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Jennifer C. Sedlachek
Project Manager

ExxonMobil Refining & Supply

September 26, 2007

Mr. Steven Plunkett
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Exxon RAS #7-0238/2200 East 12th Street, Oakland California.

Dear Mr. Plunkett:

Attached for your review and comment is a copy of the letter report entitled ***Soil and Groundwater Assessment Report,*** dated September 26, 2007, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details assessment activities at the subject site.

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

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: ERI's Soil and Groundwater Assessment Report, dated September 26, 2007

cc: w/ attachment
Mr. Chuck Headlee, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Robert C. Ehlers, M.S., P.E., The Valero Companies, Environmental Liability Management

w/o attachment
Ms. Paula Sime, Environmental Resolutions, Inc.

VALUE, QUALITY, RESPONSE

Southern California
Northern California
Pacific Northwest
Southwest
Texas
Montana

September 26, 2007
ERI 229303.R24

Ms. Jennifer C. Sedlachek
ExxonMobil Refining & Supply - Global Remediation
4096 Piedmont Avenue #194
Oakland, California 94611

SUBJECT Soil and Groundwater Assessment Report
Former Exxon Service Station 7-0238
2200 East 12th Street, Oakland, California

Ms. Sedlachek:

At the request of Exxon Mobil Corporation (Exxon Mobil), Environmental Resolutions, Inc. (ERI) prepared this report documenting assessment activities at the subject site. ERI observed the advancement of six direct-push (DP) soil borings (DP1 through DP6) for collection of soil and groundwater samples. Assessment activities were performed in response to directives from the Alameda County Health Care Services Agency (the ACEH) dated January 17, 2007, and May 24, 2007. The work was performed in accordance with ERI's *Work Plan for Additional Soil and Groundwater Investigation,* dated April 10, 2007, and subsequent *Addendum to Work Plan for Additional Soil and Groundwater Investigation,* dated June 4, 2007, and subsequent discussions and correspondence with the ACEH. ERI requested and was granted an extension on the due date for the submittal of this report due to encroachment permitting delays. Regulatory correspondence is provided in Attachment A. The purpose of this investigation was to further delineate the extent of petroleum hydrocarbons, in particular methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA), in soil and groundwater beneath and downgradient of the site.

BACKGROUND

The site is located on the eastern corner of 22nd Avenue and East 12th Street in Oakland, California (Plate 1). Land use in the vicinity of the site is mixed-use commercial/industrial and residential (Plate 2). The site is currently owned and operated by Mr. Stanley Wong and Mr. Aaron Wong as a Valero-branded service station. The locations of the former and current underground storage tanks (USTs), dispenser islands, groundwater monitoring wells, and select site features are shown on Plate 3. Groundwater monitoring has been conducted at the site since June 1988.

SOIL BORINGS ADVANCEMENT

Scope of Work

The work was performed in accordance with ERI's standard field protocol (Attachment B) and a site-specific health and safety plan. ERI obtained permits from the Alameda County Public Works Department (the County) and encroachment permits from the City of Oakland (the City) prior to performing the field work. Copies of the permits are provided in Attachment C.

Proposed boring DP7 is located on private property located at 2121 East 12th Street. ERI submitted an access agreement to the owner of the property on June 20, 2007, and the ACEH followed up with a second request letter dated August 22, 2007. ERI has not received a response from the property owner.

Boring DP8 was proposed in the southeast-bound lane of East 12th Street and can not be advanced due to the presence of multiple underground utility lines in the vicinity of the proposed location.

Soil Boring Advancement

From August 21 through 24, 2007, ERI observed Woodward Drilling (Woodward), of Rio Vista, California, use a hand auger to clear the upper 8 feet of 12 soil borings (DP1 through DP6 and separate adjacent holes for possible use of a Hydropunch® tool for groundwater sample collection). Soil samples from the 5 feet below ground surface (fbgs) interval were collected directly from the hand auger. Woodward was unable to clear borings DP1 and DP4 through DP6, and their adjacent holes, exclusively with the hand auger; subsurface conditions necessitated the use of the air knife to clear these borings.

From August 27 through September 6, 2007, ERI observed Woodward advance borings DP1 through DP6 to approximately 30 fbgs using dual-wall direct-push equipment. Soil boring locations are shown on Plate 3.

ERI collected continuous core soil samples from the soil borings during drilling from 5 to 30 fbgs for stratigraphic evaluation and possible laboratory analysis. Soil samples were retained for analysis at 5-foot intervals and where photo-ionization detector (PID) readings indicated the possible presence of hydrocarbons. ERI identified the samples using visual and manual methods and classified the samples according to the Unified Soil Classification System (USCS). Boring logs showing the descriptions of soil encountered and the USCS symbol key are presented in Attachment D.

Upon completion of soil and groundwater sampling from the borings, ERI observed Woodward backfill the borings by tremie-grouting with neat cement grout from total depth to ground surface.

Laboratory Analytical Methods – Soil Samples

ERI submitted select soil samples for analysis to Calscience Environmental Laboratories, Inc. (Calscience), of Garden Grove, California, a California state-certified laboratory, under Chain-of-Custody protocol. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) using Environmental Protection Agency (EPA) Method 8015B and benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), oxygenated compounds (ethyl tertiary butyl ether [ETBE], tertiary amyl methyl ether [TAME], tertiary butyl alcohol [TBA], and di-isopropyl ether [DIPE]), and lead scavengers (1,2-dibromoethane and 1,2-dichloroethane) using EPA Method 8260B. The laboratory analytical reports and Chain-of-Custody records are provided in Attachment E. Cumulative analytical laboratory results of soil samples are presented in Tables 1A and 1B. Select analytical results of soil samples collected during this assessment are shown on Plate 4.

Grab Groundwater Sample Collection

Groundwater sample collection was attempted in borings DP1 through DP6 from intervals where sediments indicated the presence of groundwater. Groundwater sampling was attempted at shallow and deeper depth intervals as summarized in the following table.

Boring	Shallow Interval (fbgs)	Duration Boring Open	Sample Collected?
SHALLOW INTERVALS			
DP1	13	30 minutes	Yes
DP1	15-17	35 minutes	No
DP2/HP2	13-17	30 minutes	Yes
DP3	10	20 minutes	Yes
DP3	15	15 minutes	Yes
DP4	13-17	15 minutes	No
DP4/adjacent hole	13-17	3.25 hours	No
DP5/adjacent hole	15-18	18 hours	No
DP6/adjacent hole	16-19	18.5 hours	3 vials
DEEPER INTERVALS			
DP1	26-30	30 minutes	No
DP4	22-24	15 minutes	No
DP5	24-30	2 hours	No
DP6	20-30	2 hours	No

ERI made multiple attempts to collect groundwater from the shallow sampling interval since groundwater did not immediately enter borings DP4, DP5, and DP6. An adjacent boring at each location was advanced and temporary casing was installed. Due to encroachment permit restrictions and inability to secure the boring location overnight, the borehole adjacent to boring DP4 could not be left open to allow additional time for groundwater to enter the hole. Soil conditions suggest that groundwater may not have entered the boring even if it could have been left open for an extended period of time. Borings adjacent to borings DP5 and DP6 were advanced to 18 and 19 fbgs, respectively, and temporary casing was installed. The borings were secured and left overnight to allow groundwater to enter the casings. Groundwater did not enter boring HP5, and very little groundwater entered boring HP6; only three vials could be filled with groundwater.

Laboratory Analytical Methods - Grab Groundwater Samples

ERI submitted grab groundwater samples collected from the borings for laboratory analysis to Calscience, under Chain-of-Custody protocol. The samples were analyzed for TPHg using EPA Method 8015B and BTEX, MTBE, oxygenated compounds, and lead scavengers using EPA Method 8260B. The laboratory analytical reports and Chain-of-Custody records are provided in Attachment E. Cumulative grab groundwater sample data are presented in Table 2. Cumulative groundwater monitoring and sampling data are presented on Tables 3A and 3B.

Soil Boring Surveying

On September 7, 2007, Morrow Surveying (Morrow), of West Sacramento, California, surveyed the soil boring locations according to AB 2886 standards. A site map depicting the survey data is provided in Attachment F.

Waste Disposal

Soil generated during soil boring activities were temporarily stored in 55-gallon drums on site pending characterization and disposal. ERI collected one composite soil sample (4 brass sleeves) for analysis for TPHg using EPA Method 8015B; BTEX, oxygenated compounds, and lead scavengers using EPA Method 8260B; and total lead using EPA Method 6010B for evaluation of disposal options. Dillard Environmental Services (Dillard), of Byron, California, transported five drums of soil and two empty drums

to the Republic Services Vasco Road landfill in Livermore, California, on October 5, 2007. Waste disposal documentation will be provided under separate cover.

Water generated during soil boring activities was stored on site in two 55-gallon metal drums pending characterization and disposal. ERI transferred approximately 110 gallons of rinsate water through the on-site groundwater remediation system on September 14, 2007.

RESULTS OF ASSESSMENT

Site Geology and Hydrogeology

Sediments encountered in the borings during this investigation were predominantly very stiff, damp gravelly clay and clayey gravel with varying amounts of fine sand, interspersed with lenses of clayey sand and sandy clay. A layer of clayey gravel is consistently present in the off-site borings at approximately 15 to 19 fbgs and varies in thickness from 1 to 5 feet. Moisture is present along clast boundaries throughout much of the clayey gravel sediments, but free groundwater (saturated sediment or groundwater readily available for sampling) was only present in boring DP3 at 10 and 15 fbgs. First groundwater was encountered in the borings at depths of 9 to 16 fbgs. Sediments are described on the boring logs provided in Attachment D. Cross sections are provided on Plates 6 through 13.

Soil Conditions

Soil samples were collected continuously from the soil borings. Select samples from approximately 5 to 30 fbgs in each soil boring were preserved and submitted for laboratory analysis. A summary of current and historical soil analytical results is provided in Tables 2A and 2B. Laboratory analytical reports and Chain-of-Custody records are presented in Attachment E. A plan view of select analytical results of soil samples collected during this assessment is shown on Plate 4.

Residual MTBE was reported in soil samples collected from soil borings DP2 through DP6 at a maximum concentration of 0.990 milligrams per kilogram (mg/kg) (DP6, 19.5 fbgs). Concentrations of TPHg and BTEX were not reported in the soil samples.

Concentrations of TBA were reported in soil samples collected from soil borings DP3, DP4, and DP6. The maximum reported concentration of TBA was 1.300 mg/kg (DP4, 14.5 fbgs). Other oxygenated compounds and lead scavengers were not reported at or above the laboratory reporting limits in the soil samples.

Groundwater Conditions

A summary of current and historical grab groundwater analytical results is presented in Table 1. Laboratory analytical reports and Chain-of-Custody records are presented in Attachment E. A plan view of select analytical results of grab groundwater samples collected during this assessment is shown on Plate 5.

Concentrations of MTBE were reported in the samples collected from borings DP1 through DP3 and DP6, and concentrations of TPHg and TBA were reported in the samples collected from boring DP3 and DP6. The maximum reported concentrations of TPHg, MTBE, and TBA were reported in the grab groundwater samples collected from soil boring DP6 at 1,300 micrograms per liter (µg/L), 4,800 µg/L, and 2,900 µg/L, respectively. Other dissolved hydrocarbons, oxygenated compounds, and lead scavengers were not reported in the grab groundwater samples collected from the soil borings.

DISCUSSION

Hydrocarbon Concentrations in Soil

The maximum concentrations of petroleum hydrocarbons in soil occur along the southwest portion of the site, in the vicinity of soil borings DP2 through DP4, at a depth between 14.5 and 20 fbgs. Concentrations of MTBE and TBA in soil occur off site, along East 12th Street, in the vicinity of borings DP5 and DP6, at a depth between 5 and 25 fbgs. Soil samples collected from 10 fbgs are below first-encountered groundwater and thus may not be representative of soil conditions. Analytical results of soil samples collected along the northern perimeter of the site from boring DP1 are below or close to the laboratory reporting limits.

Hydrocarbon Concentrations in Groundwater

The maximum concentrations of dissolved-phase TPHg and MTBE in groundwater occur off site along East 12th Street, in the vicinity of soil borings DP2, DP3, and DP6. Residual concentrations of MTBE are present in groundwater samples collected from soil boring DP1 in the northern portion of the site. Dissolved-phase TPHg and benzene were not present in the sample collected from boring DP1.

SUMMARY AND CONCLUSIONS

Residual hydrocarbons are present in soil downgradient of the site in samples collected at depths of less than 25 fbgs. Maximum residual hydrocarbon concentrations in soil occur in the intervals at or below the groundwater table (approximately 15 fbgs). Petroleum hydrocarbon concentrations in soil samples collected at depths between 25 and 30 fbgs (maximum depth explored) were not reported above laboratory reporting limits.

Although the highest dissolved hydrocarbons were reported in groundwater samples collected from the boring adjacent to DP6, the boring yielded very little water (three 40-milliliter vials). Boring DP5, located approximately 80 feet southeast, remained open overnight and did not yield groundwater. This minimal flow of groundwater in the downgradient borings is the result of the finer grained and more clay-rich sediments found off site. Due to the absence of groundwater, these are not appropriate downgradient locations for installing a groundwater monitoring well.

RECOMMENDATIONS

Based on the results of this investigation, ERI recommends:

- Continuation of quarterly monitoring and sampling of groundwater monitoring wells MW9A through MW9D and MW9I to evaluate the groundwater flow direction, hydraulic gradient, and dissolved-phase hydrocarbon concentrations.

- Gaining access to the three existing wells (MW9F, MW9G, and MW9H) in the City right-of-way for continual evaluation of off-site groundwater conditions. These wells have been inaccessible due to encroachment permit restrictions. ERI and Exxon Mobil are currently working with the City of Oakland to obtain access to the wells.

- Gaining access to the private property located at 2121 East 12th Street for installation of off-site boring DP7 and updating the Site Conceptual Model for the site upon evaluating the results of the investigation. ERI, with the assistance of the ACEH, has attempted to gain access to the property but has received no response from the property owner.

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Exxon Mobil, and any reliance on this report by third parties shall be at such party's sole risk.

DOCUMENT DISTRIBUTION

ERI recommends forwarding copies of this report to:

Mr. Steven Plunkett
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Mr. Chuck Headlee
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Mr. Robert C. Ehlers, M.S., P.E.
The Valero Companies
Environmental Liability Management
685 West Third Street
Hanford, California 93230

Please contact Ms. Paula Sime, ERI's project manager for this site, at (707) 766-2000 with any questions regarding this report.

Sincerely,
Environmental Resolutions, Inc.

for: Jennifer L. Lady
Senior Staff Scientist

Heidi Dieffenbach-Carle
P.G. 6793

Attachments:

Table 1A:	Cumulative Analytical Results of Soil Samples
Table 1B:	Additional Cumulative Analytical Results of Soil Samples
Table 2:	Laboratory Analytical Results of Grab Groundwater Samples
Table 3A:	Cumulative Groundwater Monitoring and Sampling Data
Table 3B:	Additional Cumulative Groundwater Monitoring and Sampling Data
Plate 1:	Site Vicinity Map
Plate 2:	Local Area Map
Plate 3:	Generalized Site Plan
Plate 4:	Select Soil Analytical Results
Plate 5:	Select Groundwater Analytical Results
Plate 6:	Cross Section A-A' Select Soil Analytical Results
Plate 7:	Cross Section A-A' Select Groundwater Analytical Results
Plate 8:	Cross Section B-B' Select Soil Analytical Results
Plate 9:	Cross Section B-B' Select Groundwater Analytical Results
Plate 10:	Cross Section C-C' Select Soil Analytical Results
Plate 11:	Cross Section C-C' Select Groundwater Analytical Results
Plate 12:	Cross Section D-D' Select Soil Analytical Results
Plate 13:	Cross Section D-D' Select Groundwater Analytical Results
Attachment A:	Regulatory Correspondence
Attachment B:	Field Protocol
Attachment C:	Permits
Attachment D:	Unified Soil Classification System, Symbol Key, and Boring Logs
Attachment E:	Laboratory Analytical Reports and Chain-of-Custody Records
Attachment F:	Morrow Survey Map

TABLE 1A
CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
Soil Boring Samples									
MW-9D	10/05/88	6.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
MW-9D	10/05/88	10.5	---	<10	---	<0.05	<0.1	<0.2	<0.1
MW-9E	10/05/88	5.5	---	1,900	---	<0.05	<0.1	18	<0.1
MW-9E	10/05/88	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
MW-9G	11/22/88	4.0	---	<10	---	<0.05	0.2	<0.2	<0.1
SB-1	11/22/88	4.8	---	<10	---	0.30	0.2	<0.2	<0.1
B9-1	10/06/88	5.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-1	10/06/88	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-1	10/06/88	12.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-2	10/06/88	5.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-2	10/06/88	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-2	10/06/88	10.5	---	<10	---	<0.05	<0.1	<0.2	<0.1
B9-2	10/06/88	13.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-4	01/12/89	4.0	---	160	---	1.0	0.9	2.3	5.8
SB-4	01/12/89	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-5	01/12/89	4.0	---	<10	---	0.33	<0.1	<0.2	<0.1
SB-5	01/12/89	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-6	01/12/89	5.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-6	01/12/89	5.5	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-7	01/12/89	4.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-7	01/12/89	8.5	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-8	01/12/89	5.5	---	<10	---	0.43	<0.1	<0.2	<0.1
SB-8	01/12/89	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-9	01/12/89	4.0	---	39	---	<0.05	<0.1	0.4	1.1
SB-9	01/12/89	9.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-10-1	03/02/89	5.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-10-2	03/02/89	10.0	---	<10	---	<0.05	<0.1	<0.2	<0.1

TABLE 1A
CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
SB-11-1	03/02/89	5.0	---	<10	---	<0.05	0.1	<0.2	<0.1
SB-11-2	03/02/89	10.0	---	<10	---	<0.05	<0.1	<0.2	<0.1
SB-12	09/19/89	3.5	---	11	---	0.09	0.2	0.07	0.09
SB-13	09/19/89	4.0	---	1.7	---	<0.05	0.1	<0.2	<0.1
SB-14	09/19/89	4.5	---	3.5	---	<0.05	<0.1	<0.2	<0.1
SB-15	09/19/89	3.5	---	6.3	---	0.07	<0.1	<0.2	<0.1
SB-16	09/19/89	4.5	---	9.0	---	0.21	<0.1	0.08	<0.1
SB-17	09/19/89	5.0	---	42	---	0.093	0.043	0.139	<0.01
SB-18	09/19/89	5.0	---	5	---	<0.01	0.245	0.021	0.015
SB-19	09/19/89	5.0	---	6	---	<0.01	0.078	0.022	<0.01
SB-20	09/19/89	5.0	---	7	---	0.035	0.038	0.017	<0.01
S-20-DPE1	06/05/03	20	---	<5	2.03/2.36c	0.0011	<0.001	<0.001	<0.001
S-20-DPE2	06/04/03	20	---	<5	0.165/0.102c	<0.001	<0.001	<0.001	<0.001
S-20-DPE3	06/04/03	20	---	<5	0.089/0.0317c	<0.001	<0.001	<0.001	0.0033
S-20-DPE4	06/05/03	20	---	<5	0.047/0.0356c	<0.001	<0.001	<0.001	<0.001
S-5-DP1	08/21/07	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-10-DP1	08/31/07	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-20-DP1	08/31/07	20	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-25-DP1	08/31/07	25	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-30-DP1	08/31/07	30	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-5-DP2	08/20/07	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-10.5-DP2	08/27/07	10.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-15-DP2	08/27/07	15	---	<0.50	0.0058	<0.0050	<0.0050	<0.0050	<0.0100
S-20-DP2	08/27/07	20	---	<0.50	0.0068	<0.0050	<0.0050	<0.0050	<0.0100
S-25-DP2	08/27/07	25	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-29.5-DP2	08/27/07	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100

TABLE 1A
CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
S-5-DP3	08/20/07	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-10-DP3	08/28/07	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-15-DP3	08/28/07	15	---	<0.50	0.016	<0.0050	<0.0050	<0.0050	<0.0100
S-20-DP3	08/28/07	20	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-25-DP3	08/28/07	25	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-29.9-DP3	08/28/07	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-5-DP4	08/20/07	5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-10-DP4	08/29/07	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-14.5-DP4	08/29/07	14.5	---	<0.50	0.660	<0.0050	<0.0050	<0.0050	<0.0100
S-19.5-DP4	08/29/07	19.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-25.5-DP4	08/29/07	25.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-29.5-DP4	08/29/07	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-5-DP5	08/22/07	5	---	<0.50	0.0066	<0.0050	<0.0050	<0.0050	<0.0100
S-10-DP5	09/05/07	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-14.5-DP5	09/05/07	14.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-20-DP5	09/05/07	20	---	<0.50	0.0078	<0.0050	<0.0050	<0.0050	<0.0100
S-25-DP5	09/05/07	25	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-29.5-DP5	09/05/07	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-5-DP6	08/22/07	5	---	<0.50	0.0081	<0.0050	<0.0050	<0.0050	<0.0100
S-10-DP6	08/30/07	10	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-14.5-DP6	08/30/07	14.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-19.5-DP6	08/30/07	19.5	---	<0.50	0.990	<0.0050	<0.0050	<0.0050	<0.0100
S-25-DP6	08/30/07	25	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
S-29.5-DP6	08/30/07	29.5	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
Excavation Boundaries Samples									
S1	Oct-90	5	1.4	9.5	---	0.66	0.038	0.77	0.076
S2	Oct-90	5	6.1	40	---	0.32	0.15	1.5	0.17
S3	Oct-90	6	<1.0	2.3	---	0.49	0.028	0.15	0.16
S4	Oct-90	5	1.3	16	---	1.2	0.056	1.7	0.052
S5	Oct-90	5	22	290	---	2.8	1.5	12	<0.0050
S6	Oct-90	6	10	7.7	---	0.28	0.028	0.52	0.21
S7	Oct-90	7	1.4	17	---	0.30	0.070	0.68	0.36
S8	Oct-90	7	2.2	52	---	0.068	0.19	0.20	0.27

