.0	500	160	<0.50	<0.50	<0.50	<0.50	<250

Abbreviations and Notes:

TOC = Top of casing

µg/L = Micrograms per liter

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015 and 8260

Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

TBA= tertiary butyl alcohol by EPA Method 8260B

DIPE= di-isopropyl ether by EPA Method 8260B

**GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON STATION 351639/FORMER UNOCAL 6129
3420 35TH AVENUE, OAKLAND, CALIFORNIA**

Well ID	Date Sampled	TOC		Ground-Water		TPHg (8015)	TPHg (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)	TBA (µg/l)	ETBE (µg/l)	DIPE (µg/l)	TAME (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)	Ethanol (µg/l)
		Elevatio n (feet)	Depth to Water (feet)	Elevatio n (feet)															

ETBE= ethyl tertiary butyl ether by EPA Method 8260B

TAME= tertiary amyl methyl ether by EPA Method 8260B

1,2-DCA= 1,2-Dichloroethane by EPA Method 8260B

EDB= 1,2-Dibromoethane by EPA Method 8260B

Lead = Total lead by Method 6010

Ethanol by EPA Method 8260B

-- = Not available / not applicable

<x = Not detected at or above laboratory method detection limit indicated

ND = Not detected, detection limit not known

1 = TPHg does not exhibit a "gasoline" pattern, is entirely due to MTBE

Attachment C

BC Laboratories Analytical Report

Date of Report: 10/30/2012

Jim Harms

AECOM

10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Project: 6129
BC Work Order: 1220465
Invoice ID: B133091

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Molly Meyers
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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12-20-105

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: <u>6129</u>				Union Oil Consultant: <u>AECOM</u>				ANALYSES REQUIRED									
Site Global ID: <u>T0600101465</u>				Consultant Contact: <u>JIM HARMS</u>				TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	<u>EOB/EDC by 8260B</u>	Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>			
Site Address: <u>3420 35TH Ave, Oakland</u>				Consultant Phone No.: <u>916-361-6412</u>										Special Instructions			
Union Oil PM: <u>Roya Kambin</u>				Sampling Company: <u>TRC</u>													
Union Oil PM Phone No.: <u>925-790-6270</u>				Sampled By (PRINT): <u>JOE LEWIS</u>				Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911									
Charge Code: <u>NWRTB-0351639-0-LAB</u>				Sampler Signature: <u>Joe D. Lewis</u>													
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.												Notes / Comments					
SAMPLE ID																	
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	<u>EOB/EDC by 8260B</u>	Notes / Comments					
MW-1	W-S-A	-1	12/10/23	0727	3	X	X	X	X	X	X						
MW-3	W-S-A	-2	↓	0828	↓	↓	↓	↓	↓	↓	↓						
MW-2	W-S-A	-3	↓	0819	↓	↓	↓	↓	↓	↓	↓						
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
Relinquished By: <u>Joe D. Lewis TRC</u> Company: <u>TRC</u> Date / Time: <u>10/23/12 0930</u>				Relinquished By: <u>Nancy Bogan BCLAB</u> Company: <u>BCLAB</u> Date / Time: <u>10-23-12 18:30</u>				Relinquished By: <u>Joe D. Lewis</u> Company: <u>BCLAB</u> Date / Time: <u>10-23-12 21:30</u>				SUB-OUT <input type="checkbox"/>					
Received By: <u>Nancy Bogan BCLAB</u> Company: <u>BCLAB</u> Date / Time: <u>10-23-12 1430</u>				Received By: <u>Joe D. Lewis</u> Company: <u>BCLAB</u> Date / Time: <u>10-23-12 18:30</u>				Received By: <u>Joe D. Lewis</u> Company: <u>BCLAB</u> Date / Time: <u>10-23-12 2130</u>									

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1220465 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-20465

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: VOA Thermometer ID: 207 Date/Time 10-23-12
 Temperature: (A) 0.9 °C / (C) 1.0 °C Analyst Init JNW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 10/23/12 2340
 A = Actual / C = Corrected



AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1220465-01	COC Number: --- Project Number: 6129 Sampling Location: --- Sampling Point: MW-1-W-121023 Sampled By: TRCI	Receive Date: 10/23/2012 21:30 Sampling Date: 10/23/2012 07:27 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: T0600101465 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1220465-02	COC Number: --- Project Number: 6129 Sampling Location: --- Sampling Point: MW-3-W-121023 Sampled By: TRCI	Receive Date: 10/23/2012 21:30 Sampling Date: 10/23/2012 08:28 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: T0600101465 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1220465-03	COC Number: --- Project Number: 6129 Sampling Location: --- Sampling Point: MW-2-W-121023 Sampled By: TRCI	Receive Date: 10/23/2012 21:30 Sampling Date: 10/23/2012 08:19 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: T0600101465 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1220465-01	Client Sample Name: 6129, MW-1-W-121023, 10/23/2012 7:27:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	140	ug/L	2.5	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	47	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	130	ug/L	50	Luft-GC/MS	ND	A90	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	91.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.6	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.4	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/26/12	10/26/12 11:28	JMC	MS-V12	1	BVJ2187
2	EPA-8260B	10/26/12	10/29/12 14:10	JMC	MS-V12	5	BVJ2187

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AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1220465-02	Client Sample Name: 6129, MW-3-W-121023, 10/23/2012 8:28:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	500	ug/L	12	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	160	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	480	ug/L	50	Luft-GC/MS	ND	A90	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	85.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.4	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	87.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/26/12	10/26/12 11:10	JMC	MS-V12	1	BVJ2187
2	EPA-8260B	10/26/12	10/29/12 13:52	JMC	MS-V12	25	BVJ2187

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AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1220465-03	Client Sample Name: 6129, MW-2-W-121023, 10/23/2012 8:19:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	1300	ug/L	25	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	410	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	14	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	750	ug/L	50	Luft-GC/MS	ND	A90	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	91.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	91.9	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	89.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	90.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/26/12	10/26/12 10:53	JMC	MS-V12	1	BVJ2187
2	EPA-8260B	10/26/12	10/29/12 13:35	JMC	MS-V12	50	BVJ2187

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AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVJ2187						
Benzene	BVJ2187-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVJ2187-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVJ2187-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVJ2187-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVJ2187-BLK1	ND	ug/L	0.50		
Toluene	BVJ2187-BLK1	ND	ug/L	0.50		
Total Xylenes	BVJ2187-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVJ2187-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVJ2187-BLK1	ND	ug/L	10		
Diisopropyl ether	BVJ2187-BLK1	ND	ug/L	0.50		
Ethanol	BVJ2187-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVJ2187-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVJ2187-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVJ2187-BLK1	97.3	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVJ2187-BLK1	98.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVJ2187-BLK1	96.6	%	80 - 120 (LCL - UCL)		



AECOM
10461 Old Placerville Rd, Suite 170
Sacramento, CA 95827

Reported: 10/30/2012 16:04
Project: 6129
Project Number: 351639
Project Manager: Jim Harms

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVJ2187											
Benzene	BVJ2187-BS1	LCS	28.500	25.000	ug/L	114		70 - 130			
Toluene	BVJ2187-BS1	LCS	27.280	25.000	ug/L	109		70 - 130			
1,2-Dichloroethane-d4 (Surrogate)	BVJ2187-BS1	LCS	9.9800	10.000	ug/L	99.8		75 - 125			
Toluene-d8 (Surrogate)	BVJ2187-BS1	LCS	10.110	10.000	ug/L	101		80 - 120			
4-Bromofluorobenzene (Surrogate)	BVJ2187-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120			