TABLE 1A
CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
Tank Hole Samples									
TP1	09/04/91	11.0	---	190	---	0.22	0.26	0.32	0.65
TP2	09/04/91	11.0	340	1,100	---	0.88	1.6	14	7.7
TP3	09/04/91	11.0	---	<0.2	---	<0.001	<0.001	<0.001	<0.001
TP4	09/04/91	11.0	---	<0.2	---	<0.001	<0.001	<0.001	<0.001
TP5	09/04/91	11.0	---	0.78	---	0.0014	<0.001	0.0092	0.025
TP6	09/04/91	11.0	---	0.47	---	0.0033	<0.001	0.0012	0.0017
Tank Hole Overexcavation Confirmation Samples									
TC1	09/05/91	12.0	---	2.5	---	0.005	0.012	0.078	0.12
TC2	09/05/91	5.0	---	2.0	---	0.078	0.022	0.009	0.013
TC2	09/05/91	11.0	---	<0.2	---	<0.001	<0.001	<0.001	<0.001
TC3	09/05/91	5.0	---	1.6	---	0.026	0.017	0.0043	0.011
TC3	09/05/91	12.0	---	<0.2	---	<0.001	<0.001	<0.001	<0.001
TC4	09/05/91	11.0	---	<0.2	---	<0.001	<0.001	<0.001	0.0018
Product Line Trench Samples									
P1	09/04/91	3.0	---	27	---	0.44	0.13	0.89	0.29
P2	09/04/91	6.0	---	1,200	---	10	55	16	88
P3	09/04/91	3.0	---	190	---	0.41	2.2	0.93	5.4
P4	09/04/91	4.0	---	1.9	---	0.007	0.013	0.024	0.034
P5	09/04/91	3.0	---	35	---	0.41	0.26	0.34	1.4
P6	09/04/91	3.0	---	240	---	0.18	0.67	1.7	2.7
Product Line Trench Overexcavation Confirmation Samples									
P2	09/11/91	13.0	---	0.25	---	0.014	0.0077	0.007	0.023
P3	09/11/91	12.0	---	1.5	---	0.68	<0.005	<0.005	0.009
P6	09/11/91	11.0	---	1.3	---	0.005	<0.005	0.081	0.37
Used-Oil Tank Removal Sample									
WO-10'	09/17/97	10.0	440	11	---	0.024	0.011	0.064	0.11

TABLE 1A
CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Notes:

TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015/8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Metals	=	Metals analyzed using method Title 22.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary butyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Other VOCs	=	Other volatile organic compounds analyzed using EPA Method 8260B.
fbgs	=	Feet below ground surface.
mg/kg	=	Milligrams per kilogram.
---	=	Not analyzed/Not sampled/Not measured.
a	=	Also analyzed for volatile organic compounds using EPA Method 8240 and semi-volatile organic compounds using EPA Method 8270. Results were not detected at or above the method reporting limit.
b	=	Analyzed using CA DHS Method #338
c	=	Analyzed using EPA Method 8260B.
d	=	Analyzed using EPA Method 6010/200.7.
e	=	Results not detected at or above the laboratory reporting limit except: Acetone: 0.0501 mg/kg; carbon disulfide: 0.00368 mg/kg; isopropylbenzene: 0.00219 mg/kg; naphthalene: 0.0105 mg/kg; n-propylbenzene: 0.00805 mg/kg; 1,2,4-trimethylbenzene: 0.0061 mg/kg; and 1,3,5-rrimethylbenzene: 0.00249 mg/kg.

TABLE 1B
ADDITIONAL CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES-VOLATILE ORGANIC COMPOUNDS
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	DIPE (mg/kg)	Other VOCs (mg/kg)
Soil Boring Samples									
Borings MW-9D, MW-9E, MW-9G, and SB-1 through SB-20 not analyzed for these analytes.									
S-20-DPE1	06/05/03	20	<0.002	<0.002	0.644	<0.00201	<0.002	<0.01	---
S-20-DPE2	06/04/03	20	<0.002	<0.002	0.41	<0.00201	<0.002	<0.01	---
S-20-DPE3	06/04/03	20	<0.002	<0.002	<0.0496	<0.00198	<0.002	<0.0099	---
S-20-DPE4	06/05/03	20	<0.002	<0.002	<0.0503	<0.00201	<0.002	<0.0101	---
S-5-DP1	08/21/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10-DP1	08/31/07	10	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-20-DP1	08/31/07	20	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-25-DP1	08/31/07	25	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-30-DP1	08/31/07	30	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-5-DP2	08/20/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10.5-DP2	08/27/07	10.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-15-DP2	08/27/07	15	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-20-DP2	08/27/07	20	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-25-DP2	08/27/07	25	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-29.5-DP2	08/27/07	29.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-5-DP3	08/20/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10-DP3	08/28/07	10	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-15-DP3	08/28/07	15	<0.010	<0.010	0.940	<0.0050	<0.0050	<0.010	---
S-20-DP3	08/28/07	20	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-25-DP3	08/28/07	25	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-29.9-DP3	08/28/07	29.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-5-DP4	08/20/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10-DP4	08/29/07	10	<0.010	<0.010	0.180	<0.0050	<0.0050	<0.010	---
S-14.5-DP4	08/29/07	14.5	<0.010	<0.010	1.300	<0.0050	<0.0050	<0.010	---
S-19.5-DP4	08/29/07	19.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-25.5-DP4	08/29/07	25.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-29.5-DP4	08/29/07	29.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-5-DP5	08/22/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10-DP5	09/05/07	10	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-14.5-DP5	09/05/07	14.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-20-DP5	09/05/07	20	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-25-DP5	09/05/07	25	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---

TABLE 1B
ADDITIONAL CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES-VOLATILE ORGANIC COMPOUNDS
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	DIPE (mg/kg)	Other VOCs (mg/kg)
S-29.5-DP5	09/05/07	29.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-5-DP6	08/22/07	5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-10-DP6	08/30/07	10	<0.010	<0.010	0.540	<0.0050	<0.0050	<0.010	---
S-14.5-DP6	08/30/07	14.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-19.5-DP6	08/30/07	19.5	<0.010	<0.010	0.055	<0.0050	<0.0050	<0.010	---
S-25-DP6	08/30/07	25	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---
S-29.5-DP6	08/30/07	29.5	<0.010	<0.010	<0.050	<0.0050	<0.0050	<0.010	---

Excavation Boundaries Samples
Not analyzed for these analytes.

Tank Hole Samples
Not analyzed for these analytes.

Tank Hole Overexcavation Confirmation Samples
Not analyzed for these analytes.

Product Line Trench Samples
Not analyzed for these analytes.

Product Line Trench Overexcavation Confirmation Samples
Not analyzed for these analytes.

Used-Oil Tank Removal Sample
Not analyzed for these analytes.

TABLE 1B
ADDITIONAL CUMULATIVE ANALYTICAL RESULTS OF SOIL SAMPLES-VOLATILE ORGANIC COMPOUNDS
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Notes:		
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015/8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Metals	=	Metals analyzed using method Title 22.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary butyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Other VOCs	=	Other volatile organic compounds analyzed using EPA Method 8260B.
fbgs	=	Feet below ground surface.
mg/kg	=	Milligrams per kilogram.
---	=	Not analyzed/Not sampled/Not measured.
a	=	Also analyzed for volatile organic compounds using EPA Method 8240 and semi-volatile organic compounds using EPA Method 8270. Results were not detected at or above the method reporting limit.
b	=	Analyzed using CA DHS Method #338
c	=	Analyzed using EPA Method 8260B.
d	=	Analyzed using EPA Method 6010/200.7.
e	=	Results not detected at or above the laboratory reporting limit except: Acetone: 0.0501 mg/kg; carbon disulfide: 0.00368 mg/kg; isopropylbenzene: 0.00219 mg/kg; naphthalene: 0.0105 mg/kg; n-propylbenzene: 0.00805 mg/kg; 1,2,4-trimethylbenzene: 0.0061 mg/kg; and 1,3,5-rrimethylbenzene: 0.00249 mg/kg.

TABLE 2

LABORATORY ANALYTICAL RESULTS OF GRAB GROUNDWATER SAMPLES

Former Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California

Sample ID	Sample Date	Depth (fbgs)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	TBA (µg/L)	Other Oxygenates (µg/L)
WS-02	09/20/88	5	25,000b	---	12,000a	<73a	<80a	<80a	---	---
MW-9A	09/20/88	6	<76b	---	<76a	<73a	<80a	<80a	---	---
WS-10	09/20/88	6	<76b	---	<76a	<73a	<80a	<80a	---	---
W-13-DP1	08/31/07	13	<50	9.5	<0.50	<0.50	<0.50	<0.50	<10	ND
W-15-DP2	08/27/07	15	<50	7.0	<0.50	<0.50	<0.50	<0.50	<10	ND
W-10-DP3	08/28/07	10	<50	16	<0.50	<0.50	<0.50	<0.50	<10	ND
W-15-DP3	08/28/07	15	160	270	<0.50	<0.50	<0.50	<0.50	67	ND
W-19-DP6	08/31/07	19	1,300	4,800	<50	<50	<50	<50	2,900	ND

Notes:

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 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
Other Oxygenates	=	Di-isopropyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, 1,2-dibromoethane, 1,2-dichloroethane analyzed using EPA Method 8260B.
Metals	=	Metals analyzed using EPA Method 200.7.
fbgs	=	Feet below ground surface.
µg/L	=	Micrograms per liter.
ND	=	Not detected at or above the stated laboratory detection limit.
---	=	Not applicable/Not samples/Not analyzed.
a	=	Analyzed using EPA Method 602.
b	=	Analyzed using DHS Method-LUFT Field Manual.

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9A	06/13/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9A	10/24/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9A	10/13/89	100.07 l	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9A	10/19/90	100.07 l	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	02/05/92	100.07 l	6.93	93.14	---	<50	---	---	1.1	1.8	0.6	1.3
MW9A	05/05/92	100.07 l	6.95	93.12	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	09/14/92	100.07 l	7.65	92.42	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	11/16/92	100.07 l	7.35	92.72	---	<50	---	---	1.1	<0.5	<0.5	<0.5
MW9A	02/03/93	100.07 l	7.85	92.22	---	140	---	---	17	19	1.6	20
MW9A	05/18/93	100.07 l	6.95	93.12	---	<50	---	---	0.8	<0.5	1.3	7
MW9A	08/26/93	100.07 l	7.14	92.93	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	11/04/93	100.07 l	7.23	92.84	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	02/04/94	100.07 l	6.70	93.37	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	05/31/94	100.07 l	6.74	93.33	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	10/26/94	11.46	7.06	4.40	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	05/15/95	11.46	6.32	5.14	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9A	11/02/95	11.46	7.16	4.30	NLPH	<50	<10	---	0.52	0.67	<0.5	<0.5
MW9A	04/26/96	11.46	6.33	5.13	NLPH	<50	<10	---	<0.5	<0.5	<0.5	<0.5
MW9A	08/22/96	11.46	7.02	4.44	NLPH	---	---	---	---	---	---	---
MW9A	02/24/97	11.46	---	---	---	---	---	---	---	---	---	---
MW9A	03/16/98	11.46	6.14	5.32	NLPH	<200	40,000	---	7.9	<2.0	<2.0	<2.0
MW9A	04/21/98	11.46	6.29	5.17	NLPH	<50	53,000	---	3.8	<0.5	<0.5	<0.5
MW9A	07/22/98	14.53	6.58	7.95	NLPH	<250	18,000	---	<2.5	<2.5	<2.5	<2.5
MW9A	12/22/98	14.53	6.47	8.06	NLPH	<50	5,200	---	<0.5	<0.5	<0.5	<0.5
MW9A	02/26/99	14.53	6.38	8.15	NLPH	<100	10,000	---	<1.0	<1.0	<1.0	<1.0
MW9A	05/27/99 a	14.53	6.56	7.97	NLPH	<5,000	15,300	---	<50	<50	<50	<50
MW9A	08/03/99	14.53	9.39	5.14	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9A	12/03/99	14.53	6.52	8.01	NLPH	<50	1,400	---	<0.5	<0.5	<0.5	0.67 b
MW9A	02/29/00	14.53	5.31	9.22	NLPH	<50	20,000	---	1.2	<0.5	<0.5	<0.5
MW9A	05/18/00	14.53	6.31	8.22	NLPH	<50	14,000	11,000	<0.5	<0.5	<0.5	<0.5
MW9A	07/24/00	14.53	6.54	7.99	NLPH	<50	7,400	---	<0.5	<0.5	<0.5	<0.5
MW9A	10/09/00	14.53	6.00	8.53	NLPH	<50	2,300	---	<0.5	<0.5	<0.5	<0.5
MW9A	01/10/01	14.53	6.34	8.19	NLPH	<50	3,700	---	<0.5	<0.5	<0.5	<0.5
MW9A	04/10/01	14.53	9.31	5.22	NLPH	<50	11,000	---	<0.5	<0.5	<0.5	<0.5
MW9A	07/12/01	14.53	---	---	NLPH	<50	3,600	---	<0.5	<0.5	<0.5	<0.5
MW9A	08/17/01 c	14.53	6.61	7.92	---	---	---	---	---	---	---	---
MW9A	10/11/01	14.53	7.03	7.50	NLPH	<50	1,700	---	<0.5	<0.5	<0.5	<0.5
MW9A	10/11/01	14.51	Well surveyed in compliance with AB2886 requirements.									
MW9A	01/11/02	14.51	5.93	8.58	NLPH	2,090e	31,000e	---	18.6e	<0.50	<0.50	<0.50
MW9A	04/12/02	14.51	6.41	8.10	NLPH	34,300	32,200	---	<5.00	<5.00	<5.00	<5.00
MW9A	07/12/02	14.51	6.64	7.87	NLPH	6,760	8,070	---	<0.5	<0.5	<0.5	<0.5
MW9A	10/11/02	14.51	6.76	7.75	NLPH	2,420	2,860	3,040	<0.5	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9A	01/10/03	14.51	5.90	8.61	NLPH	38,800	51,900	---	103	15.0	<5.0	13.0
MW9A	04/09/03	14.51	6.38	8.13	NLPH	34,200	38,600	---	14.0	<5.0	<5.0	<5.0
MW9A	07/22/03	14.51	6.56	7.95	NLPH	20,200	19,500	---	0.50	<0.5	<0.5	<0.5
MW9A	10/01/03	14.51	6.72	7.79	NLPH	9,460	---	7,620	0.70	<0.5	<0.5	<0.5
MW9A	01/06/04	14.51	5.89	8.62	NLPH	8,540	11,600	---	<0.50	<0.5	<0.5	<0.5
MW9A	06/07/04	14.51	6.80	7.71	NLPH	3,470	---	5,600	<0.50	<0.5	<0.5	<0.5
MW9A	08/30/04 d	14.51	---	---	---	---	---	---	---	---	---	---
MW9A	12/13/04	14.51	5.99	8.52	NLPH	1,130	---	1,360	<0.50	<0.5	<0.5	<0.5
MW9A	03/14/05	14.51	6.03	8.48	NLPH	2,150	---	2,560	0.80	<0.5	<0.5	<0.5
MW9A	06/08/05	14.51	14.33	0.18	NLPH	1,610	---	2,040	<0.50	<0.5	<0.5	<0.5
MW9A	09/01/05	14.51	6.50	8.01	NLPH	1,020	---	1,320	<0.50	<0.50	<0.50	<0.50
MW9A	12/09/05 i	14.51	16.50	-1.99	NLPH	1,140	---	801	1.16	<0.50	<0.50	<0.50
MW9A	12/30/05	14.51	5.21	9.30	NLPH	---	---	---	---	---	---	---
MW9A	03/07/06	14.51	16.01	-1.50	NLPH	400	---	560	<2.5	<2.5	<2.5	<2.5
MW9A	06/26/06	14.51	6.10	8.41	NLPH	390	---	430	<2.5	<2.5	<2.5	<2.5
MW9A	09/25/06	14.51	6.54	7.97	NLPH	150	---	172	<0.50	<0.50	<0.50	<0.50
MW9A	12/15/06	14.51	16.21	-1.70	NLPH	250k	---	190	<2.5	<2.5	<2.5	<2.5
MW9A	03/29/07	14.51	7.95	6.56	NLPH	173	---	144	<0.50	<0.50	<0.50	0.54
MW9A	**06/12/07**	**14.51**	**6.49**	**8.02**	**NLPH**	**69k**	**---**	**77**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW9B	06/13/88	---	---	---	---	---	---	---	350	7.8	66	160
MW9B	10/24/88	---	---	---	---	---	---	---	84	<1.0	3.1	3.2
MW9B	10/13/89	98.41 l	---	---	---	---	---	---	4.1	<0.5	<0.5	<3.0
MW9B	10/19/90	98.41 l	---	---	---	62	---	---	27	<0.5	2.3	<0.5
MW9B	02/05/92	98.41 l	5.95	92.46	---	60	---	---	14	<0.5	2.9	2.5
MW9B	05/05/92	98.41 l	5.92	92.49	---	620	---	---	180	2.4	8.4	2.2
MW9B	09/14/92	98.41 l	6.60	91.81	---	110	---	---	9.6	<0.5	<0.5	<0.5
MW9B	11/16/92	98.41 l	6.35	92.06	---	200	---	---	33	<0.5	4.2	1.4
MW9B	02/03/93	98.41 l	6.50	91.91	---	12,000	---	---	320	13	35	110
MW9B	05/18/93	98.41 l	6.42	91.99	---	180	---	---	1.1	<0.5	2.6	5.9
MW9B	08/26/93	98.41 l	6.28	92.13	---	180	---	---	36	<0.5	3	1.7
MW9B	11/04/93	98.41 l	6.23	92.18	---	98	---	---	13	<0.5	1.4	<0.5
MW9B	02/04/94	98.41 l	5.92	92.49	---	790	---	---	170	1.3	12	0.8
MW9B	05/31/94	98.41 l	9.22	89.19	---	1,000	---	---	150	2.5	8.0	2.1
MW9B	10/26/94	9.80	6.04	3.76	---	84	---	---	2.8	0.72	<0.5	<0.5
MW9B	05/15/95	9.80	5.34	4.46	---	2,800	---	---	420	25	27	6.7
MW9B	11/02/95	9.80	6.14	3.66	NLPH	130	<10	---	3.3	<0.5	<0.5	<0.5
MW9B	04/26/96	9.80	5.66	4.14	NLPH	270	70	---	130	2.8	6.7	<3
MW9B	08/22/96	9.80	6.16	3.64	NLPH	210	31	---	5.7	6.8	1.1	9.2
MW9B	02/24/97	9.80	5.58	4.22	NLPH	1,400	1,300	---	76	1.4	4.1	1.2
MW9B	03/16/98	12.83	5.32	7.51	NLPH	860	1,500	---	140	2.0	1.1	<2.0
MW9B	04/21/98	12.83	5.49	7.34	NLPH	1,800	18,000	---	300	<5.0	7.9	<5.0
MW9B	07/22/98	12.83	5.79	7.04	NLPH	<500	26,000	---	13	<5.0	<5.0	<5.0