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Project: 6129
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVJ2187		Used client sample: N								
Benzene	MS	1220293-01	ND	25.350	25.000	ug/L		101		70 - 130
	MSD	1220293-01	ND	26.980	25.000	ug/L	6.2	108	20	70 - 130
Toluene	MS	1220293-01	ND	23.350	25.000	ug/L		93.4		70 - 130
	MSD	1220293-01	ND	25.440	25.000	ug/L	8.6	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1220293-01	ND	9.8100	10.000	ug/L		98.1		75 - 125
	MSD	1220293-01	ND	9.8400	10.000	ug/L	0.3	98.4		75 - 125
Toluene-d8 (Surrogate)	MS	1220293-01	ND	9.6100	10.000	ug/L		96.1		80 - 120
	MSD	1220293-01	ND	9.6100	10.000	ug/L	0	96.1		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1220293-01	ND	9.4100	10.000	ug/L		94.1		80 - 120
	MSD	1220293-01	ND	9.4300	10.000	ug/L	0.2	94.3		80 - 120



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Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

Attachment D

Former Exxon Station Groundwater Data

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
Monitoring Well Samples														
MW1	07/15/92	---	---	Well installed.										
MW1	07/17/92	---	192.00	33.02	158.98	No	67	---	6.6	6.9	2.0	4.5	17	---
MW1	10/22/92	---	192.00	34.07	157.93	No	<50	---	2.9	<0.5	<0.5	<0.5	16	---
MW1	02/04/93	---	192.00	29.43	162.57	No	<50	---	0.8	<0.5	<0.5	<0.5	4	---
MW1	05/03/93	---	192.00	29.72	162.28	No	71	---	2.8	7.2	2.2	22	40	---
MW1	07/30/93	---	192.00	32.95	159.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	5	---
MW1	10/19/93	---	192.00	34.34	157.66	No	<50	---	<0.5	<0.5	<0.5	<0.5	12	---
MW1	02/23/94	---	192.00	31.72	160.28	No	<50	---	<0.5	<0.5	<0.5	<0.5	4	---
MW1	06/06/94	---	192.00	31.77	160.23	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW1	08/18/94	---	192.00	33.76	158.24	No	<50	---	<0.5	<0.5	<0.5	<0.5	130	---
MW1	11/15/94	---	192.00	34.08	157.92	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW1	02/06/95	---	192.00	28.50	163.50	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW1	05/10/95	---	192.00	29.30	162.70	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW1	09/20/99	---	192.00	33.30	158.70	No	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<50
MW1	Well destroyed in June 2000.													
MW2	07/15/92	---	---	Well installed.										
MW2	07/17/92	---	194.85	34.65	160.20	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	10/22/92	---	194.85	35.64	159.21	No	<50	---	<0.5	<0.5	<0.5	<0.5	--	---
MW2	02/04/93	---	194.85	31.13	163.72	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	05/03/93	---	194.85	31.08	163.77	No	<50	---	<0.5	<0.5	<0.5	<0.5	3	---
MW2	07/30/93	---	194.85	34.34	160.51	No	<50	---	<0.5	<0.5	<0.5	<0.5	14	---
MW2	10/19/93	---	194.85	36.00	158.85	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	02/23/94	---	194.85	33.92	160.93	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	06/06/94	---	194.85	33.50	161.35	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	08/18/94	---	194.85	35.38	159.47	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	---
MW2	11/15/94	---	194.85	35.93	158.92	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW2	02/06/95	---	194.85	30.38	164.47	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW2	05/10/95	---	194.85	30.77	164.08	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW2	09/20/99	---	194.85	35.15	159.70	No	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<0.5
MW2	Well destroyed in June 2000.													
MW3	07/15/92	---	---	Well installed.										
MW3	07/17/92	---	196.90	37.24	159.66	No	<50	---	<0.5	<0.5	<0.5	<0.5	50	---
MW3	10/22/92	---	196.90	35.95	160.95	No	<50	---	<0.5	<0.5	<0.5	<0.5	9	---
MW3	02/04/93	---	196.90	29.85	167.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW3	05/03/93	---	196.90	29.87	167.03	No	<50	---	<0.5	<0.5	<0.5	<0.5	3	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW3	07/30/93	---	196.90	33.85	163.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	22	---
MW3	10/19/93	---	196.90	35.89	161.01	No	<50	---	<0.5	<0.5	<0.5	<0.5	12	---
MW3	02/23/94	---	196.90	32.88	164.02	No	<50	---	<0.5	<0.5	<0.5	<0.5	25	---
MW3	06/06/94	---	196.90	32.40	164.50	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW3	08/18/94	---	196.90	35.07	161.83	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	---
MW3	11/15/94	---	196.90	35.97	160.93	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW3	02/06/95	---	196.90	28.39	168.51	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW3	05/10/95	---	196.90	28.90	168.00	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW3	09/20/99	---	196.90	34.68	162.22	No	75.0	1.87	<0.5	11.5	1.8	18.0	<75	<0.5
MW3	Well destroyed in June 2000.													
MW4	03/02/09	---	---	Well installed.										
MW4	03/30/09	---	197.62	30.94	166.68	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	04/02/09	---	197.62	Well surveyed.										
MW4	05/28/09	---	197.62	32.00	165.62	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	08/31/09	---	197.62	35.43	162.19	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	12/11/09	---	197.62	35.01	162.61	No	<50	<0.50	<0.50	0.83	<0.50	1.1	---	---
MW4	05/07/10	---	197.62	29.11	168.51	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW4	11/01/10	---	197.62	34.95	162.67	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW4	05/27/11 d	---	197.62	30.65	166.97	No	---	---	---	---	---	---	---	---
MW4	11/23/11	---	197.62	33.49	164.13	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW4	05/24/12	---	197.62	30.02	167.60	No	58	<0.50	0.84	4.4	0.64c	3.5	---	---
MW4	10/31/12	---	197.62	35.14	162.48	No	110	<0.50	5.3	45	4.2	21	---	---
MW5	03/06/09	---	---	Well installed.										
MW5	03/30/09	---	196.35	30.05	166.30	No	4,200	1,900	540	140	<12	310	---	---
MW5	04/02/09	---	196.35	Well surveyed.										
MW5	05/28/09	---	196.35	31.45	164.90	No	5,300	3,600	890	150	<25	140	---	---
MW5	08/31/09	---	196.35	34.70	161.65	No	5,800	3,500	550	<100	<100	<100	---	---
MW5	12/11/09	---	196.35	34.52	161.83	No	4,000b	3,800	230	<100	<100	<100	---	---
MW5	05/07/10	---	196.35	30.84	165.51	No	2,700b	1,700	73	5.3	3.6	6.5	---	---
MW5	11/01/10	---	196.35	33.93	162.42	No	2,400b	3,400	320	71	21	40	---	---
MW5	05/27/11 d	---	196.35	31.65	164.70	No	---	---	---	---	---	---	---	---
MW5	11/23/11	---	196.35	32.58	163.77	No	1,900b	3,200	72	2.7	3.1	8.1	---	---
MW5	05/24/12	---	196.35	30.26	166.09	No	2,900b	1,700	54	31	5.2	17	---	---
MW5	10/31/12	---	196.35	33.94	162.41	No	2,200b	2,700	220	72	8.7	47	---	---
MW6	03/09/09	---	---	Well installed.										
MW6	03/30/09	---	192.41	26.94	165.47	No	2,800	4,800	0.91	<0.50	<0.50	<0.50	---	---
MW6	04/02/09	---	192.41	Well surveyed.										