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9B	12/22/98	12.83	5.69	7.14	NLPH	700	21,000	---	110	3.1	9.1	14
MW9B	02/26/99	12.83	5.10	7.73	NLPH	8,800	8,000	---	2,000	<25	52	38
MW9B	05/18/99	12.83	5.65	7.18	NLPH	<10,000	42,100	---	158	<100	<100	<100
MW9B	08/03/99	12.83	6.24	6.59	NLPH	960	24,900	---	<5.0	<5.0	<5.0	<5.0
MW9B	12/03/99	12.83	5.66	7.17	NLPH	<50	1,000	---	<0.5	<0.5	<0.5	<0.5
MW9B	02/29/00	12.83	4.61	8.22	NLPH	3,100	25,000	---	900	7	23	7.1
MW9B	05/18/00	12.83	5.54	7.29	NLPH	780	34,000	26,000	150	<2.5	4.5	<2.5
MW9B	07/24/00	12.83	8.75	4.08	NLPH	<250	39,000	---	8	<2.5	<2.5	<2.5
MW9B	10/09/00	12.83	4.84	7.99	NLPH	<1,200	30,000	---	1.7	<0.5	<0.5	<0.5
MW9B	01/10/01	12.83	5.56	7.27	NLPH	<250	32,000	---	5.3	<0.5	<0.5	<0.5
MW9B	04/10/01	12.83	5.40	7.43	NLPH	360	27,000	---	69.0	<2.5	22.0	29.8
MW9B	07/12/01	12.83	---	---	NLPH	<250	41,000	---	<2.5	<2.5	<2.5	<2.5
MW9B	08/17/01 c	12.83	5.83	7.00	---	---	---	---	---	---	---	---
MW9B	10/11/01	12.83	8.70	4.13	NLPH	<250	24,000	---	<2.5	<2.5	<2.5	<2.5
MW9B	11/01/01	12.84	Well surveyed in compliance with AB2886 requirements.									
MW9B	01/11/02	12.84	5.16	7.68	NLPH	9,170e	14,600e	---	66.0e	<10.0	54.0	<10.0
MW9B	04/12/02	12.84	5.57	7.27	NLPH	29,600	28,600	---	12.0	<5.00	<5.00	<5.00
MW9B	07/12/02	12.84	5.81	7.03	NLPH	20,200	27,700	---	<10.0	14.0	<10.0	16.0
MW9B	10/11/02 f	12.84	5.91	6.93	NLPH	18,900	24,300	28,200	2.3	<0.5	<0.5	<0.5
MW9B	01/10/03	12.84	5.09	7.75	NLPH	14,900	18,600	---	118	1.0	6.5	3.6
MW9B	04/09/03	12.84	5.51	7.33	NLPH	21,800	24,900	---	51.0	<5.0	<5.0	<5.0
MW9B	07/22/03	12.84	6.09	6.75	NLPH	33,500	36,900	---	<0.50	<0.5	<0.5	<0.5
MW9B	10/01/03	12.84	6.16	6.68	NLPH	25,500	---	19,100	1.10	<0.5	<0.5	<0.5
MW9B	01/06/04	12.84	5.14	7.70	NLPH	10,400	---	15,700	16.9	1.8	18.6	1.7
MW9B	06/07/04	12.84	9.47	3.37	NLPH	3,910	---	1,960	<0.50	<0.5	<0.5	<0.5
MW9B	08/30/04	12.84	h	h	h	954h	---	925h	<0.50h	<0.5h	<0.5	<0.5h
MW9B	12/13/04	12.84	4.96	7.88	NLPH	233	---	140	0.90	<0.5	<0.5	<0.5
MW9B	03/14/05	12.84	5.52	7.32	NLPH	523	---	504	<0.50	<0.5	<0.5	<0.5
MW9B	06/08/05	12.84	6.70	6.14	NLPH	114	---	130	<0.50	<0.5	<0.5	<0.5
MW9B	09/01/05	12.84	5.92	6.92	NLPH	90.5	---	82.6	0.55	<0.50	<0.50	<0.50
MW9B	12/09/05	12.84	8.46	4.38	NLPH	207	---	149	<0.50	<0.50	<0.50	<0.50
MW9B	12/30/05	12.84	4.59	8.25	NLPH	---	---	---	---	---	---	---
MW9B	03/07/06	12.84	6.41	6.43	NLPH	98	---	64	<0.50	<0.50	<0.50	<0.50
MW9B	06/26/06	12.84	5.71	7.13	NLPH	130	---	39	0.63	<0.50	0.53	0.53
MW9B	09/25/06	12.84	6.35	6.49	NLPH	<50.0	---	7.40	<0.50	<0.50	<0.50	<0.50
MW9B	12/15/06	12.84	6.77	6.07	NLPH	<50	---	11	<0.50	<0.50	<0.50	<0.50
MW9B	03/29/07	12.84	6.40	6.44	NLPH	197	---	225	<0.50	<0.50	<0.50	0.59
MW9B	**06/12/07**	**12.84**	**6.05**	**6.79**	**NLPH**	**53k**	**---**	**52**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW9C	06/13/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9C	10/24/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9C	10/13/89	99.73 l	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9C	10/19/90	99.73 l	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9C	02/05/92	99.73 l	6.44	93.29	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	05/05/92	99.73 l	6.50	93.23	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	09/14/92	99.73 l	7.00	92.73	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	11/16/92	99.73 l	6.72	93.01	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	02/03/93	99.73 l	5.75	93.98	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	05/18/93	99.73 l	6.72	93.01	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	08/26/93	99.73 l	6.84	92.89	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	11/04/93	99.73 l	6.90	92.83	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	02/04/94	99.73 l	6.28	93.45	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	05/31/94	99.73 l	6.42	93.31	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	10/26/94	11.14	6.80	4.34	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	05/15/95	11.14	5.72	5.42	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	11/02/95	11.14	6.88	4.26	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	04/26/96	11.14	6.28	4.86	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	08/22/96	11.14	6.65	4.49	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9C	03/16/98	11.14	5.51	5.63	NLPH	<500	150,000	---	24	<5.0	<5.0	<5.0
MW9C	04/21/98	11.14	5.83	5.31	NLPH	150	130,000	150,000	<0.5	<0.5	<0.5	<0.5
MW9C	07/22/98	14.19	6.43	7.76	NLPH	<500	95,000	---	<5.0	<5.0	<5.0	<5.0
MW9C	12/22/98	14.19	6.16	8.03	NLPH	<500	84,000	---	<5.0	<5.0	<5.0	<5.0
MW9C	02/26/99	14.19	5.46	8.73	NLPH	<250	55,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	05/18/99	14.19	6.27	7.92	NLPH	<25,000	68,900	---	<250	<250	<250	<250
MW9C	08/03/99	14.19	7.13	7.06	NLPH	210	69,200	---	<1.0	1.3	<1.0	<1.0
MW9C	12/03/99	14.19	6.17	8.02	NLPH	290	50,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	02/29/00	14.19	4.49	9.70	NLPH	<250	40,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	05/18/00	14.19	5.96	8.23	NLPH	<250	46,000	33,000	<2.5	<2.5	<2.5	<2.5
MW9C	07/24/00	14.19	6.47	7.72	NLPH	<250	44,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	10/09/00	14.19	6.57	7.62	NLPH	<250	39,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	01/10/01	14.19	6.09	8.10	NLPH	<250	42,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	04/10/01	14.19	7.88	6.31	NLPH	<250	35,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	07/12/01	14.19	---	---	NLPH	<250	32,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	08/17/01 c	14.19	6.60	7.59	---	---	---	---	---	---	---	---
MW9C	10/11/01	14.19	6.67	7.52	NLPH	<250	53,000	---	<2.5	<2.5	<2.5	<2.5
MW9C	11/01/01	14.16	Well surveyed in compliance with AB2886 requirements.									
MW9C	01/11/02	14.16	5.29	8.87	NLPH	2,470e	90,000e	---	0.90e	<0.50	<0.50	<0.50
MW9C	04/12/02	14.16	6.14	8.02	NLPH	70,400	66,800	---	<5.00	<5.00	<5.00	<5.00
MW9C	07/12/02	14.16	6.54	7.62	NLPH	50,900	58,300	---	<500	<500	<500	<500
MW9C	10/11/02	14.16	6.73	7.43	NLPH	52,100	58,800	76,000	<10.0	<10.0	<10.0	<10.0
MW9C	01/10/03	14.16	5.21	8.95	NLPH	40,600	55,500	---	<0.5	<0.5	<0.5	<0.5
MW9C	04/09/03	14.16	6.08	8.08	NLPH	24,700	29,600	---	<5.00	<5.0	<5.0	<5.0
MW9C	07/22/03	14.16	6.47	7.69	NLPH	13,800	13,100	---	1.40	<0.5	<0.5	<0.5
MW9C	10/01/03	14.16	6.62	7.54	NLPH	9,100	---	38,400	0.70	<0.5	<0.5	<0.5
MW9C	01/06/04	14.16	4.86	9.30	NLPH	4,160	---	5,020	0.70	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9C	06/07/04	14.16	7.35	6.81	NLPH	4,480	---	3,420	<0.50	<0.5	<0.5	<0.5
MW9C	08/30/04	14.16	h	h	h	1,950h	---	1,950h	<0.50h	<0.5h	<0.5h	<0.5h
MW9C	12/13/04	14.16	5.03	9.13	NLPH	610	---	705	<0.50	<0.5	<0.5	<0.5
MW9C	03/14/05	14.16	5.63	8.53	NLPH	906	---	1,110	<0.50	<0.5	<0.5	<0.5
MW9C	06/08/05	14.16	12.75	1.41	NLPH	854	---	1,100	<0.50	<0.5	<0.5	<0.5
MW9C	09/01/05	14.16	6.95	7.21	NLPH	361	---	409	<0.50	<0.50	<0.50	<0.50
MW9C	12/09/05	14.16	7.54	6.62	NLPH	217	---	171	<0.50	<0.50	<0.50	<0.50
MW9C	12/30/05	14.16	4.21	9.95	NLPH	---	---	---	---	---	---	---
MW9C	03/07/06	14.16	12.48	1.68	NLPH	320	---	480	<2.0	<2.0	<2.0	<2.0
MW9C	06/26/06	14.16	6.36	7.80	NLPH	350	---	300	<2.0	<2.0	<2.0	<2.0
MW9C	09/25/06	14.16	6.71	7.45	NLPH	136	---	234	<0.50	<0.50	<0.50	<0.50
MW9C	12/15/06	14.16	12.21	1.95	NLPH	190k	---	260	<1.0	<1.0	<1.0	<1.0
MW9C	03/29/07	14.16	12.30	1.86	NLPH	483	---	396	<0.50	<0.50	<0.50	<0.50
MW9C	**06/12/07**	**14.16**	**6.97**	**7.19**	**NLPH**	**200k**	**---**	**250**	**<1.0**	**<1.0**	**<1.0**	**<1.0**
MW9D	10/24/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9D	10/13/89	101.46 I	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9D	10/19/90	101.46 I	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	02/05/92	101.46 I	7.78	93.68	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/05/92	101.46 I	7.90	93.56	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	09/14/92	101.46 I	8.45	93.01	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	11/16/92	101.46 I	8.10	93.36	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	02/03/93	101.46 I	7.07	94.39	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/18/93	101.46 I	7.85	93.61	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	08/26/93	101.46 I	8.30	93.16	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	11/04/93	101.46 I	8.33	93.13	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	02/04/94	101.46 I	7.66	93.80	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/31/94	101.46 I	6.80	94.66	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	10/26/94	12.90	8.34	4.56	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/15/95	12.90	7.22	5.68	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	11/02/95	12.90	8.31	4.59	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	04/26/96	12.90	7.58	5.32	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	08/22/96	12.90	8.12	4.78	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9D	03/16/98	12.90	6.94	5.96	NLPH	<50	10	---	<0.5	<0.5	<0.5	<0.5
MW9D	04/21/98	12.90	7.22	5.68	NLPH	<50	12	---	<0.5	<0.5	<0.5	<0.5
MW9D	07/22/98	15.98	7.85	8.13	NLPH	<50	13	---	<0.5	<0.5	<0.5	<0.5
MW9D	12/22/98	15.98	7.58	8.40	NLPH	<50	12	---	<0.5	<0.5	<0.5	<0.5
MW9D	02/26/99	15.98	6.42	9.56	NLPH	<50	310	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/18/99	15.98	6.55	9.43	NLPH	<2,500	13,500	---	<25	<25	<25	<25
MW9D	08/03/99	15.98	8.34	7.64	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9D	12/03/99	15.98	7.56	8.42	NLPH	<50	<2	---	<0.5	<0.5	<0.5	<0.5
MW9D	02/29/00	15.98	4.82	11.16	NLPH	<50	2.5	---	<0.5	<0.5	<0.5	<0.5
MW9D	05/18/00	15.98	7.40	8.58	NLPH	<50	6.2	---	<0.5	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9D	07/24/00	15.98	7.91	8.07	NLPH	<50	14	---	<0.5	<0.5	0.85	0.74
MW9D	10/09/00	15.98	8.02	7.96	NLPH	<50	14	---	<0.5	<0.5	<0.5	<0.5
MW9D	01/10/01	15.98	7.26	8.72	NLPH	<50	18	---	<0.5	<0.5	<0.5	<0.5
MW9D	04/10/01	15.98	7.32	8.66	NLPH	<50	14	---	<0.5	<0.5	<0.5	<0.5
MW9D	07/12/01	15.98	--	--	NLPH	<50	22	---	<0.5	<0.5	<0.5	<0.5
MW9D	08/17/01 d	15.98	---	---	---	---	---	---	---	---	---	---
MW9D	10/11/01	15.98	8.16	7.82	NLPH	<50	24	---	<0.5	<0.5	<0.5	<0.5
MW9D	11/01/01	15.97	Well surveyed in compliance with AB2886 requirements.									
MW9D	01/11/02	15.97	6.64	9.33	NLPH	352e	2.0e	---	<0.50	<0.50	<0.50	<0.50
MW9D	04/12/02	15.97	7.58	8.39	NLPH	191	192	---	<0.50	<0.50	<0.50	<0.50
MW9D	07/12/02	15.97	8.01	7.96	NLPH	108	124	---	<0.5	<0.5	<0.5	<0.5
MW9D	10/11/02	15.97	8.13	7.84	NLPH	187	243	---	<0.5	<0.5	<0.5	<0.5
MW9D	01/10/03	15.97	5.98	9.99	NLPH	386	132	---	4.1	<0.5	<0.5	<0.5
MW9D	04/09/03	15.97	7.53	8.44	NLPH	468	292	---	3.80	<0.5	<0.5	<0.5
MW9D	07/22/03	15.97	7.87	8.10	NLPH	446	339	---	0.70	<0.5	<0.5	<0.5
MW9D	10/01/03	15.97	8.04	7.93	NLPH	402	---	362	<0.50	<0.5	<0.5	<0.5
MW9D	01/06/04	15.97	6.31	9.66	NLPH	72.2	---	80.9	<0.50	<0.5	<0.5	<0.5
MW9D	06/07/04	15.97	8.17	7.80	NLPH	237	---	353	<0.50	<0.5	<0.5	<0.5
MW9D	08/30/04 d	15.97	---	---	---	---	---	---	---	---	---	---
MW9D	12/13/04	15.97	5.39	10.58	NLPH	379	---	353	4.80	0.7	<0.5	0.9
MW9D	03/14/05	15.97	6.93	9.04	NLPH	<50.0	---	13.8	<0.50	<0.5	<0.5	<0.5
MW9D	06/08/05	15.97	8.83	7.14	NLPH	<50.0	---	57.2	<0.50	<0.5	<0.5	<0.5
MW9D	09/01/05	15.97	7.99	7.98	NLPH	64.3	---	51.8	<0.50	<0.50	<0.50	<0.50
MW9D	12/09/05	15.97	7.96	8.01	NLPH	56.3	---	33.0	<0.50	<0.50	<0.50	<0.50
MW9D	12/30/05 d	15.97	---	---	---	---	---	---	---	---	---	---
MW9D	03/07/06	15.97	6.19	9.78	NLPH	<50	---	9.3	<0.50	<0.50	<0.50	<0.50
MW9D	06/26/06	15.97	7.68	8.29	NLPH	<50	---	9.7	<0.50	<0.50	<0.50	<0.50
MW9D	09/25/06	15.97	8.00	7.97	NLPH	<50.0	---	13.8	<0.50	<0.50	<0.50	<0.50
MW9D	12/15/06	15.97	6.91	9.06	NLPH	<50	---	11	<0.50	<0.50	<0.50	<0.50
MW9D	03/29/07	15.97	8.53	7.44	NLPH	<50	---	6.91	<0.50	<0.50	<0.50	<0.50
MW9D	**06/12/07**	**15.97**	**8.21**	**7.76**	**NLPH**	**<50**	**---**	**9.8**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW9E	10/24/88	---	---	---	---	---	---	---	1.3	<1.0	<2.0	<1.0
MW9E	10/13/89	---	---	---	---	---	---	---	15	<0.5	2.1	<3.0
MW9E	10/19/90	---	---	---	---	<50	---	---	4.0	<0.5	0.9	<0.5
MW9E	10/01/90	Well destroyed.										
MW9F	12/06/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9F	10/13/89	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9F	10/19/90	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	02/05/92	96.96 l	5.81	91.15	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/05/92	96.96 l	5.86	91.10	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	09/14/92	96.96 l	---	---	---	---	---	---	---	---	---	---

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9F	11/16/92	96.96 l	5.82	91.14	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	02/03/93	96.96 l	5.55	91.41	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/18/93	96.96 l	5.86	91.10	---	---	---	---	---	---	---	---
MW9F	05/19/93	96.96 l	---	---	---	<50	---	---	<0.5	---	1.2	6.8
MW9F	08/26/93	96.96 l	5.86	91.10	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	11/04/93	96.96 l	5.96	91.00	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	02/04/94	96.96 l	5.68	91.28	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/31/94	96.96 l	5.76	91.20	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	10/26/94	8.37	5.96	2.41	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/15/95	8.37	5.52	2.85	---	---	---	---	<0.5	<0.5	<0.5	<0.5
MW9F	11/02/95	8.37	6.60	1.77	---	---	---	---	---	---	---	---
MW9F	04/26/96	8.37	6.50	1.87	NLPH	<50	57	---	<0.5	<0.5	<0.5	<0.5
MW9F	08/22/96	8.37	5.74	2.63	NLPH	<50	5.8	---	<0.5	<0.5	<0.5	<0.5
MW9F	02/24/97	8.37	---	---	NLPH	<50	<30	---	<0.5	<0.5	<0.5	<0.5
MW9F	03/16/98	8.37	---	---	NLPH	---	---	---	---	---	---	---
MW9F	04/21/98	8.37	---	---	---	---	---	---	---	---	---	---
MW9F	07/22/98	11.38	---	---	---	---	---	---	---	---	---	---
MW9F	12/22/98	11.38	5.47	5.91	NLPH	<50	81	---	<0.5	<0.5	<0.5	<0.5
MW9F	02/26/99	11.38	5.35	6.03	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/18/99	11.38	5.62	5.76	NLPH	<50	61.6	---	<0.5	<0.5	<0.5	<0.5
MW9F	08/03/99	11.38	6.32	5.06	NLPH	<50	3.10	---	<0.5	<0.5	<0.5	<0.5
MW9F	12/03/99	11.38	5.59	5.79	NLPH	<50	<2	---	<0.5	<0.5	0.71	<0.5
MW9F	02/29/00	11.38	4.70	6.68	NLPH	<50	52	---	<0.5	<0.5	<0.5	<0.5
MW9F	05/18/00	11.38	5.37	6.01	NLPH	<50	65	---	<0.5	<0.5	<0.5	<0.5
MW9F	07/24/00	11.38	5.65	5.73	NLPH	<50	170	---	<0.5	<0.5	<0.5	<0.5
MW9F	10/09/00	11.38	5.71	5.67	NLPH	<50	170	---	<0.5	<0.5	<0.5	<0.5
MW9F	01/10/01	11.38	4.30	7.08	NLPH	<50	140	---	<0.5	<0.5	<0.5	<0.5
MW9F	04/10/01	11.38	5.20	6.18	NLPH	<50	50	---	<0.5	<0.5	<0.5	<0.5
MW9F	07/12/01	11.38	--	--	NLPH	<50	190	---	<0.5	<0.5	<0.5	<0.5
MW9F	08/17/01 d	11.38	--	--	--	--	--	---	--	--	--	--
MW9F	10/11/01	11.38	5.82	5.56	NLPH	<50	260	---	<0.5	<0.5	<0.5	<0.5
MW9F	11/01/01	11.38	Well surveyed in compliance with AB2886 requirements.									
MW9F	01/11/02	11.38	5.12	6.26	NLPH	<100	67.0e	---	<1.00	<1.00	<1.00	<1.00
MW9F	04/12/02	11.38	5.50	5.88	NLPH	55.9	58.6	---	<0.50	<0.50	<0.50	<0.50
MW9F	07/12/02	11.38	5.65	5.73	NLPH	102	121	---	<0.5	<0.5	<0.5	<0.5
MW9F	10/11/02	11.38	5.67	5.71	NLPH	99.9	128	138	<0.5	<0.5	<0.5	<0.5
MW9F	01/10/03	11.38	5.09	6.29	NLPH	<50.0	45.5	---	<0.5	<0.5	<0.5	<0.5
MW9F	04/09/03	11.38	5.39	5.99	NLPH	<50.0	50.8	---	<0.50	<0.5	<0.5	<0.5
MW9F	07/22/03	11.38	5.52	5.86	NLPH	82.3	64.0	---	<0.50	<0.5	<0.5	<0.5
MW9F	10/01/03	11.38	5.59	5.79	NLPH	67.0	--	56.4	<0.50	<0.5	<0.5	<0.5
MW9F	01/06/04	11.38	5.21	6.17	NLPH	<50.0	--	36.7	<0.50	<0.5	<0.5	<0.5
MW9F	06/07/04	11.38	6.03	5.35	NLPH	<50.0	--	20.5	<0.50	<0.5	<0.5	<0.5
MW9F	08/30/04	11.38	h	h	h	<50.0h	--	14.0h	<0.50h	<0.5h	<0.5h	<0.5h