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW6	05/28/09	---	192.41	28.04	164.37	No	2,800	6,000	<100	<100	<100	<100	---	---
MW6	08/31/09	---	192.41	30.57	161.84	No	4,900	6,600	<100	<100	<100	<100	---	---
MW6	12/11/09	---	192.41	30.78	161.63	No	4,900b	6,200	<100	<100	<100	<100	---	---
MW6	05/07/10	---	192.41	25.42	166.99	No	2,900b	3,700	2.7	<0.50	0.74c	<1.0	---	---
MW6	11/01/10	---	192.41	30.68	161.73	No	850b	6,100	2.1	<0.50	<0.50	<1.0	---	---
MW6	05/27/11 d	---	192.41	27.07	165.34	No	---	---	---	---	---	---	---	---
MW6	11/23/11	---	192.41	29.25	163.16	No	1,600b	6,400	<0.50	<0.50	<0.50	<1.0	---	---
MW6	05/24/12	---	192.41	26.36	166.05	No	2,000b	3,400	1.3c	9.7	0.97c	5.5	---	---
MW6	10/31/12	---	192.41	30.74	161.67	No	1,400b	5,400	3.8	28	2.2	11	---	---
MW7	03/09/09	---	---	Well installed.										
MW7	03/30/09	---	194.34	29.15	165.19	No	55	66	<0.50	<0.50	<0.50	<0.50	---	---
MW7	04/02/09	---	194.34	Well surveyed.										
MW7	05/28/09	---	194.34	30.16	164.18	No	50	67	<1.0	<1.0	<1.0	<1.0	---	---
MW7	08/31/09	---	194.34	33.31	161.03	No	<50	12	<0.50	0.60	<0.50	<0.50	---	---
MW7	12/11/09	---	194.34	32.71	161.63	No	<50	31	0.78	1.7	0.62	2.4	---	---
MW7	05/07/10	---	194.34	27.54	166.80	No	510b	700	<0.50	<0.50	<0.50	<1.0	---	---
MW7	11/01/10	---	194.34	32.82	161.52	No	68b	140	<0.50	<0.50	<0.50	<1.0	---	---
MW7	05/27/11 d	---	194.34	28.85	165.49	No	---	---	---	---	---	---	---	---
MW7	11/23/11	---	194.34	31.39	162.95	No	190b	300	<0.50	<0.50	<0.50	<1.0	---	---
MW7	05/24/12 d	---	194.34	28.31	166.03	No	---	---	---	---	---	---	---	---
MW7	10/31/12	---	194.34	32.86	161.48	No	230b	290	2.9	21	1.8	9.2	---	---
MW8	03/04/09	---	---	Well installed.										
MW8	03/30/09	---	192.96	27.35	165.61	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/02/09	---	192.96	Well surveyed.										
MW8	05/28/09	---	192.96	28.72	164.24	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	08/31/09	---	192.96	31.93	161.03	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/11/09	---	192.96	31.24	161.72	No	<50	<0.50	0.74	1.6	0.59	2.3	---	---
MW8	05/07/10	---	192.96	25.68	167.28	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW8	11/01/10	---	192.96	31.18	161.78	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW8	05/27/11	---	192.96	27.55	165.41	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW8	11/23/11	---	192.96	29.74	163.22	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW8	05/24/12	---	192.96	26.93	166.03	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW8	10/31/12	---	192.96	31.35	161.61	No	75	<0.50	2.5	19	1.7	8.7	---	---
MW9	03/05/09	---	---	Well installed.										
MW9	03/30/09	---	195.16	28.31	166.85	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	04/02/09	---	195.16	Well surveyed.										
MW9	05/28/09	---	195.16	29.69	165.47	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW9	08/31/09	---	195.16	33.20	161.96	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	12/11/09	---	195.16	32.62	162.54	No	<50	<0.50	0.73	1.7	0.54	2.2	---	---
MW9	05/07/10	---	195.16	26.59	168.57	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW9	11/01/10	---	195.16	32.45	162.71	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW9	05/27/11	---	195.16	29.62	165.54	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW9	11/23/11	---	195.16	30.56	164.60	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW9	05/24/12	---	195.16	27.94	167.22	No	<50	<0.50	<0.50	<0.50	<0.50	<1.0	---	---
MW9	10/31/12	---	195.16	32.66	162.50	No	140	<0.50	6.9	38	2.7	13	---	---
RW1	12/22/11	---	---	Well installed.										
RW1	12/30/11	---	195.15	Well surveyed.										
RW1	05/24/12	---	195.15	28.55	166.60	No	5,500b	2,500	920	5.9c	51	14	---	---
RW1	10/31/12d	---	195.15	---	---	---	---	---	---	---	---	---	---	---
Grab Groundwater Samples														
Pit Water	06/14/02	11.5a	---	---	---	---	5,600	12,000	140	840	100	530	---	---
UST Pit	06/19/02	13.5a	---	---	---	---	680	640	2.7	36	18	130	---	---
W-38-B11	11/14/07	38	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
W-15-B12	11/13/07	15	---	---	---	---	8,400	78	67	<5.0	140	150	---	---
W-40-B13	11/12/07	40	---	---	---	---	<50	0.53	<0.50	<0.50	<0.50	<0.50	---	---
W-15-B14	11/13/07	15	---	---	---	---	2,500	16	1.7	3.0	26	13	---	---
W-38-B15	11/15/07	38	---	---	---	---	18,000	12,000	3,400	2,500	330	2,000	---	---
W-40-B16	11/15/07	40	---	---	---	---	<50	7.7	<0.50	<0.50	<0.50	<0.50	---	---
W-37-B17	11/13/07	37	---	---	---	---	630	2,200	1.8	<0.50	4.1	1.4	---	---
W-38-B18	11/12/07	38	---	---	---	---	4,300	1,400	52	<12	56	96	---	---
W-35-B19	03/03/09	35	---	---	---	---	4,400	7,100	<0.50	<0.50	<0.50	<1.0	---	---
W-35-B20	03/03/09	35	---	---	---	---	640	440	<0.50	<0.50	<0.50	<1.0	---	---
W-35-B21	03/03/09	35	---	---	---	---	<50	1.4	<0.50	<0.50	<0.50	<1.0	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 70234
 3450 35th Avenue
 Oakland, California

Notes:	=	Data prior to 1999 provided by EA Environmental Science and Engineering in previously submitted reports.
TOC Elev.	=	Top of well casing elevation; datum is NAVD88.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is NAVD88.
NAPL	=	Non-aqueous phase liquid.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B; from April 2009 to October 2010, analyzed using EPA Method 8260B.
Total Pb	=	Total lead analyzed using EPA Method 6010.
Organic Pb	=	Organic lead analyzed using CA DHS LUFT method.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
µg/L	=	Micrograms per liter.
mg/L	=	Milligrams per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not sampled/Not analyzed/Not measured/Not applicable.
a	=	Approximate depth to groundwater surface at time of sampling.
b	=	Hydrocarbon pattern does not match that of the specified standard.
c	=	Analyte presence was not confirmed by second column or GC/MS analysis.
d	=	Well inaccessible.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	
Monitoring Well Samples										
MW1	07/17/92 - 09/20/99	---	Not analyzed for these analytes.							
MW1	Well destroyed in June 2000.									
MW2	07/17/92 - 09/20/99	---	Not analyzed for these analytes.							
MW2	Well destroyed in June 2000.									
MW3	07/17/92 - 09/20/99	---	Not analyzed for these analytes.							
MW3	Well destroyed in June 2000.									
MW4	03/30/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	05/28/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	08/31/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	12/11/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	05/07/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	11/01/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	05/27/11 d	---	---	---	---	---	---	---	---	
MW4	11/23/11	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	05/24/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW4	10/31/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---	
MW5	03/30/09	---	<12	17	450	<12	<12	<12	---	
MW5	05/28/09	---	<25	<25	530	<25	<25	<25	---	
MW5	08/31/09	---	<100	<100	<1,000	<100	<100	<100	---	
MW5	12/11/09	---	<100	<100	2,000	<100	<100	<100	---	
MW5	05/07/10	---	<25	<25	400	<25	<25	<25	---	
MW5	11/01/10	---	<50	<50	1,500	<50	<50	<50	---	
MW5	05/27/11 d	---	---	---	---	---	---	---	---	
MW5	11/23/11	---	<50	<50	<500	<50	<50	<50	---	
MW5	05/24/12	---	<50	<50	1,400	<50	<50	<50	---	
MW5	10/31/12	---	<50	<50	730	<50	<50	<50	---	
MW6	03/30/09	---	<0.50	<0.50	410	1.3	<0.50	0.82	---	
MW6	05/28/09	---	<100	<100	<1,000	<100	<100	<100	---	
MW6	08/31/09	---	<100	<100	1,100	<100	<100	<100	---	
MW6	12/11/09	---	<100	<100	2,600	<100	<100	<100	---	
MW6	05/07/10	---	<100	<100	<1,000	<100	<100	<100	---	
MW6	11/01/10	---	<50	<50	2,400	<50	<50	<50	---	