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9F	12/13/04	11.38	4.80	6.58	NLPH	<50.0	--	13.4	<0.50	<0.5	<0.5	<0.5
MW9F	03/14/05	11.38	5.10	6.28	NLPH	<50.0	--	4.20	<0.50	<0.5	<0.5	<0.5
MW9F	06/08/05	11.38	5.38	6.00	NLPH	<50.0	--	8.70	<0.50	<0.5	<0.5	<0.5
MW9F	09/01/05	11.38	5.53	5.85	NLPH	<50.0	---	19.6	<0.50	<0.50	<0.50	<0.50
MW9F	12/09/05 j	11.38	---	---	---	---	---	---	---	---	---	---
MW9F	12/30/05	11.38	4.81	6.57	NLPH	<50.0	---	7.01	<0.50	<0.50	<0.50	<0.50
MW9F	03/07/06 j	11.38	---	---	---	---	---	---	---	---	---	---
MW9F	06/26/06 j	11.38	---	---	---	---	---	---	---	---	---	---
MW9F	09/25/06	11.38	5.56	5.82	NLPH	<50.0	---	6.52	<0.50	<0.50	<0.50	<0.50
MW9F	12/15/06	11.38	5.10	6.28	NLPH	<50	---	7.2	<0.50	<0.50	<0.50	<0.50
MW9F	03/29/07 j	11.38	---	---	---	---	---	---	---	---	---	---
MW9F	**06/12/07 j**	**11.38**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9G	12/06/88	---	---	---	---	---	---	---	0.8	<1.0	<2.0	<1.0
MW9G	10/13/89	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9G	10/19/90	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	02/05/92	98.51 l	5.59	92.92	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	05/05/92	98.51 l	5.60	92.91	---	<50	---	---	1.5	3.8	1	4.7
MW9G	09/14/92	98.51 l	---	---	---	---	---	---	---	---	---	---
MW9G	11/16/92	98.51 l	5.78	92.73	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	02/03/93	98.51 l	5.05	93.46	---	64	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	05/18/93	98.51 l	5.62	92.89	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	08/26/93	98.51 l	5.86	92.65	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	11/04/93	98.51 l	5.96	92.55	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	02/04/94	98.51 l	5.48	93.03	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9G	05/31/94	98.51 l	5.50	93.01	---	---	---	---	---	---	---	---
MW9G	10/26/94	9.95	5.76	4.19	---	---	---	---	---	---	---	---
MW9G	05/15/95	9.95	4.88	5.07	---	---	---	---	---	---	---	---
MW9G	11/02/95	9.95	5.92	4.03	NLPH	<50	<10	---	<0.5	<0.5	<0.5	<0.5
MW9G	04/26/96	9.95	5.28	4.67	NLPH	<50	18	---	<0.5	<0.5	<0.5	<0.5
MW9G	08/22/96	9.95	5.57	4.38	NLPH	<50	18	---	<0.5	<0.5	<0.5	<0.5
MW9G	02/24/97	9.95	5.30	4.65	NLPH	<50	240	---	<0.5	0.57	<0.5	0.62
MW9G	03/16/98	9.95	---	---	---	---	---	---	---	---	---	---
MW9G	04/21/98	9.95	---	---	---	---	---	---	---	---	---	---
MW9G	07/22/98	12.99	---	---	---	---	---	---	---	---	---	---
MW9G	12/22/98	12.99	5.28	7.71	NLPH	<50	1,100	---	<0.5	<0.5	<0.5	<0.5
MW9G	02/26/99	12.99	5.31	7.68	NLPH	<50	50	---	<0.5	<0.5	<0.5	<0.5
MW9G	05/18/99	12.99	5.18	7.81	NLPH	<1,000	3,990	---	<10	<10	<10	<10
MW9G	08/03/99	12.99	6.00	6.99	NLPH	<50	1,340	---	<0.5	<0.5	<0.5	<0.5
MW9G	12/03/99	12.99	5.27	7.72	NLPH	<50	<2	---	<0.5	<0.5	<0.5	0.55 b
MW9G	02/29/00	12.99	4.60	8.39	NLPH	<50	7,900	---	<0.5	<0.5	<0.5	<0.5
MW9G	05/18/00	12.99	5.16	7.83	NLPH	<50	2,400	---	<0.5	<0.5	<0.5	<0.5
MW9G	07/24/00	12.99	5.20	7.79	NLPH	<50	1,000	---	<0.5	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9G	10/09/00	12.99	5.26	7.73	NLPH	<50	180	---	<0.5	<0.5	<0.5	<0.5
MW9G	01/10/01	12.99	5.18	7.81	NLPH	<50	1,200	---	<0.5	<0.5	<0.5	<0.5
MW9G	04/10/01	12.99	5.08	7.91	NLPH	<50	9,100	---	<0.5	<0.5	<0.5	<0.5
MW9G	07/12/01	12.99	--	--	NLPH	<50	3,000	---	<0.5	<0.5	<0.5	<0.5
MW9G	08/17/01 d	12.99	---	---	---	---	---	---	---	---	---	---
MW9G	10/11/01	12.99	5.48	7.51	NLPH	<50	1,600	---	<0.5	<0.5	<0.5	<0.5
MW9G	11/01/01	12.98	Well surveyed in compliance with AB2886 requirements.									
MW9G	01/11/02	12.98	4.97	8.01	NLPH	419e	945e	---	<0.50	<0.50	<0.50	<0.50
MW9G	04/12/02	12.98	5.12	7.86	NLPH	10,700	11,000	---	<0.50	<0.50	<0.50	<0.50
MW9G	07/12/02	12.98	5.31	7.67	NLPH	2,310	3,140	---	<0.5	<0.5	<0.5	<0.5
MW9G	10/11/02	12.98	5.39	7.59	NLPH	1,630	2,040	2,090	<0.5	<0.5	<0.5	<0.5
MW9G	01/10/03	12.98	4.90	8.08	NLPH	367	566	---	<0.5	<0.5	<0.5	<0.5
MW9G	04/09/03	12.98	5.15	7.83	NLPH	3,730	3,990	---	<0.50	<0.5	<0.5	<0.5
MW9G	07/22/03	12.98	5.30	7.68	NLPH	1,070	968	---	<0.50	<0.5	<0.5	<0.5
MW9G	10/01/03	12.98	5.41	7.57	NLPH	1,300	---	1,570	<0.50	<0.5	<0.5	<0.5
MW9G	01/06/04	12.98	4.92	8.06	NLPH	568	---	918	<0.50	<0.5	<0.5	<0.5
MW9G	06/07/04	12.98	5.49	7.49	NLPH	457	---	324	<0.50	<0.5	<0.5	<0.5
MW9G	08/30/04	12.98	h	h	h	428h	---	369h	<0.50h	<0.5h	<0.5h	<0.5h
MW9G	12/13/04	12.98	5.01	7.97	NLPH	1,030	---	1,030	<0.50	<0.5	<0.5	<0.5
MW9G	03/14/05	12.98	4.98	8.00	NLPH	395	---	451	<0.50	<0.5	<0.5	<0.5
MW9G	06/08/05	12.98	5.54	7.44	NLPH	333	---	404	<0.50	<0.5	<0.5	<0.5
MW9G	09/01/05	12.98	6.35	6.63	NLPH	218	---	308	<0.50	<0.50	<0.50	0.63
MW9G	12/09/05 j	12.98	---	---	---	---	---	---	---	---	---	---
MW9G	12/30/05	12.98	4.83	8.15	NLPH	75.3	---	69.9	<0.50	<0.50	<0.50	<0.50
MW9G	03/07/06 j	12.98	---	---	---	---	---	---	---	---	---	---
MW9G	06/26/06 j	12.98	---	---	---	---	---	---	---	---	---	---
MW9G	09/25/06	12.98	8.41	4.57	NLPH	94.5	---	180	<0.50	<0.50	<0.50	<0.50
MW9G	12/15/06	12.98	5.30	7.68	NLPH	50k	---	52	<0.50	<0.50	<0.50	<0.50
MW9G	03/29/07 j	12.98	---	---	---	---	---	---	---	---	---	---
MW9G	**06/12/07 j**	**12.98**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9H	12/06/88	---	---	---	---	---	---	---	<0.5	<1.0	<2.0	<1.0
MW9H	10/13/89	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<3.0
MW9H	10/19/90	---	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	02/05/92	97.14 l	7.70	89.44	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	05/05/92	97.14 l	8.12	89.02	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	09/14/92	97.14 l	---	---	---	---	---	---	---	---	---	---
MW9H	11/16/92	97.14 l	---	---	---	---	---	---	---	---	---	---
MW9H	02/03/93	97.14 l	7.72	89.42	---	280	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	05/18/93	97.14 l	8.12	89.02	---	<50	---	---	<0.5	<0.5	1.1	6.4
MW9H	08/26/93	97.14 l	8.14	89.00	---	<50	---	---	0.8	<0.5	<0.5	<0.5
MW9H	11/04/93	97.14 l	8.15	88.99	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	02/04/94	97.14 l	7.98	89.16	---	<50	---	---	<0.5	<0.5	<0.5	<0.5

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9H	05/31/94	97.14 l	8.80	88.34	---	<50	---	---	0.92	1.1	<0.5	0.86
MW9H	10/26/94	8.58	8.12	0.46	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	05/15/95	8.58	7.88	0.70	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9H	11/02/95	8.58	8.40	0.18	NLPH	<50	<10	---	<0.5	<0.5	<0.5	<0.5
MW9H	04/26/96	8.58	8.05	0.53	NLPH	---	---	---	---	---	---	---
MW9H	08/22/96	8.58	8.17	0.41	NLPH	---	---	---	---	---	---	---
MW9H	02/24/97	8.58	---	---	---	---	---	---	---	---	---	---
MW9H	03/16/98	8.58	---	---	---	---	---	---	---	---	---	---
MW9H	04/21/98	8.58	---	---	---	---	---	---	---	--	---	---
MW9H	07/22/98	11.61	---	---	---	---	---	---	---	---	---	---
MW9H	12/22/98	11.61	7.81	3.80	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9H	02/26/99	11.61	7.61	4.00	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9H	05/18/99	11.61	8.00	3.61	NLPH	<50	3.98	---	<0.5	<0.5	<0.5	<0.5
MW9H	08/03/99	11.61	6.05	5.56	NLPH	<50	<2.5	---	<0.5	<0.5	<0.5	<0.5
MW9H	12/03/99	11.61	5.32	6.29	NLPH	<50	<2	---	<0.5	<0.5	<0.5	0.57 b
MW9H	02/29/00	11.61	7.10	4.51	NLPH	<50	<2	---	<0.5	<0.5	<0.5	<0.5
MW9H	05/18/00	11.61	7.84	3.77	NLPH	<50	9.7	---	<0.5	<0.5	<0.5	<0.5
MW9H	07/24/00	11.61	7.94	3.67	NLPH	<50	17	---	<0.5	<0.5	<0.5	<0.5
MW9H	10/09/00	11.61	8.09	3.52	NLPH	<50	13	---	<0.5	<0.5	<0.5	1.1
MW9H	01/10/01	11.61	7.89	3.72	NLPH	<50	11	---	<0.5	<0.5	<0.5	0.5
MW9H	04/10/01	11.61	8.71	2.90	NLPH	<50	44	---	<0.5	0.78	0.52	2.36
MW9H	07/12/01	11.61	--	--	NLPH	<50	28	---	<0.5	<0.5	<0.5	<0.5
MW9H	08/17/01 d	11.61	---	---	---	---		---	---	---	---	---
MW9H	10/11/01	11.61	8.15	3.46	NLPH	<50	30	---	<0.5	<0.5	<0.5	<0.5
MW9H	11/01/01	11.59	Well surveyed in compliance with AB2886 requirements.									
MW9H	01/11/02	11.59	7.48	4.11	NLPH	<50.0	20.5e	---	<0.50	<0.50	<0.50	<0.50
MW9H	04/12/02	11.59	7.68	3.91	NLPH	<50.0	32.8	---	<0.50	<0.50	<0.50	<0.50
MW9H	07/12/02	11.59	8.06	3.53	NLPH	<50.0	34.6	---	<0.5	<0.5	<0.5	<0.5
MW9H	10/11/02	11.59	7.83	3.76	NLPH	<50.0	33.1	28.7	<0.5	<0.5	<0.5	<0.5
MW9H	01/10/03	11.59	7.39	4.20	NLPH	<50.0	16.0	---	0.5	0.8	0.6	1.8
MW9H	04/09/03	11.59	7.69	3.90	NLPH	<50.0	26.8	---	<0.50	<0.5	<0.5	<0.5
MW9H	07/22/03	11.59	7.94	3.65	NLPH	55.3	34.7	---	<0.50	<0.5	<0.5	<0.5
MW9H	10/01/03	11.59	7.93	3.66	NLPH	<50.0	---	32.3	<0.50	<0.5	<0.5	0.9
MW9H	01/06/04	11.59	7.27	4.32	NLPH	<50.0	---	10	<0.50	<0.5	<0.5	<0.5
MW9H	06/07/04	11.59	7.99	3.60	NLPH	50.6	---	71.7	<0.50	<0.5	<0.5	<0.5
MW9H	08/30/04	11.59	h	h	h	64.2h	---	51.0h	<0.50h	<0.5h	<0.50h	<0.5h
MW9H	12/13/04	11.59	7.22	4.37	NLPH	<50.0	---	14.0	<0.50	<0.5	0.5	1.2
MW9H	03/14/05	11.59	6.96	4.63	NLPH	<50.0	---	27.4	<0.50	<0.5	<0.5	<0.5
MW9H	06/08/05	11.59	7.53	4.06	NLPH	52.6	---	68.8	<0.50	<0.5	<0.5	<0.5
MW9H	09/01/05	11.59	7.82	3.77	NLPH	140	---	71.6	<0.50	<0.50	<0.50	<0.50
MW9H	12/09/05 j	---	---	---	---	---	---	---	---	---	---	---
MW9H	12/30/05	11.59	7.27	4.32	NLPH	<50.0	---	13.7	<0.50	<0.50	<0.50	<0.50

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9H	03/07/06 j	11.59	---	---	---	---	---	---	---	---	---	---
MW9H	06/26/06 j	11.59	---	---	---	---	---	---	---	---	---	---
MW9H	09/25/06	11.59	7.96	3.63	NLPH	59.5	---	71.0	<0.50	<0.50	<0.50	<0.50
MW9H	12/15/06	11.59	7.42	4.17	NLPH	57	---	21	<0.50	<0.50	<0.50	<0.50
MW9H	03/29/07 j	11.59	---	---	---	---	---	---	---	---	---	---
MW9H	**06/12/07 j**	**11.59**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9I	11/15/90	---	---	---	---	55	---	---	4.0	1.1	1.2	2.2
MW9I	02/05/92	98.66 l	5.56	93.10	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	05/05/92	98.66 l	5.60	93.06	---	<50	---	---	0.9	<0.5	<0.5	0.7
MW9I	09/14/92	98.66 l	6.12	92.54	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	11/16/92	98.66 l	5.82	92.84	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	02/03/93	98.66 l	4.92	93.74	---	240	---	---	46	1.1	2.3	2.1
MW9I	05/18/93	98.66 l	5.60	93.06	---	79	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	08/26/93	98.66 l	5.91	92.75	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	11/04/93	98.66 l	6.03	92.63	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	02/04/94	98.66 l	5.37	93.29	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	05/31/94	98.66 l	5.46	93.20	---	240	---	---	0.66	0.63	<0.5	1.4
MW9I	10/26/94	10.11	5.88	4.23	---	150	---	---	<0.5	<0.5	<0.5	<0.5
MW9I	05/15/95	10.11	4.94	5.17	---	56	---	---	<0.5	0.82	<0.5	<0.5
MW9I	11/02/95	10.11	6.04	4.07	NLPH	<50	<10	---	<0.5	<0.5	<0.5	<0.5
MW9I	04/26/96	10.11	5.27	4.84	NLPH	<50	99	---	<0.5	<0.5	<0.5	<0.5
MW9I	08/22/96	10.11	5.66	4.45	NLPH	<50	170	---	<0.5	<0.5	<0.5	<0.5
MW9I	02/24/97	10.11	5.24	4.87	NLPH	120	9,100	---	<0.5	<0.5	<0.5	<0.5
MW9I	03/16/98	10.11	4.91	5.20	NLPH	<200	59,000	---	13	<2.0	<2.0	<2.0
MW9I	04/21/98	10.11	5.08	5.03	NLPH	<500	59,000	---	<5.0	<5.0	<5.0	<5.0
MW9I	07/22/98	13.14	5.44	7.70	NLPH	<500	62,000	---	<5.0	<5.0	<5.0	<5.0
MW9I	12/22/98	13.14	5.32	7.82	NLPH	200	51,000	---	1.7	<0.5	<0.5	<0.5
MW9I	02/26/99	13.14	4.71	8.43	NLPH	<500	9,700	---	<5.0	<5.0	<5.0	<5.0
MW9I	05/18/99	13.14	5.30	7.84	NLPH	<1,000	3,730	---	<10	<10	<10	<10
MW9I	08/03/99	13.14	5.98	7.16	NLPH	<50	21,900	---	<0.5	0.650	<0.5	<0.5
MW9I	12/03/99	13.14	5.31	7.83	NLPH	<250	2,000	---	3.9	2.9	<2.5	14
MW9I	02/29/00	13.14	4.20	8.94	NLPH	50	16,000	---	0.74	<0.5	<0.5	<0.5
MW9I	05/18/00	13.14	5.12	8.02	NLPH	<50	2,900	---	<0.5	<0.5	<0.5	<0.5
MW9I	07/24/00	13.14	5.41	7.73	NLPH	<250	43,000	---	<2.5	<2.5	<2.5	<2.5
MW9I	10/09/00	13.14	5.41	7.73	NLPH	<2,500	54,000	---	1.6	<0.5	<0.5	<0.5
MW9I	01/10/01	13.14	5.24	7.90	NLPH	<250	36,000	---	<2.5	<2.5	<2.5	<2.5
MW9I	04/10/01	13.14	4.84	8.30	NLPH	<50	4,800	---	<0.5	<0.5	<0.5	<0.5
MW9I	07/12/01	13.14	---	---	NLPH	<50	8,400	---	<0.5	<0.5	<0.5	<0.5
MW9I	08/17/01	13.14	6.49	6.65	---	---	---	---	---	---	---	---
MW9I	10/11/01	13.14	5.64	7.50	NLPH	<250	38,000	---	<2.5	<2.5	<2.5	<2.5
MW9I	11/01/01	13.13	Well surveyed in compliance with AB2886 requirements.									
MW9I	01/11/02	13.13	4.80	8.33	NLPH	1,330e	5,400e	---	4.80e	<0.50	<0.50	<0.50

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	TOC (feet)	DTW (feet)	GW Elev. (feet)	SUBJ	TPHg (µg/L)	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW9I	04/12/02	13.13	5.22	7.91	NLPH	1,460	1,480	---	<0.50	<0.50	<0.50	<0.50
MW9I	07/12/02	13.13	5.50	7.63	NLPH	4,460	6,490	---	<0.5	<0.5	<0.5	<0.5
MW9I	10/11/02	13.13	5.35	7.78	NLPH	31,300	37,700	51,000	<5.0	<5.0	<5.0	<5.0
MW9I	01/10/03	13.13	4.75	8.38	NLPH	4,820	6,180	---	9.4	0.7	1.1	1.3
MW9I	04/09/03	13.13	5.15	7.98	NLPH	2,130	1,510	---	22.3	1.9	1.5	1.5
MW9I	07/22/03	13.13	5.50	7.63	NLPH	2,330	2,540	---	1.60	<0.5	<0.5	<0.5
MW9I	10/01/03	13.13	5.65	7.48	NLPH	6,080	---	4,610	1.00	<0.5	<0.5	<0.5
MW9I	01/06/04	13.13	4.50	8.63	NLPH	175	---	61.3	0.90	<0.5	0.5	<0.5
MW9I	06/07/04	13.13	6.87	6.26	NLPH	4,620	---	3,410	<0.50	<0.5	<0.5	<0.5
MW9I	08/30/04	13.13	h	h	h	817h	---	847h	<0.50h	<0.5h	<0.5h	<0.5h
MW9I	12/13/04	13.13	4.47	8.66	NLPH	<50.0	---	14.4	<0.50	<0.5	<0.5	<0.5
MW9I	03/14/05	13.13	5.05	8.08	NLPH	96.7	---	44.9	<0.50	<0.5	<0.5	<0.5
MW9I	06/08/05	13.13	6.47	6.66	NLPH	1,230	---	321	<0.50	<0.5	<0.5	0.8
MW9I	09/01/05	13.13	5.60	7.53	NLPH	170	---	62.3	1.22	0.77	<0.50	<0.50
MW9I	12/09/05	13.13	6.82	6.31	NLPH	78.3	---	81.0	<0.50	0.58	<0.50	<0.50
MW9I	12/30/05	13.13	4.23	8.90	NLPH	---	---	---	---	---	---	---
MW9I	03/07/06	13.13	5.08	8.05	NLPH	<50	---	0.96	<0.50	<0.50	<0.50	<0.50
MW9I	06/26/06	13.13	5.30	7.83	NLPH	<50	---	3.7	<0.50	<0.50	<0.50	<0.50
MW9I	09/25/06	13.13	6.17	6.96	NLPH	50.9	---	24.0	<0.50	<0.50	<0.50	<0.50
MW9I	12/15/06	13.13	5.45	7.68	NLPH	<50	---	0.59	<0.50	<0.50	<0.50	<0.50
MW9I	03/29/07	13.13	6.35	6.78	NLPH	<50	---	1.15	<0.50	<0.50	<0.50	0.62
MW9I	**06/12/07**	**13.13**	**5.87**	**7.26**	**NLPH**	**<50**	**---**	**0.53**	**<0.50**	**<0.50**	**<0.50**	**<0.50**

TABLE 3A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Notes:		
SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8021B	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
MTBE 8260B	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane 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.
<	=	Less than the indicated reporting limit shown by the laboratory.
---	=	Not measured/Not sampled/Not analyzed.
a	=	Miscalculation in field. Field technician may have inadvertently monitored and sampled the wrong well. Resampled 05/27/99.
b	=	Analyte detected in the trip blank and/or bailer blank.
c	=	Due to measurement error during initial sampling event, DTW was re-measured on 08/17/01. Samples were not taken.
d	=	Well inaccessible.
e	=	Samples collected after fourth quarter 2001 analyzed by TestAmerica, Incorporated. Reported concentrations may be affected by differing laboratory quantitation methods.
f	=	Sample erroneously labeled MA9B on Chain-of-Custody form and laboratory report.
g	=	Insufficient sample volume to perform analyses.
h	=	Groundwater elevation data invalidated; analytical results suspect.
i	=	Well sampled using no-purge method.
j	=	Well not gauged and/or sampled due to encroachment permit restrictions.
k	=	Hydrocarbon result partly due to individual peak(s) in quantitation range.
l	=	Elevation relative to temporary benchmark with an arbitrary elevation of 100.0 feet.