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW6	05/27/11 d	---	---	---	---	---	---	---	---
MW6	11/23/11	---	<100	<100	<1,000	<100	<100	<100	---
MW6	05/24/12	---	<100	<100	2,700	<100	<100	<100	---
MW6	10/31/12	---	<100	<100	<1,000	<100	<100	<100	---
MW7	03/30/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW7	05/28/09	---	<1.0	<1.0	<10	<1.0	<1.0	<1.0	---
MW7	08/31/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW7	12/11/09	---	<0.50	<0.50	12	<0.50	<0.50	<0.50	---
MW7	05/07/10	---	<0.50	<0.50	130	<0.50	<0.50	<0.50	---
MW7	11/01/10	---	<2.5	<2.5	27	<2.5	<2.5	<2.5	---
MW7	05/27/11 d	---	---	---	---	---	---	---	---
MW7	11/23/11	---	<5.0	<5.0	<50	<5.0	<5.0	<5.0	---
MW7	05/24/12 d	---	---	---	---	---	---	---	---
MW7	10/31/12	---	<5.0	<5.0	<50	<5.0	<5.0	<5.0	---
MW8	03/30/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	05/28/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	08/31/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	12/11/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	05/07/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	11/01/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	05/27/11	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	11/23/11	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	05/24/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW8	10/31/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	03/30/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	05/28/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	08/31/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	12/11/09	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	05/07/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	11/01/10	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	05/27/11	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	11/23/11	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	05/24/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9	10/31/12	---	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
RW1	05/24/12	---	<50	<50	1,900	<50	<50	<50	---
RW1	10/31/12 d	---	---	---	---	---	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
Grab Groundwater Samples									
Pit Water	06/14/02	11.5a	---	---	---	---	---	---	---
UST Pit	06/19/02	13.5a	---	---	---	---	---	---	---
W-38-B11	11/14/07	38	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<50
W-15-B12	11/13/07	15	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<500
W-40-B13	11/12/07	40	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<50
W-15-B14	11/13/07	15	<1.0	<1.0	<20	<1.0	<1.0	<1.0	<100
W-38-B15	11/15/07	38	<25	<25	1,900	<25	<25	<25	<2,500
W-40-B16	11/15/07	40	<0.50	<0.50	<10	<0.50	<0.50	<0.50	85
W-37-B17	11/13/07	37	<0.50	<0.50	58	<0.50	<0.50	<0.50	<50
W-38-B18	11/12/07	38	<12	<12	<250	<12	<12	<12	<1,200
W-35-B19	03/03/09	35	<50	<50	<500	<50	<50	<50	<5,000
W-35-B20	03/03/09	35	<0.50	<0.50	12	<0.50	<0.50	<0.50	<50
W-35-B21	03/03/09	35	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<50

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
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NAPL	= Non-aqueous phase liquid.
TPHg	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
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DIPE	= Di-isopropyl ether analyzed using EPA Method 8260B.
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<	= Less than the stated laboratory reporting limit.
---	= Not sampled/Not analyzed/Not measured/Not applicable.
a	= Approximate depth to groundwater surface at time of sampling.
b	= Hydrocarbon pattern does not match that of the specified standard.
c	= Analyte presence was not confirmed by second column or GC/MS analysis.
d	= Well inaccessible.