TABLE 3B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW9A	06/13/88 - 07/12/02	Not analyzed for these analytes.						
MW9A	10/11/02	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9A	01/10/03	---	---	---	---	---	---	---
MW9A	04/09/03	---	---	---	---	---	---	---
MW9A	07/22/03	---	---	---	---	---	---	---
MW9A	10/01/03	<0.50	2.80	1,100	<0.50	<0.50	<0.50	---
MW9A	01/06/04	<0.50	4.90	11,900	<0.50	<0.50	<0.50	---
MW9A	06/07/04	---	---	---	---	---	---	<2,500
MW9A	08/30/04 d	---	---	---	---	---	---	---
MW9A	12/13/04	---	---	---	---	---	---	---
MW9A	03/14/05	<0.50	1.00	14,400	<0.50	<0.50	<0.50	<50.0
MW9A	06/08/05	<0.50	<0.50	22,400	<0.50	<0.50	<0.50	<100
MW9A	09/01/05	---	---	---	---	---	---	---
MW9A	12/09/05	---	---	---	---	---	---	---
MW9A	12/30/05	---	---	---	---	---	---	---
MW9A	03/07/06	<5.0	<5.0	5,600	<5.0	<5.0	<5.0	<1,000
MW9A	06/26/06	---	---	---	---	---	---	<1,000
MW9A	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	<50.0
MW9A	12/15/06	<5.0	<5.0	1,200	<5.0	<5.0	<5.0	<1,000
MW9A	03/29/07	<0.500	<0.500	297	<0.500	<0.500	<0.500	<50.0
MW9A	**06/12/07**	**<0.50**	**<0.50**	**160**	**<0.50**	**<0.50**	**<0.50**	**<100**
MW9B	06/13/88 - 07/12/02	Not analyzed for these analytes.						
MW9B	10/11/02 f	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9B	01/10/03	---	---	---	---	---	---	---
MW9B	04/09/03	---	---	---	---	---	---	---
MW9B	07/22/03	---	---	---	---	---	---	---
MW9B	10/01/03	<0.50	9.70	2,430	<0.50	<0.50	<0.50	---
MW9B	01/06/04	0.80	9.00	11,500	<0.50	<0.50	<0.50	---
MW9B	06/07/04	---	---	---	---	---	---	<50.0
MW9B	08/30/04	---	---	---	---	---	---	<50.0j
MW9B	12/13/04	---	---	---	---	---	---	---
MW9B	03/14/05	<0.50	<0.50	4,800	<0.50	<0.50	<0.50	<50.0
MW9B	06/08/05	<0.50	<0.50	2,320	<0.50	<0.50	<0.50	<100
MW9B	09/01/05	---	---	---	---	---	---	---
MW9B	12/09/05	---	---	---	---	---	---	---
MW9B	12/30/05	---	---	---	---	---	---	---
MW9B	03/07/06	<0.50	<0.50	1,200	<0.50	<0.50	<0.50	---
MW9B	06/26/06	---	---	---	---	---	---	---
MW9B	09/25/06	<0.500	<0.500	70.1	<0.500	<0.500	<0.500	---
MW9B	12/15/06	<0.50	<0.50	56	<0.50	<0.50	<0.50	---

TABLE 3B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW9B	03/29/07	<0.500	<0.500	734	<0.500	<0.500	<0.500	---
MW9B	**06/12/07**	**<0.50**	**<0.50**	**270**	**<0.50**	**<0.50**	**<0.50**	**---**
MW9C	06/13/88 - 07/12/02	Not analyzed for these analytes.						
MW9C	10/11/02	<0.50	34.3	<10.0	<0.50	<0.50	<0.50	---
MW9C	01/10/03	---	---	---	---	---	---	---
MW9C	04/09/03	---	---	---	---	---	---	---
MW9C	07/22/03	---	---	---	---	---	---	---
MW9C	10/01/03	<0.50	2.70	38,400	<0.50	<0.50	<0.50	---
MW9C	01/06/04	0.80	2.50	90,700	<0.50	<0.50	<0.50	---
MW9C	06/07/04	---	---	---	---	---	---	<50.0
MW9C	08/30/04	---	---	---	---	---	---	<50.0j
MW9C	12/13/04	---	---	---	---	---	---	---
MW9C	03/14/05	<0.50	<0.50	674	<0.50	<0.50	<0.50	<50.0
MW9C	06/08/05	<0.50	<0.50	817	<0.50	<0.50	<0.50	<100
MW9C	09/01/05	---	---	---	---	---	---	---
MW9C	12/09/05	---	---	---	---	---	---	---
MW9C	12/30/05	---	---	---	---	---	---	---
MW9C	03/07/06	<2.5	<2.5	160	<2.5	<2.5	<2.5	---
MW9C	06/26/06	---	---	---	---	---	---	---
MW9C	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9C	12/15/06	<2.5	<2.5	<60	<2.5	<2.5	<2.5	---
MW9C	03/29/07	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9C	**06/12/07**	**<2.5**	**<2.5**	**<100**	**<2.5**	**<2.5**	**<2.5**	**---**
MW9D	10/24/88 - 07/12/02	Not analyzed for these analytes.						
MW9D	10/11/02 g	---	---	---	---	---	---	---
MW9D	01/10/03	---	---	---	---	---	---	---
MW9D	04/09/03	---	---	---	---	---	---	---
MW9D	07/22/03	---	---	---	---	---	---	---
MW9D	10/01/03	<0.50	<0.50	235	<0.50	<0.50	<0.50	---
MW9D	01/06/04	<0.50	<0.50	51.8	<0.50	<0.50	<0.50	---
MW9D	06/07/04	---	---	---	---	---	---	<50.0
MW9D	08/30/04 h	---	---	---	---	---	---	---
MW9D	12/13/04	---	---	---	---	---	---	---
MW9D	03/14/05	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
MW9D	06/08/05	<0.50	<0.50	57.8	<0.50	<0.50	<0.50	<100
MW9D	09/01/05	---	---	---	---	---	---	---
MW9D	12/09/05	---	---	---	---	---	---	---
MW9D	12/30/05 d	---	---	---	---	---	---	---
MW9D	03/07/06	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	---
MW9D	06/26/06	---	---	---	---	---	---	---
MW9D	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---

TABLE 3B

ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW9D	12/15/06	<0.50	<0.50	<12	<0.50	<0.50	<0.50	---
MW9D	03/29/07	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9D	**06/12/07**	**<0.50**	**<0.50**	**<20**	**<0.50**	**<0.50**	**<0.50**	**---**
MW9E	10/24/88 - 10/19/90	Not analyzed for these analytes.						
MW9E	10/01/90	Well destroyed.						
MW9F	12/06/88 - 07/12/02	Not analyzed for these analytes.						
MW9F	10/11/02	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9F	01/10/03	---	---	---	---	---	---	---
MW9F	04/09/03	---	---	---	---	---	---	---
MW9F	07/22/03	---	---	---	---	---	---	---
MW9F	10/01/03	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9F	01/06/04	<0.50	<0.50	13.7	<0.50	<0.50	<0.50	---
MW9F	06/07/04	---	---	---	---	---	---	<50.0
MW9F	08/30/04	---	---	---	---	---	---	<50.0j
MW9F	12/13/04	---	---	---	---	---	---	---
MW9F	03/14/05	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
MW9F	06/08/05	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<100
MW9F	09/01/05	---	---	---	---	---	---	---
MW9F	12/09/05 j	---	---	---	---	---	---	---
MW9F	12/30/05	---	---	---	---	---	---	---
MW9F	03/07/06 j	---	---	---	---	---	---	---
MW9F	06/26/06 j	---	---	---	---	---	---	---
MW9F	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9F	12/15/06	<0.50	<0.50	<20	<0.50	<0.50	<0.50	---
MW9F	03/29/07 j	---	---	---	---	---	---	---
MW9F	**06/12/07 j**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9G	12/06/88 - 07/12/02	Not analyzed for these analytes.						
MW9G	10/11/02	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9G	01/10/03	---	---	---	---	---	---	---
MW9G	04/09/03	---	---	---	---	---	---	---
MW9G	07/22/03	---	---	---	---	---	---	---
MW9G	10/01/03	<0.50	<0.50	17.1	<0.50	<0.50	<0.50	---
MW9G	01/06/04	<0.50	<0.50	367	<0.50	<0.50	<0.50	---
MW9G	06/07/04	---	---	---	---	---	---	<50.0
MW9G	08/30/04	---	---	---	---	---	---	<50.0j
MW9G	12/13/04	---	---	---	---	---	---	---
MW9G	03/14/05	<0.50	<0.50	569	<0.50	<0.50	<0.50	<50.0
MW9G	06/08/05	<0.50	<0.50	150	<0.50	<0.50	<0.50	<100
MW9G	09/01/05	---	---	---	---	---	---	---
MW9G	12/09/05 j	---	---	---	---	---	---	---

TABLE 3B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

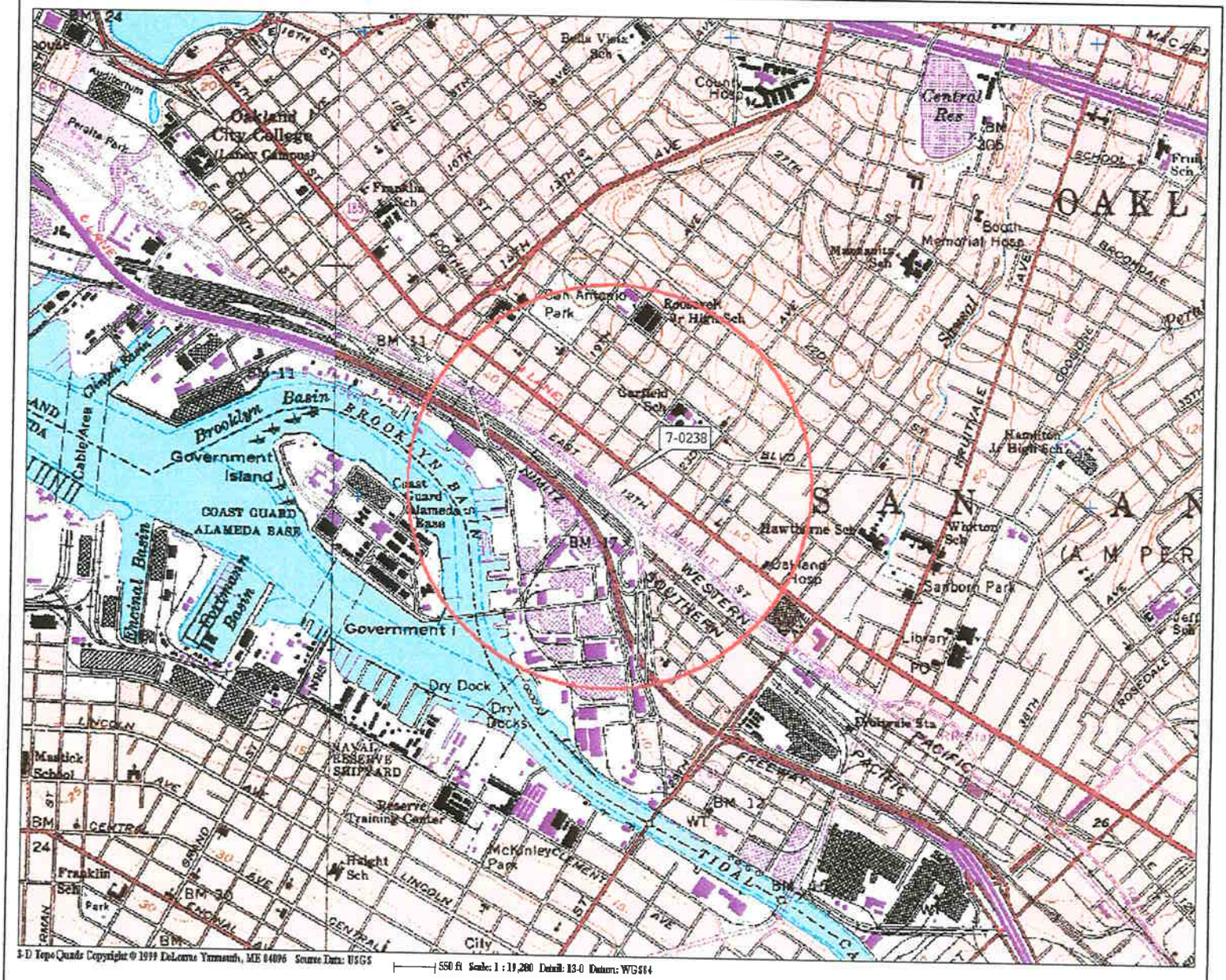
Well ID	Sampling Date	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW9G	12/30/05	---	---	---	---	---	---	---
MW9G	03/07/06 j	---	---	---	---	---	---	---
MW9G	06/26/06 j	---	---	---	---	---	---	---
MW9G	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9G	12/15/06	<0.50	<0.50	<12	<0.50	<0.50	<0.50	---
MW9G	03/29/07 j	---	---	---	---	---	---	---
MW9G	**06/12/07 j**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9H	12/06/88 - 10/19/90 Not analyzed for these analytes.							
MW9H	11/02/95	---	---	---	<50	<10	<0.5	<0.5
MW9H	04/26/96 - 07/12/02 Not analyzed for these analytes.							
MW9H	10/11/02	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9H	01/10/03	---	---	---	---	---	---	---
MW9H	04/09/03	---	---	---	---	---	---	---
MW9H	07/22/03	---	---	---	---	---	---	---
MW9H	10/01/03	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9H	01/06/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	---
MW9H	06/07/04	---	---	---	---	---	---	<50.0
MW9H	08/30/04	---	---	---	---	---	---	<50.0j
MW9H	12/13/04	---	---	---	---	---	---	---
MW9H	03/14/05	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
MW9H	06/08/05	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<100
MW9H	09/01/05	---	---	---	---	---	---	---
MW9H	12/09/05 j	---	---	---	---	---	---	---
MW9H	12/30/05	---	---	---	---	---	---	---
MW9H	03/07/06 j	---	---	---	---	---	---	---
MW9H	06/26/06 j	---	---	---	---	---	---	---
MW9H	09/25/06	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---
MW9H	12/15/06	<0.50	<0.50	<12	<0.50	<0.50	<0.50	---
MW9H	03/29/07 j	---	---	---	---	---	---	---
MW9H	**06/12/07 j**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW9I	11/15/90 - 07/12/02 Not analyzed for these analytes.							
MW9I	10/11/02	<0.50	24.1	<10.0	<0.50	<0.50	<0.50	---
MW9I	01/10/03	---	---	---	---	---	---	---
MW9I	04/09/03	---	---	---	---	---	---	---
MW9I	07/22/03	---	---	---	---	---	---	---
MW9I	10/01/03	<0.50	1.50	30,300	<0.50	<0.50	<0.50	---
MW9I	01/06/04	<0.50	<0.50	377	<0.50	<0.50	<0.50	---
MW9I	06/07/04	---	---	---	---	---	---	<50.0
MW9I	08/30/04	---	---	---	---	---	---	<50.0j
MW9I	12/13/04	---	---	---	---	---	---	---
MW9I	03/14/05	<0.50	<0.50	1,640	<0.50	<0.50	<0.50	<50.0

TABLE 3B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID	Sampling Date	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
MW9I	06/08/05	<0.50	<0.50	47,000	<0.50	<0.50	<0.50	<100
MW9I	09/01/05	---	---	---	---	---	---	---
MW9I	12/09/05	---	---	---	---	---	---	---
MW9I	12/30/05	---	---	---	---	---	---	---
MW9I	03/07/06	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<100
MW9I	06/26/06	---	---	---	---	---	---	<100
MW9I	09/25/06	<0.500	<0.500	10,300	<0.500	<0.500	<0.500	<50.0
MW9I	12/15/06	<0.50	<0.50	730	<0.50	<0.50	<0.50	<100
MW9I	03/29/07	<0.500	<0.500	632	<0.500	<0.500	<0.500	<50.0
MW9I	**06/12/07**	**<0.50**	**<0.50**	**140**	**<0.50**	**<0.50**	**<0.50**	**---**

Notes:

SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8021B	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
MTBE 8260B	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane 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.
<	=	Less than the indicated reporting limit shown by the laboratory.
---	=	Not measured/Not sampled/Not analyzed.
a	=	Miscalculation in field. Field technician may have inadvertently monitored and sampled the wrong well. Resampled 05/27/99.
b	=	Analyte detected in the trip blank and/or bailer blank.
c	=	Due to measurement error during initial sampling event, DTW was re-measured on 08/17/01. Samples were not taken.
d	=	Well inaccessible.
e	=	Samples collected after fourth quarter 2001 analyzed by TestAmerica, Incorporated. Reported concentrations may be affected by differing laboratory quantitation methods.
f	=	Sample erroneously labeled MA9B on Chain-of-Custody form and laboratory report.
g	=	Insufficient sample volume to perform analyses.
h	=	Groundwater elevation data invalidated; analytical results suspect.
i	=	Well sampled using no-purge method.
j	=	Well not gauged and/or sampled due to encroachment permit restrictions.
k	=	Hydrocarbon result partly due to individual peak(s) in quantitation range.
l	=	Elevation relative to temporary benchmark with an arbitrary elevation of 100.0 feet.



FN 2293TOPO

J:\2293\2293topo.dwg, mkjones

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

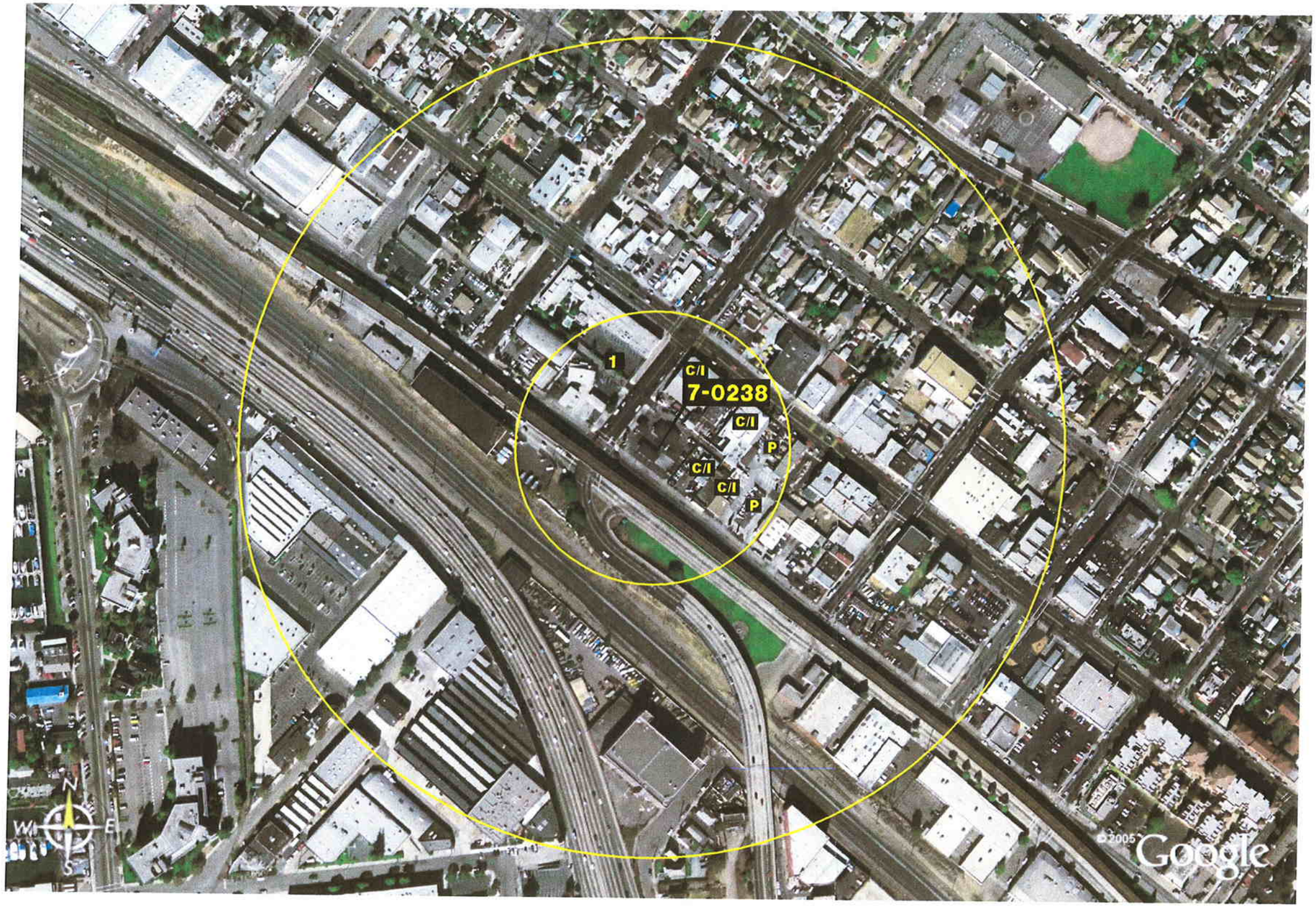
SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads

ERI
VALUE, QUALITY, RESPONSE

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

PROJECT NO.
2293
PLATE
1



FN 2293 07 W02 AERIAL_SP

J:\2293\SPECIALTY MAPS\W02\07 W02 AERIA_SP.dwg, mkjones

LEGEND

- C/I — Commericial / Industrial
- VAC — Vacant Lot
- P — Parking Lot
- R — Additional Residential

WELLS

1

There are no public or private wells within a 300-Meter radius. See the Regional Area Map.

WELLS (SPECIAL USE OR MUNICIPAL)

1

RESIDENCES

1 None

PUBLIC USE AREAS

1 Life Academy High School

SURFACE WATER

1 None

100-Meter and 300-Meter Radius

APPROXIMATE SCALE

0 80 160 METERS

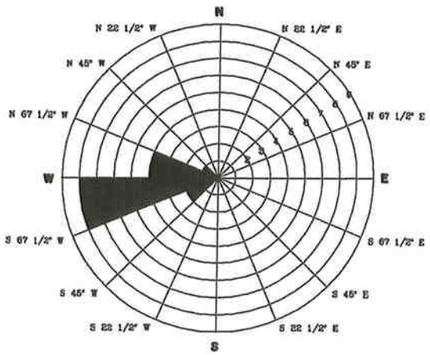
LOCAL AREA MAP

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

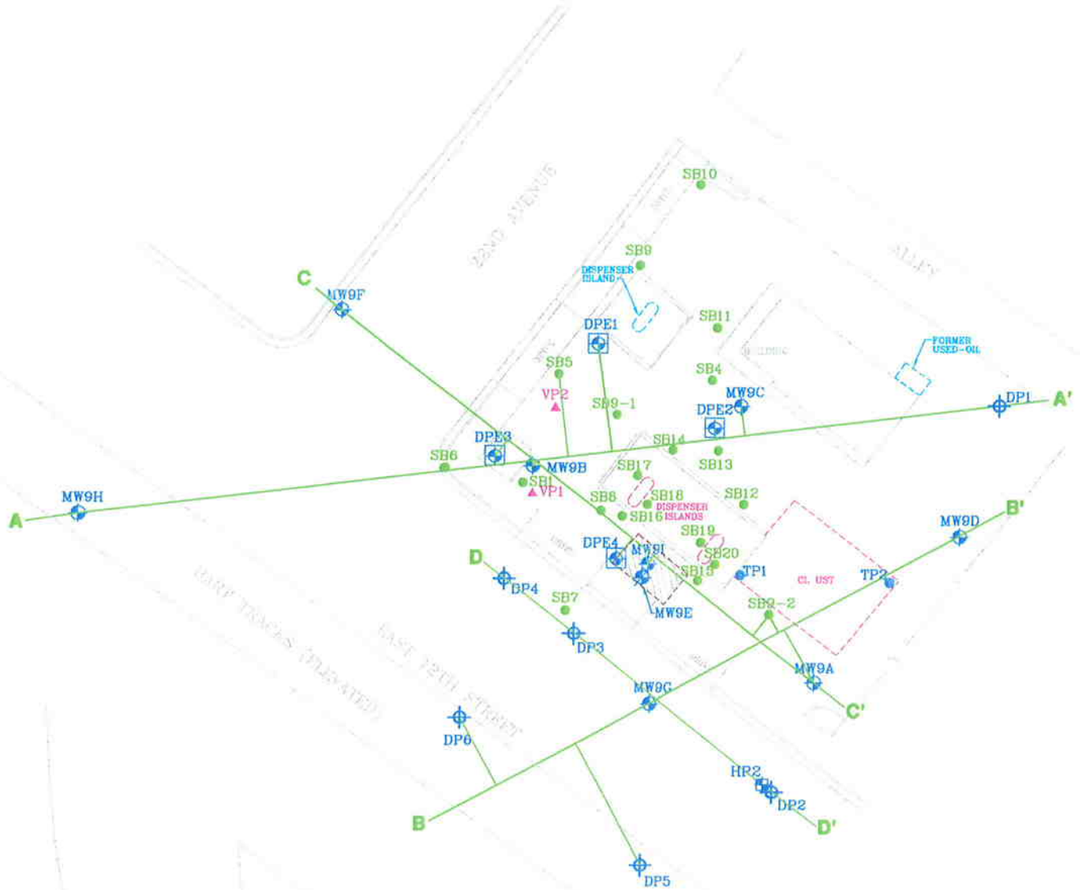
ERI
VALUE, QUALITY, RESPONSE

PROJECT NO. 2293

PLATE 2



GROUNDWATER FLOW DIRECTION ROSE DIAGRAM
January 10, 2003 – December 15, 2006



SOURCE:
Modified from a map provided by Morrow Surveying

APPROXIMATE SCALE

0 50 100 Feet

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 GSP_SP.dwg, mkjones

FN 2293 07 R24_SP

ERI
VALUE. QUALITY. RESPONSE

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

- MW9I — Groundwater Monitoring Well
- TP2 — Observation Well
- DPE4 — Dual-Phase Extraction Well
- VP2 — Soil Vapor Extraction Well
- SB11 — Soil Boring
- MW9E — Destroyed Groundwater Monitoring Well
- DP6 — Direct-Push Boring
- HP2 — Hydropunch Boring
- Excavation
- C C' — Cross Section Locations

NOTE:
Former Groundwater Monitoring Well MW9E was in the current location of MW9I.

PROJECT NO. 2293

PLATE 3

Analyte Concentrations in mg/kg

8/30/07	Date Sampled
19.5 FT.	Sample Depth
<0.50	Total Petroleum Hydrocarbons as gasoline
<5.0	Benzene
0.980	Methyl Tertiary Butyl Ether
0.055	Tertiary Butyl Alcohol
<	Less Than the Stated Laboratory Reporting Limit
mg/kg	Milligrams per kilogram

8/21/07	8/31/07				
5 FT.	10 FT.	20 FT.	25 FT.	30 FT.
<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
<0.050	<0.050	<0.050	<0.050	<0.050

8/22/07	8/30/07				
5 FT.	10 FT.	14.5 FT.	19.5 FT.	25	29.5 FT.
<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
0.0081	<0.0050	<0.0050	0.990	<0.0050	<0.0050
<0.050	<0.050	<0.050	0.055	<0.050	<0.050

8/20/07	8/29/07				
5 FT.	10 FT.	14.5 FT.	19.5 FT.	25.5 FT.	29.5 FT.
<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
<0.0050	<0.0050	0.660	<0.0050	<0.0050	<0.0050
<0.050	<0.050	1.300	<0.050	<0.050	<0.050

8/20/07	8/28/07				
5 FT.	10 FT.	15 FT.	20 FT.	25 FT.	29.5 FT.
<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
<0.0050	<0.0050	0.016	<0.0050	<0.0050	<0.0050
<0.050	<0.050	0.940	<0.050	<0.050	<0.050

8/20/07	8/27/07				
5 FT.	10.5 FT.	15 FT.	20 FT.	25 FT.	29.5 FT.
<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
<0.0050	<0.0050	0.0058	0.0068	<0.0050	<0.0050
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

8/22/07	9/5/07				
5 FT.	10 FT.	14.5 FT.	20 FT.	25 FT.	29.5 FT.
<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
0.0066	<0.0050	<0.0050	0.0078	<0.0050	<0.0050
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

SOURCE:
Modified from a map provided by Morrow Surveying

APPROXIMATE SCALE

0 50 100 Feet

FN 2293 07 R24 SAR_SP

J:\2293\SPECIALITY MAPS\R24\07 R24 SAR_SP.dwg, mkjones

ERI
VALUE, QUALITY, RESPONSE

SELECT SOIL ANALYTICAL RESULTS

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

- MW9I — Groundwater Monitoring Well
- TP2 — Observation Well
- DPE4 — Dual-Phase Extraction Well
- VP2 — Soil Vapor Extraction Well
- MW9E — Destroyed Groundwater Monitoring Well
- DP6 — Direct-Push Boring
- HP6 — Hydropunch Boring

NOTE:
Former Groundwater Monitoring Well MW9E was in the current location of MW9I.

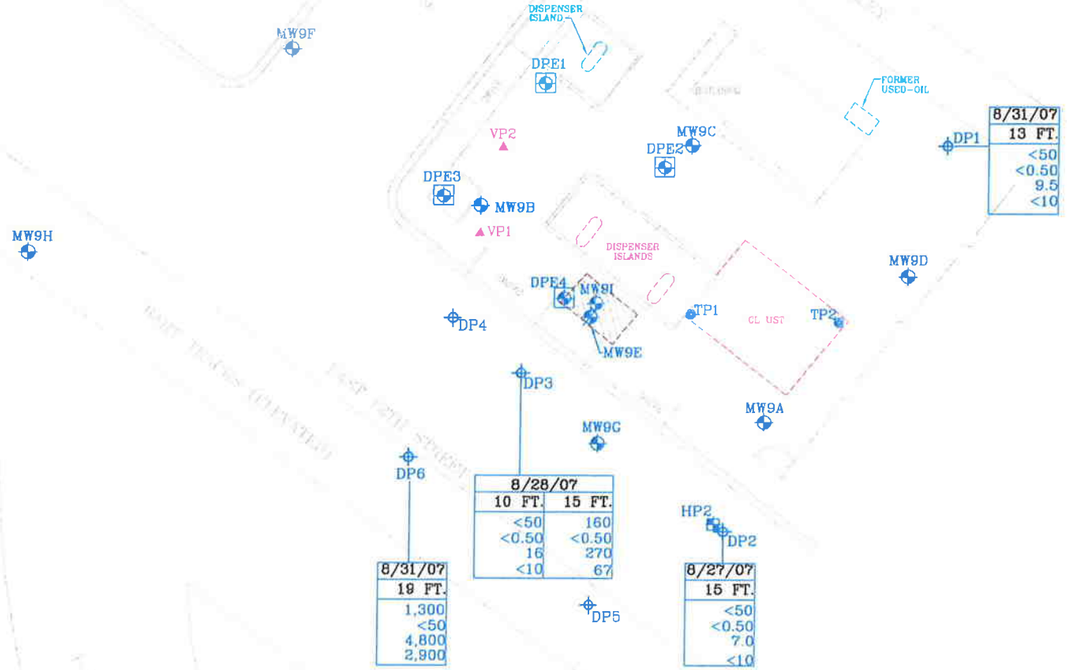
Excavation

PROJECT NO. 2293

PLATE 4

Analyte Concentrations in ug/L

8/31/07	Date Sampled
19 FT.	Sample Depth
1,300	Total Petroleum Hydrocarbons as gasoline
<50	Benzene
4,800	Methyl Tertiary Butyl Ether
2,900	Tertiary Butyl Alcohol
<	Less Than the Stated Laboratory Reporting Limit
ug/L	Micrograms per Liter



SOURCE:
Modified from a map provided by Morrow Surveying

APPROXIMATE SCALE

0 50 100 Feet

FN 2293 07 R24 SAR_SP

J:\2293\SPECIALITY MAPS\R24\07 R24 SAR_SP.dwg, mkjones

ERI
VALUE, QUALITY, RESPONSE

SELECT GROUNDWATER ANALYTICAL RESULTS

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

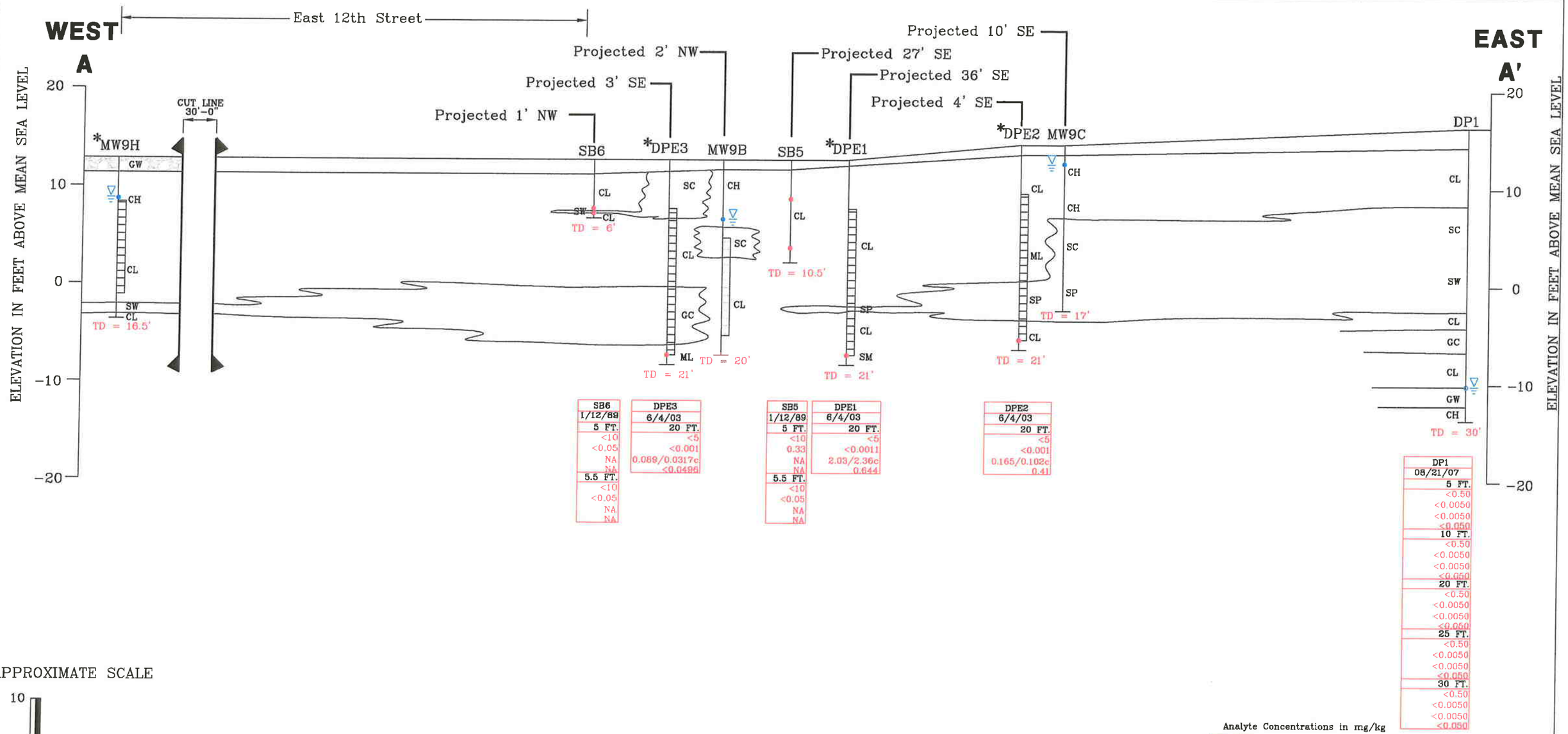
- MW9I — Groundwater Monitoring Well
- TP2 — Observation Well
- DPE4 — Dual-Phase Extraction Well
- VP2 — Soil Vapor Extraction Well
- MW9E — Destroyed Groundwater Monitoring Well
- DP6 — Direct-Push Boring
- HP6 — Hydropunch Boring

NOTE:
Former Groundwater Monitoring Well MW9E was in the current location of MW9I.

- Excavation

PROJECT NO. 2293

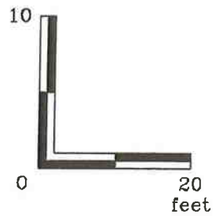
PLATE 5



SB6	DPE3	SB5	DPE1	DPE2
1/12/89	6/4/03	1/12/89	6/4/03	6/4/03
5 FT.	20 FT.	5 FT.	20 FT.	20 FT.
<10	<5	<10	<5	<5
<0.05	<0.001	0.33	<0.0011	<0.001
NA	0.089/0.0317c	NA	2.03/2.36c	0.165/0.102c
NA	<0.0496	NA	0.644	0.41
5.5 FT.		5.5 FT.		
<10		<10		
<0.05		<0.05		
NA		NA		
NA		NA		

DP1
08/21/07
5 FT.
<0.50
<0.0050
<0.0050
<0.050
10 FT.
<0.50
<0.0050
<0.0050
<0.050
20 FT.
<0.50
<0.0050
<0.0050
<0.050
25 FT.
<0.50
<0.0050
<0.0050
<0.050
30 FT.
<0.50
<0.0050
<0.0050
<0.050

APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\07 R24 XS A-A'_SOIL.dwg, mkjones

FN 2293 07 R24 XSA-A'-SOIL

Analyte Concentrations in mg/kg

SB6	
1/12/89	Sample Date
5 FT.	Sample Depth
<10	Total Petroleum Hydrocarbons as gasoline
<0.05	Benzene
NA	Methyl Tertiary Butyl Alcohol
NA	Tertiary Butyl Alcohol

< Less Than the Stated Laboratory Reporting Limit

mg/kg Milligrams per kilogram

c Analyzed using EPA Method 8260B

NA Not Analyzed

• Sample Depth

VALUE, QUALITY, RESPONSE

CROSS SECTION A-A'
SELECT SOIL ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fine-grained sediments (Including, CL, CH, and ML)

Fill

Static Groundwater

TD = Total Depth

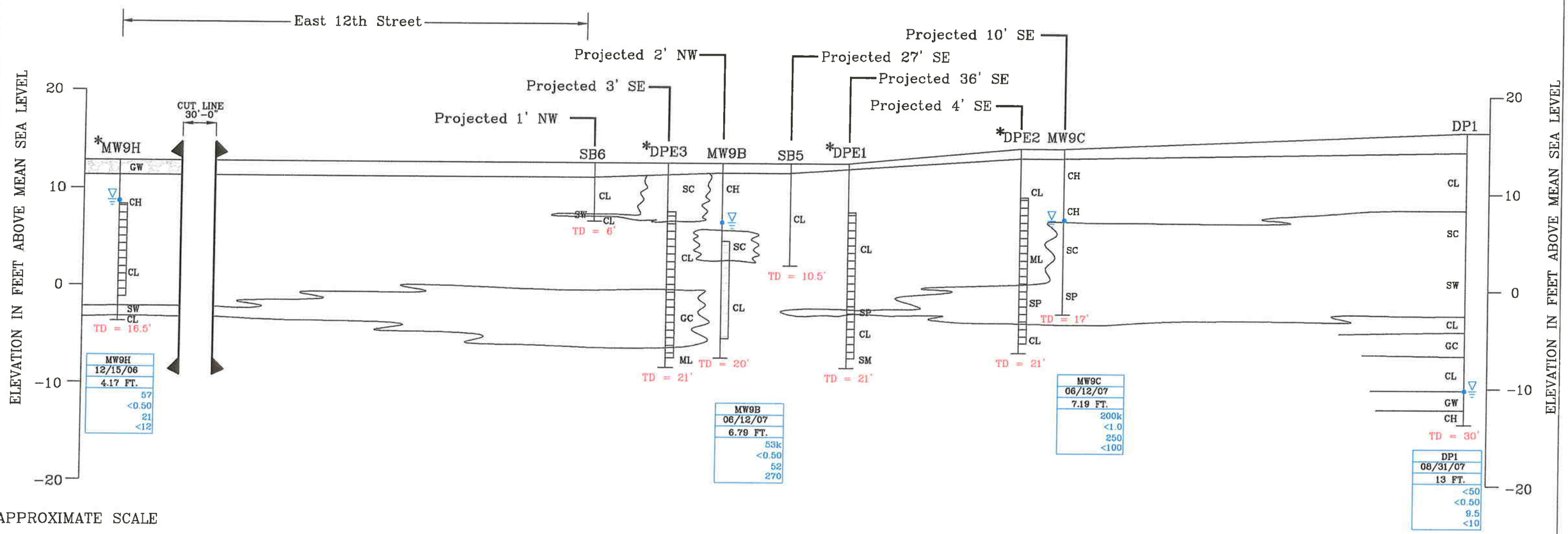
* Inferred Depth

PROJECT NO. 2293

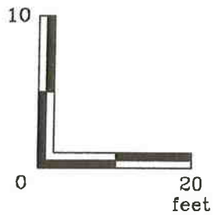
PLATE 6

WEST
A

EAST
A'



APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\07 R24 XS A-A'_GW.dwg, mkjones

FN 2293 07 R23 XSA-A'-GW

Analyte Concentrations in ug/L

MW9C	
06/12/07	Sample Date
7.19 FT.	Sample Depth
200k	Total Petroleum Hydrocarbons as gasoline
<1.0	Benzene
260	Methyl Tertiary Butyl Ether
<100	Tertiary Butyl Alcohol

< Less Than the Stated Laboratory Reporting Limit

ug/L Micrograms per liter

k Hydrocarbon result partly due to individual peak(s) in quantitation range.

ERI
VALUE, QUALITY, RESPONSE

CROSS SECTION A-A'
SELECT GROUNDWATER ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

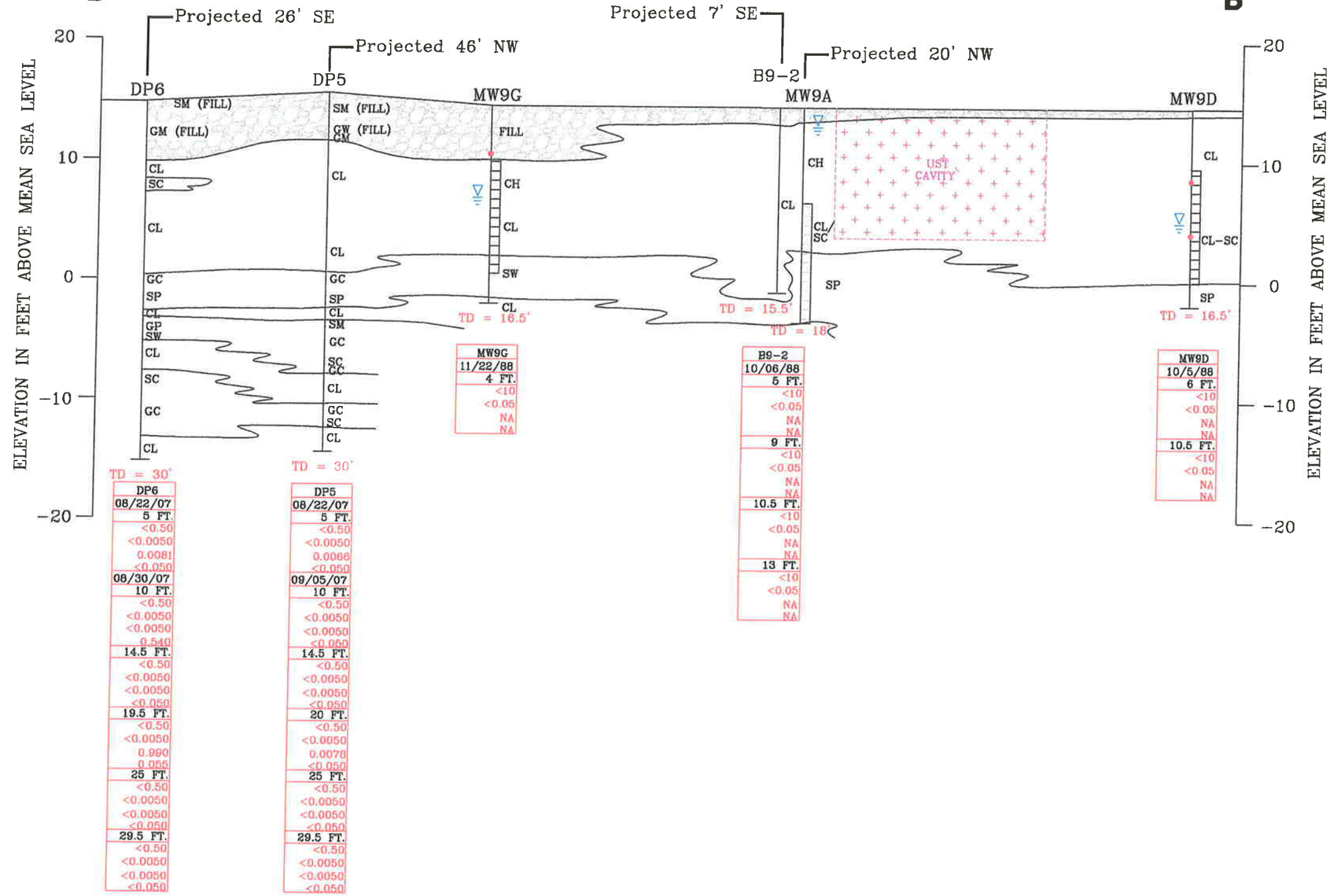
EXPLANATION

- (Including SP, SW, SM, SC, and GC)
- Fine-grained sediments (Including, CL, CH, and ML)
- Fill
- Static Groundwater
- TD = Total Depth
- * Inferred Depth

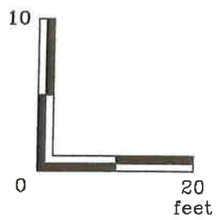
PROJECT NO. 2293

PLATE 7

SOUTHWEST B — NORTHEAST B'



APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS B-B'_SOIL.dwg, mkjones

FN 2293 07 R24 XSB-B'-SOIL

Analyte Concentrations in mg/kg

MW9G	
11/22/88	Sample Date
5 FT.	Sample Depth
<10	Total Petroleum Hydrocarbons as gasoline
<0.05	Benzene
NA	Methyl Tertiary Butyl Ether
NA	Tertiary Butyl Alcohol

< Less Than the Stated Laboratory Reporting Limit

mg/kg Milligrams per kilogram

NA Not Analyzed

• Sample Depth

ERI — VALUE, QUALITY, RESPONSE

CROSS SECTION B-B'
SELECT SOIL ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fine-grained sediments (Including, CL, CH, and ML)

Fill

Static Groundwater

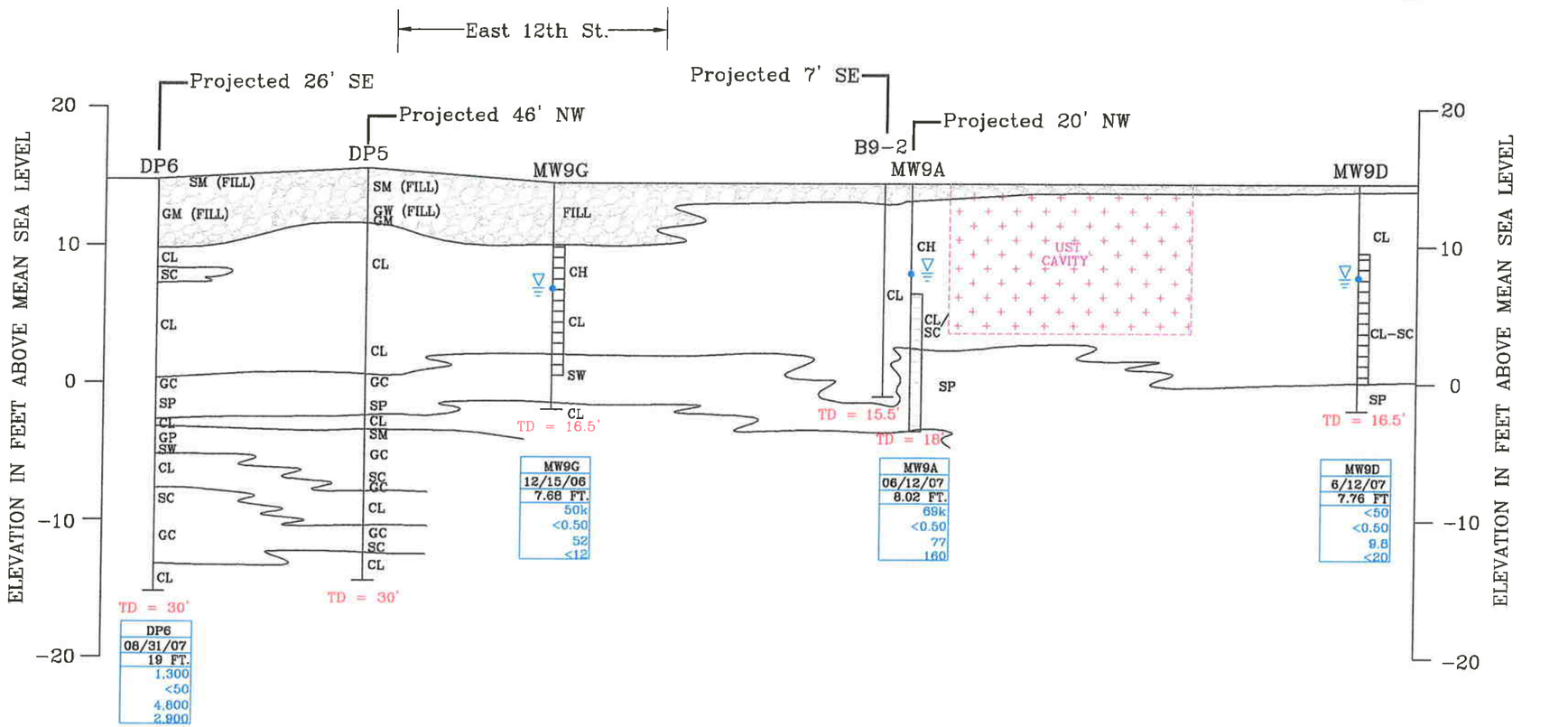
TD = Total Depth

PROJECT NO. 2293

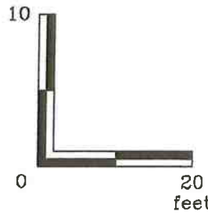
PLATE 8

SOUTHWEST
B

NORTHEAST
B'



APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS B-B'_GW.dwg, mkjones

FN 2293 07 R23 XSB-B'-GW

Analyte Concentrations in ug/L

DP6	
08/31/07	Sample Date
19 FT.	Sample Depth
1,300	Total Petroleum Hydrocarbons as gasoline
<50	Benzene
4,800	Methyl Tertiary Butyl Ether
2,900	Tertiary Butyl Alcohol
<	Less Than the Stated Laboratory Reporting Limit
ug/L	Micrograms per liter
k	Hydrocarbon result partly due to individual peak(s) in quantitation range.

ERI
VALUE, QUALITY, RESPONSE

CROSS SECTION B-B'
SELECT GROUNDWATER ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fine-grained sediments (Including, CL, CH, and ML)

Fill

Static Groundwater

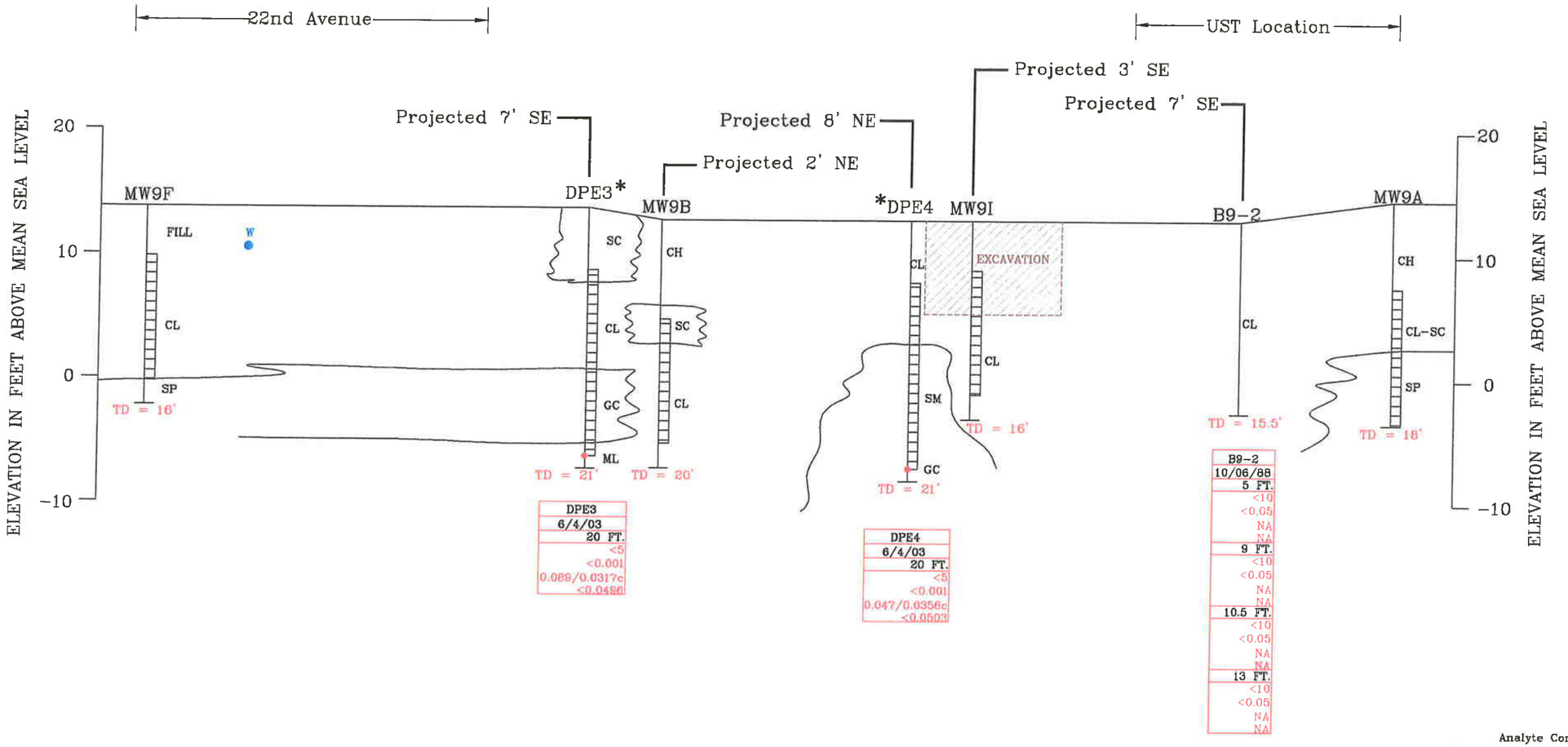
TD = Total Depth

PROJECT NO.
2293

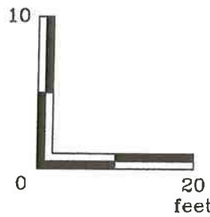
PLATE
9

NORTHWEST
C

SOUTHWEST
C'



APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS C-C' SOIL.dwg, mkjones

FN 2293 07 R24 XSC-C'-SOIL

Analyte Concentrations in mg/kg

DPE4	
6/4/03	Sample Date
20 FT.	Sample Depth
<5	Total Petroleum Hydrocarbons as gasoline
<0.001	Benzene
0.047/0.0356c	Methyl Tertiary Butyl Ether
<0.0503	Tertiary Butyl Alcohol

< Less Than the Stated Laboratory Reporting Limit

mg/kg Milligrams per kilogram

c Analyzed using EPA Method 8260B

NA Not Analyzed

ERI
VALUE, QUALITY, RESPONSE

CROSS SECTION C-C'
SELECT SOIL ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fine-grained sediments (Including, CL, CH, and ML)

W EBMUD Water Utility

• Sample Depth

TD = Total Depth

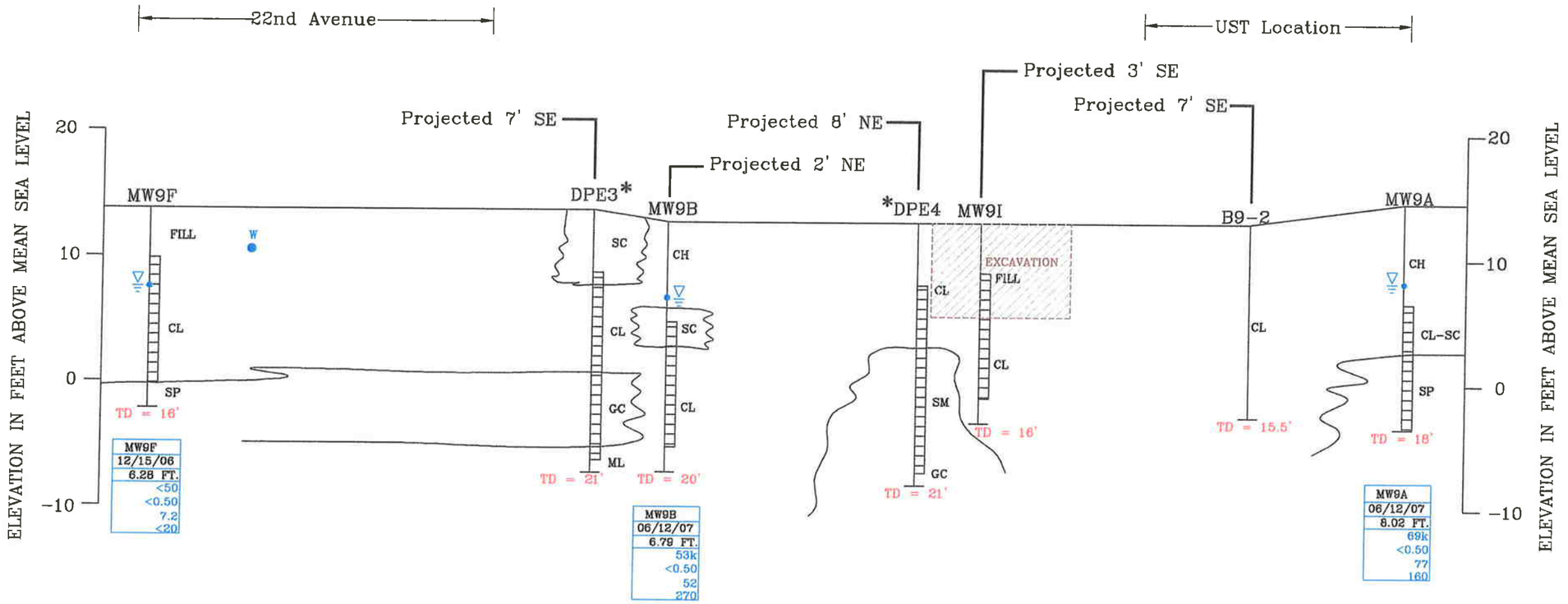
* Inferred Depth

PROJECT NO. 2293

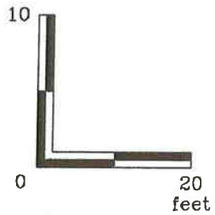
PLATE 10

NORTHWEST **SOUTHWEST**

C **C'**



APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS C-C' GW.dwg, mkjones

FN 2293 07 R24 XSC-C'-GW

Analyte Concentrations in ug/L

MW9A	
06/12/07	Sample Date
8.02 FT.	Sample Depth
69k	Total Petroleum Hydrocarbons as gasoline
<0.50	Benzene
77	Methyl Tertiary Butyl Ether
160	Tertiary Butly Alcohol

< Less Than the Stated Laboratory Reporting Limit

ug/L Micrograms per liter

k Hydrocarbon result partly due to individual peak(s) in quantitation range.

ERI

VALUE, QUALITY, RESPONSE

CROSS SECTION C-C'
SELECT GROUNDWATER ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fine-grained sediments (Including, CL, CH, and ML)

W EBMUD Water Utility

Static Groundwater

TD = Total Depth

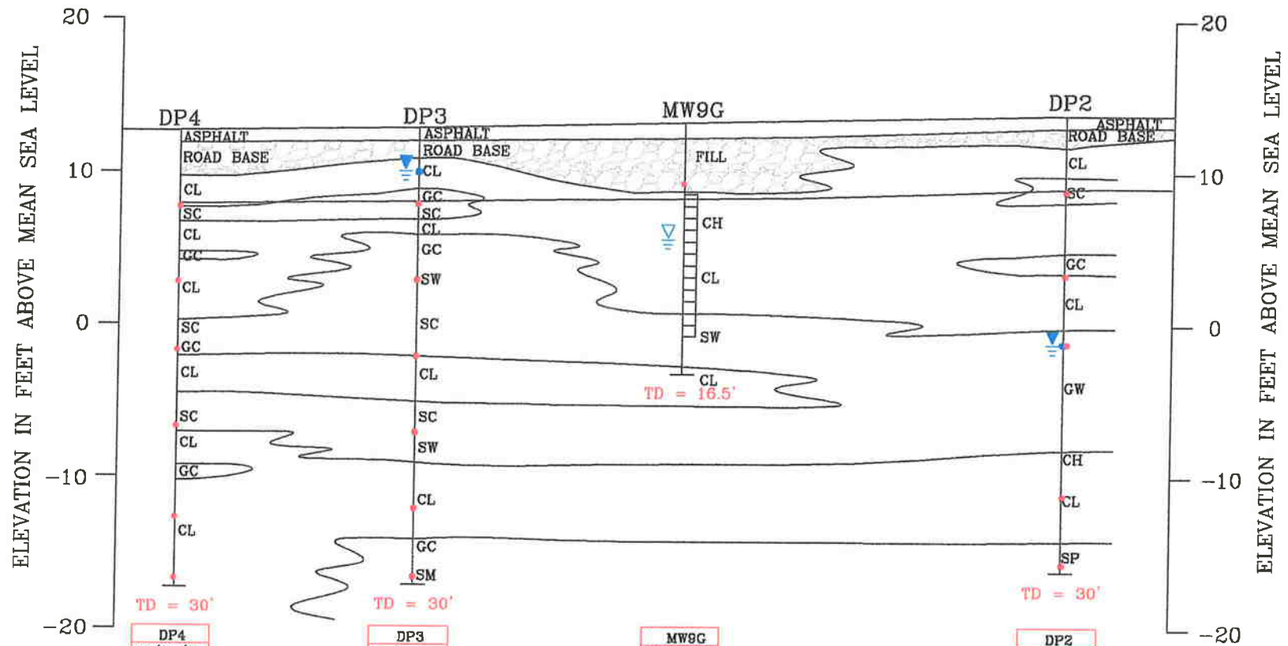
* Inferred Depth

PROJECT NO. 2293

PLATE 11

NORTHWEST **SOUTHEAST**

D **D'**



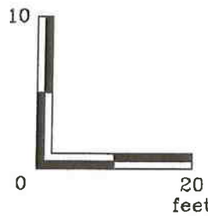
DP4
08/20/07
5 FT.
<0.50
<0.0050
<0.0050
<0.050
08/29/07
10 FT.
<0.50
<0.0050
<0.0050
0.180
29 FT.
<0.50
<0.0050
0.660
1,300
39 FT.
<0.50
<0.0050
<0.0050
<0.050
51 FT.
<0.50
<0.0050
<0.0050
<0.050
59 FT.
<0.50
<0.0050
<0.0050
<0.050

DP3
08/20/07
5 FT.
<0.50
<0.0050
<0.0050
<0.050
08/28/07
10 FT.
<0.50
<0.0050
<0.0050
<0.050
15 FT.
<0.50
<0.0050
0.016
0.940
20 FT.
<0.50
<0.0050
<0.0050
<0.050
25 FT.
<0.50
<0.0050
<0.0050
<0.050
59 FT.
<0.50
<0.0050
<0.0050
<0.050

MW9G
11/22/88
4 FT.
<10
<0.05
NA
NA

DP2
08/20/07
5 FT.
<0.50
<0.0050
<0.0050
<0.050
08/27/07
10 FT.
<0.50
<0.0050
<0.0050
<0.050
15 FT.
<0.50
<0.0050
0.0056
<0.050
20 FT.
<0.50
<0.0050
0.0088
<0.050
25 FT.
<0.50
<0.0050
<0.0050
<0.050
59 FT.
<0.50
<0.0050
<0.0050
<0.050

APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS D-D'_SOIL.dwg, mkjones

FN 2293 07 R24 XSD-D'-SOIL

Analyte Concentrations in mg/kg

DP4	
08/29/07	Sample Date
29 FT.	Sample Depth
<0.50	Total Petroleum Hydrocarbons as gasoline
<0.0050	Benzene
660	Methyl Tertiary Butyl Ether
1,300	Tertiary Butyl Alcohol
<	Less Than the Stated Laboratory Reporting Limit
mg/kg	Milligrams per kilogram
NA	Not Analyzed

• Sample Depth

ERI

VALUE, QUALITY, RESPONSE

CROSS SECTION D-D'
SELECT SOIL ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fill

Fine-grained sediments (Including, CL, CH, and ML)

First Encountered Groundwater

Static Groundwater

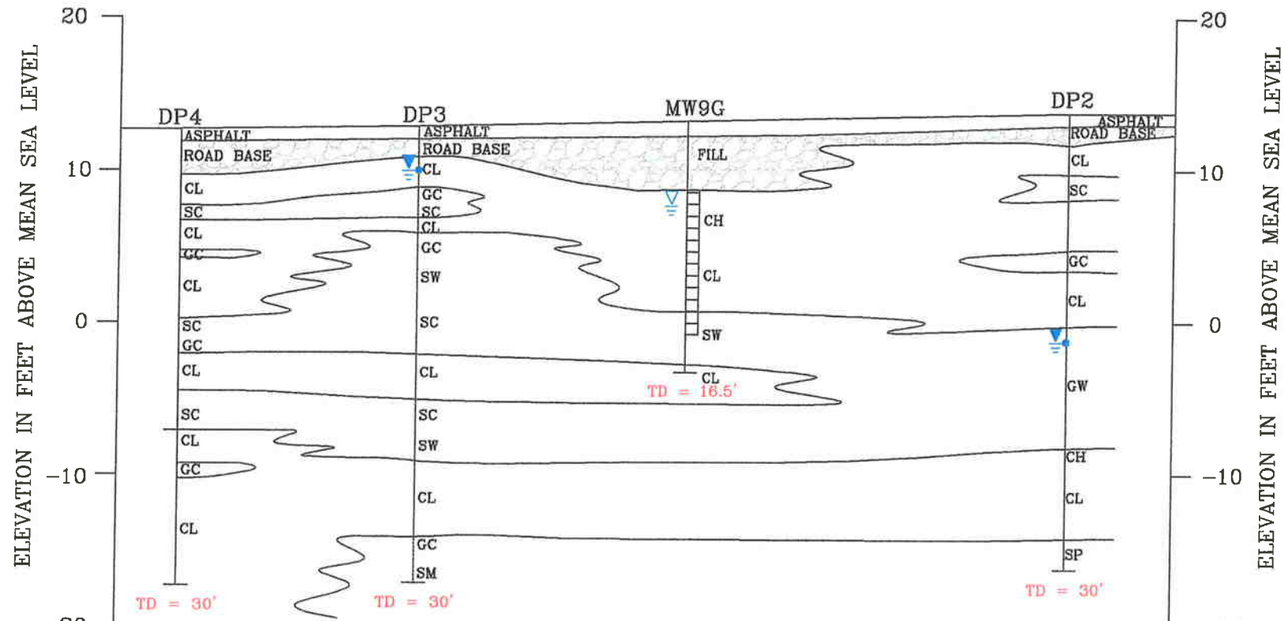
TD = Total Depth

PROJECT NO. 2293

PLATE 12

NORTHWEST **SOUTHEAST**

D **D'**

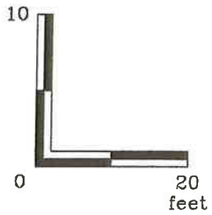


DP3
08/28/07
10 FT.
<50
<0.50
16
NA
15 FT.
160
<0.50
270
67

MW9G
12/15/06
7.68 FT.
50k
<0.50
52
<12

DP2
08/27/07
15 FT.
<50
<0.50
7.0
<10

APPROXIMATE SCALE



Vertical Exaggeration x2

J:\2293\SPECIALITY MAPS\R24\2293 07 R24 XS D-D'_GW.dwg, mkjones

FN 2293 07 R23 XSD-D'-GW

Analyte Concentrations in ug/L

DP3	
08/28/07	Sample Date
15 FT.	Sample Depth
160	Total Petroleum Hydrocarbons as gasoline
<0.50	Benzene
270	Methyl Tertiary Butyl Ether
67	Tertiary Butyl Alcohol

< Less Than the Stated Laboratory Reporting Limit

ug/L Micrograms per liter

ERI

VALUE, QUALITY, RESPONSE

CROSS SECTION D-D'
SELECT GROUNDWATER ANALYTICAL RESULTS

FORMER
EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

EXPLANATION

(Including SP, SW, SM, SC, and GC)

Fill

Fine-grained sediments (Including, CL, CH, and ML)

First Encountered Groundwater

Static Groundwater

TD = Total Depth

PROJECT NO. 2293

PLATE 13

ATTACHMENT A

REGULATORY CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

May 24, 2007

Ms. Jennifer Sedlachek
ExxonMobil Refining & Supply – Global Remediation
4096 Piedmont Avenue #194
Oakland, CA 94611

Mr. Robert Ehlers
Valero Refining Company
PO Box 696000
San Antonio, TX 78269

Mr. Satya Sinha
Chevron Environmental Management Company
6001 Bollinger Canyon Rd. K2256
San Ramon, CA 94583-2324

Subject: Fuel Leak Case No. RO0000390, Exxon #7-0238, 2200 E 12th Street, Oakland CA

Dear Ms. Sedlachek and Messrs. Ehlers and Sinha

Alameda County Environmental Health (ACEH) staff have reviewed the fuel leak case file and the reports entitled, "Work Plan for Soil and Groundwater Investigation," dated April 10, 2007 and "Site Conceptual Model," dated March 14, 2007 prepared by Environmental Resolutions Inc (ERI). The scope of work as proposed in the Work Plan recommends the installation of seven soil boring down gradient of the former USTs and fuel dispenser island. ACEH generally concurs with the scope of work as recommended in the Work Plan provided the technical comments discussed below are implemented prior to the start of field work.

We request that you perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Soil Boring Locations and Sampling.** Review of Plate 16 (Proposed Soil Boring Locations) from the Work Plan indicate the proposed soil borings have the same ID numbers as soil borings installed in a previous soil and groundwater investigation. Please rename the soil borings with unique identification numbers to distinguish them from soil borings installed during previous investigations. In addition, ACEH requests that one additional soil boring be located between SB17 and MW9H and soil boring SB19 should be moved from the current location to approximately 30 northwest of MW9H. In addition, ACEH generally agrees with the soil sample analysis recommended in the Work Plan.

2. **Site Conceptual Model.** ACEH appreciates the submission of the Site Conceptual Model (SCM) for your site. After completion of the soil and groundwater investigation, please update the SCM with the results from the soil and groundwater investigation and prepare additional

cross sections that include the new soil boring locations and soil and groundwater analytical results.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Steven Plunkett), according to the following schedule:

August 1, 2007 –Soil and Groundwater Investigation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail. Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Should you have any questions, please call me at (510) 383-1767.

Sincerely,

Steven Plunkett
Hazardous Materials Specialist

cc: ✓ Ms. Paula Sime
Environmental Resolutions Inc.
601 North McDowell Boulevard
Petaluma, CA 94954

Donna Drogos, ACEH, Steven Plunkett, ACEH, File

Paula M. Sime

From: Plunkett, Steven, Env. Health [steven.plunkett@acgov.org]
Sent: Wednesday, July 25, 2007 5:11 PM
To: Paula M. Sime
Subject: RE: RO#390 and RO#2515 Drilling Status Update

Paula,

RO390: ACEH has reviewed your request for a time extension to October 15, 2007. The request for a time extension is granted, the SWI is now due October 15, 2007.

RO2515: ACEH has reviewed your request for a time extension to October 31, 2007. The request for a time extension is granted, the SWI is now due October 31, 2007.

Regards,
Steven Plunkett
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
510-383-1767
510-337-9355 Fax
steven.plunkett@acgov.org

From: Paula M. Sime [mailto:psime@ERI-US.com]
Sent: Wednesday, July 25, 2007 4:41 PM
To: Plunkett, Steven, Env. Health
Subject: FW: RO#390 and RO#2515 Drilling Status Update

Hi Steven,

Quick status update, we heard back from the Traffic Control Plan division at the City of Oakland today. They approved our revised Traffic Control Plan so we can move forward with obtaining the encroachment and obstruction permits for the drilling in East 12th Street. We will obtain those permits next week, so we are on track to begin drilling in August.

What are your thoughts on the proposed due dates? Would you mind responding to my email so I can place the documentation in the file?

Thanks again,
Paula

From: Paula M. Sime
Sent: Thursday, July 19, 2007 3:49 PM
To: 'Plunkett, Steven, Env. Health'
Subject: RO#390 and RO#2515 Drilling Status Update

Hi Steven,

I thought you would appreciate a status update on the site we discussed yesterday (RO#2515, 3450 35th Avenue,

Oakland) and also RO#390 (2200 East 12th Street, Oakland) since we have drilling coming up at both sites.

RO#390 (2200 East 12th Street, Oakland):
The first few steps of the encroachment permitting process are complete, and USA marking and utility locating were completed last week. We did have to move some of the borings and adjust some lane closures, so have submitted new traffic plans for approval by the city (back to Step 1 for those locations). With this in mind, and assuming the city will turn around the approved traffic plans and subsequent permits in a timely manner, we went ahead and scheduled hole clearance for August 20-22 and drilling August 27 through September 4 (Monday Sept. 3 is a holiday). Due to City restrictions, these dates are not flexible because if we switch days, we have to go all the way back to the beginning of the encroachment permitting process (our traffic plan is approved only for the dates we specify on the application). With this in mind, I propose submittal of the results report for this site by October 15th.

RO#2515 (3450 35th Avenue, Oakland):
Received your letter yesterday and spoke with you on the phone about getting an extension on the due date since we didn't receive the letter until 3 weeks after the requested report due date. This morning we contacted the 4 drillers in the area that we have a service agreement with, and all four said they were booked up through September. So, to accomodate the Oakland work, we have arranged for some field work at another site to be pushed back and opened up the following dates: hole clearance September 4-7, drilling September 10-14. I know we had talked about getting an extension to September 15th; however, this will require an extension further out. I have put my staff and the drillers on notice that if anything opens up sooner we will grab it (other than the dates reserved for 2200 East 12th Street), but at this time it's the soonest we can book the work. I propose submittal of the results report by October 31st.

For both these sites, I will be in contact as we approach the drilling dates and will notify you so you can be present for field work if your schedule allows. Let me know if you have any questions, and if you wouldn't mind, email me with your response to my proposed due dates. Thank you.

Paula

Paula Sime
Project Manager
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954
(707) 766-2026 (office)
(707) 338-8012 (mobile)
(707) 789-0414 (fax)
psime@eri-us.com

Paula M. Sime

From: Plunkett, Steven, Env. Health [steven.plunkett@acgov.org]
Sent: Wednesday, August 22, 2007 10:47 AM
To: Paula M. Sime
Subject: RE: RO#390 Status Update

Paula,

ACEH has received your request to change the analytical suite associated with the proposed WP for the site at 2200 E12th. Considering that TPHd has never been a COC at the site, we agree that it is not necessary to submit soil and groundwater samples for TPHd analysis. ACEH also agrees with analyte list suggested by ERI. Lastly, I will send out a access request today to the property owner at 2121 E 12th St.

Thanks for all your effort in moving this project forward.

Best Regards,
Steven Plunkett
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
510-383-1767
510-337-9355 Fax
steven.plunkett@acgov.org

From: Paula M. Sime [mailto:psime@ERI-US.com]
Sent: Wednesday, August 22, 2007 9:51 AM
To: Plunkett, Steven, Env. Health
Subject: RO#390 Status Update

Hi Steven,

I understand you spoke with Heidi Dieffenbach-Carle of ERI yesterday regarding our work at 2200 East 12th Street, Oakland (RO#390). ERI inadvertently included TPHd in the analyte list in *Work Plan for Additional Soil and Groundwater Investigation*, dated April 10, 2007, detailing the work we're doing this and next week at the site. Diesel has not historically been a constituent of concern at this site and therefore ERI is requesting to amend the analyte list to exclude TPHd. Soil and groundwater samples will be analyzed for TPHg using EPA Method 8015B, BTEX using EPA Method 8021B, and oxygenates (including MTBE, ETBE, DIPE, TBA, and TAME) and lead scavengers (including 1,2-DCA and EDB) using EPA Method 8260B.

We have not received a response from the private property owners at the location of proposed boring DP7/HP7. We sent them an access agreement on June 20, 2007. Per your request, the owners name and contact information is below. I do not have a phone number for them, only an address. Thank you in advance for assisting us in obtaining access. I am back in the office for the rest of the week so please contact me with any questions.

Thanks!

Paula

Location for DP7/HP7: 2121 East 12th Street, Oakland
Property Owner Name: Nhi M. Letruong

Property Owner Address: 2251Charter Way, San Leandro, California 94579-2781
APN: 19-47-1-7

Paula Sime
Project Manager
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954
(707) 766-2026 (office)
(707) 338-8012 (mobile)
(707) 789-0414 (fax)
psime@eri-us.com

ATTACHMENT B

FIELD PROTOCOL

FIELD PROTOCOL

Site Safety Plan

Field work will be performed by ERI personnel in accordance with a Site Safety Plan developed for the site. This plan describes the basic safety requirements for the subsurface investigation and the drilling of soil borings at the work site. The Site Safety Plan is applicable to personnel and subcontractors of ERI. Personnel at the site are informed of the contents of the Site Safety Plan before work begins. A copy of the Site Safety Plan is kept at the work site and is available for reference by appropriate parties during the work. The ERI geologist will act as the Site Safety Officer.

Drilling of Soil Borings

Prior to the drilling of soil borings, ERI will acquire necessary permits from the appropriate agency(ies). ERI will also contact Underground Service Alert (USA) and a private underground utility locator (per ExxonMobil protocol) before drilling to help locate public utility lines at the site. ERI will clear the proposed locations to a depth of approximately 4 or 8 feet (depending on the location), before drilling to reduce the risk of damaging underground structures.

The soil borings will be advanced using dual-tube or direct-push technology. A dual tube system consists of a large diameter (up to 3.5 inches) outer rod which serves as a temporary drive casing nested with an inner sample rods and sample barrel (up to 2.6 inches) used to obtain and retrieve the soil cores. The dual tubes are simultaneously pushed, pounded, or vibrated into the ground.

As the rods are advanced, soil is forced up inside of a three-foot sample barrel that is attached to the end of the inner rods. Soil samples are collected in stainless steel or clear plastic sample liners inside the sample barrel as both rods are advanced. After being driven three feet, the inner rods and sample barrel are retrieved, and the sample liners are removed from the sample barrel and are either package for chemical analysis or visually inspected for lithologic identification. Clean empty liners are placed into a new three foot sample barrel and attached to the rods and lowered to the bottom of the hole and the process is repeated until the total depth of the borehole is reached.

The larger outer diameter rods are left in place while the inner rod and sample barrel is retrieved. This prevents the borehole from collapsing and ensures that the soil samples are collected from the targeted depth rather than potentially be contaminated with slough from higher up in the borehole.

The drive casing, sampling rods, sample barrels, and tools will be steam-cleaned before use and between boreholes to minimize the possibility of cross-hole contamination. The rinsate will be contained in drums and stored on site. ERI will coordinate with Exxon Mobil for appropriate disposal of the rinsate.

Drilling will be performed under the observation of a field geologist, and the earth materials in the borings will be identified using visual and manual methods, and classified as drilling progresses using the Unified Soil Classification System.

Soil samples will be monitored with a photo-ionization detector (PID), which measures hydrocarbon concentrations in the ambient air or headspace above the soil sample. Field instruments such as the PID are useful for indicating relative levels of hydrocarbon vapors, but do not detect concentrations of hydrocarbons with the same precision as laboratory analyses. Soil samples selected for possible chemical analysis will be sealed promptly with Teflon® tape and plastic caps. The samples will be labeled and placed in iced storage for transport to the laboratory. Chain-of-Custody records will be initiated by the geologist in the field, updated throughout handling of the samples, and sent with the samples to the laboratory. Copies of these records will be in the final report. Cuttings generated during

drilling will be placed on plastic sheeting and covered and left at the site. ERI will coordinate with Exxon Mobil for the soil to be removed to an appropriate disposal facility.

Grab Groundwater Sample Collection through Direct Push Rods

At first encountered groundwater, the sample barrel and inner rods will be removed from the borehole. Small diameter well casing with 0.010" slotted well screen may be installed to facilitate the collection of groundwater samples. The temporary well is lowered through the drive casing and then the drive casing is pulled up approximately 0.5 feet to 2 feet to expose the slotted interval and allow groundwater to flow into the borehole. Groundwater samples may then be collected from within the drive casing with a new disposable bailer or peristaltic pump. When using dual-wall direct-push technology, the outer rods seal off upper portions of the aquifer while coring to the lower depths. Groundwater samples from lower depths can be collected by removing the inner coring rods while the outer rods remain in place, and attaching drive rods to a groundwater sampling probe such as the HydroPunch II® (HP II), which is then inserted inside the outer rods of the dual-wall equipment. A 5-foot long disposable screen and tip is inserted into the HP-II, the HP-II is pushed to the desired depth and the outer body of the HP-II is retracted. The disposable screen is exposed to the ground water and a ¾-inch inner-diameter bailer is lowered through the rods and into the screened zone for sample collection.

Grab Groundwater Sampling

The Hydropunch® sampler (or similar) provides a method for collecting groundwater samples at multiple depths in the same borehole. To sample groundwater, the sample tool is pushed to the selected depth beneath the water table, then withdrawn to expose an inlet screen. Alternatively, a temporary casing is placed within the casing. A water sample is then collected and promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

Borehole Grouting

After soil and grab groundwater sampling have been completed, all boreholes will be backfilled with cement grout containing less that 5 percent pure sodium bentonite. The grout will be pumped through a tremie pipe positioned at the bottom of the boreholes.

ATTACHMENT C

PERMITS

229303X
PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/20/2007 By jamesy

Permit Numbers: W2007-0723
Permits Valid from 08/20/2007 to 09/30/2007

Application Id:	1181857721316
Site Location:	2200 E 12th St, Oakland, CA
Project Start Date:	07/10/2007
Extension Start Date:	08/20/2007
Extension Count:	1
Applicant:	Environmental Resolutions - P. Sime 601 N McDowell Blvd., Petaluma, CA 94954
Property Owner:	Stanley & Aaron Wong 220 E 12th St, Oakland, CA 94606
Client:	** same as Property Owner **

City of Project Site: Oakland

Completion Date: 07/31/2007
Extension End Date: 09/30/2007
Extended By: vickyh1

Phone: 707-766-2000

Phone: 510-535-1672

Total Due: $200.00
Receipt Number: WR2007-0279 **Total Amount Paid:** $200.00
Payer Name : Environmental Resolutions Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Geotechnical Study/CPT's - 16 Boreholes
Driller: Woodward Drilling - Lic #: 710079 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0723	06/20/2007	10/08/2007	16	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Cuttings may also be left on site or spread out as long as the applicants has approval from the property owner and the cuttings will not violate the State and County Clean Water laws (NPDES).

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit

application on site shall result in a fine of $500.00.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

CITY OF OAKLAND

PUBLIC WORKS AGENCY • 250 FRANK H. OGAWA PLAZA • SUITE 4344 • OAKLAND, CALIFORNIA 94612-2033
Transportation Services Division
Office (510) 238-3466
FAX (510) 238-7415
TDD (510) 839-6451

Traffic Engineering Services Analysis Fee Invoice

Date: July 25, 2007

TSD Invoice # : 07-0141

To: Rebekah Ann Westrup
Company: Environmental Resolutions Inc.
Address: 601 N. Mc Mowell Blvd, Petaluma, California
Phone: 707-338-8555

Created/Received By: Joe Watson

Location	Description of Work	Project Name / Permit #	# of Hours *
E.12th Street between 23rd Avenue and 21st Avenue	Lane Closure		1

Total Hours	1
TSD Service Rate	$ 100.00
Total Fee	$ 100.00

* - minimum 1 hour service

FOR CITY USE ONLY	
Cost Center No.	W659
Organization No.	30262
Account No.	45119
Fund No.	1750

Cc: Rosalie

P:\!Traffic\obstruction_permit\Walk-Ins Invoices\2004\TSD-07-0141.xls

#2622

APPLICATION FOR TRAFFIC CONTROL PLAN

Transportation Services Fee: $100/hour
(Check or Money Order Only)

City of Oakland

07 JUL 17 AM 8:35

Public Works Agency
Transportation Services Division

Check the box that apply:
- ☑ **New Application** (Utility, Excavation)
- ☐ **Renewal Application**
- ☐ **New Development w/ Mgmt Plan**
- ☐ **City of Oakland Project**

Please read the following:

1. Processing time for a Traffic Control Application is a minimum of 10 working days.
2. Traffic Control review is scheduled only on Tuesdays and Thursdays from 8:30am thru 11:30am by appointment only.
3. A scheduled appointment by phone or email with a TSD staff member is necessary to discuss any and all traffic control application and plans.
4. Please call ahead to confirm that the traffic control application is ready for pickup @ 510-238-3467.
5. Businesses and residences adjacent to the work area must be provided 72 hour advance notice.
6. A completed traffic control application may be faxed to (510) 238-7415.
7. Incomplete traffic control applications will not be processed and will be returned to applicant.
8. The initial approval for a traffic control plan is 1 month, the renewal submittal may be approved up to 3 months.
9. The traffic control provision dates cannot be changed or extended if work has already commenced.
10. Upon receiving TSD approval of the traffic control plan, the applicant (or contractor) shall proceed to the Building Services Division of CEDA to obtain an "Obstruction Permit." CEDA is located at 250 Frank Ogawa Plaza, 2nd Floor, Oakland, CA 94612.

Contact Person: Rebekah Ann Westrup Phone: 707-338-8555

Name of Company: Environmental Resolutions Inc. Fax: 707-789-0414

Address of Company: 601 N. McDowell Boulevard, Petaluma, California 94954

Describe type of work to be performed: Advance soil borings to collect groundwater and soil samples

Location of work: E 12th Street Between* 21st Ave And* 23rd Ave

Between* And*

* Name the streets that are the boundaries of your work area.

Work date (s): August 1 to September 1 ☑ Mon-Fri ☐ Sat-Sun Work Hours: 7:00am to 4:00pm

☐ Mon-Fri ☐ Sat-Sun to

Please Follow these Steps to Complete a Traffic Control Plan

A. **Drawing Area:** The full width of all streets adjacent to the site MUST be included in the drawing. Include the entire block in which your work is located for every street that is adjacent to your site.

B. **Include Street Names, Direction of Traffic on the Street, and North Arrow**

C. **Show Existing Number of Lanes in all Directions** (with any pavement arrows)

D. **Check the Box(s) that Apply:** All checked items **MUST** be shown on the drawing

- ☑ Lane Closure
- ☐ Street Closures **(must provide detour plan)**
- ☐ Use of Median
- ☑ Use Parking Lane
- ☐ Sidewalk Closure **(must provide pedestrian walk way)**

E. **Show All Dimensions** of street widths (curb to curb), lane widths, sidewalk widths, and work area dimension.
(Note: Traffic Control Application / Plans missing the above information will not be accepted or processed.)

F. **Show the Name and Locations** of all advanced warning devices, flaggers, delineators, warning and construction signs to be used.

RENEWAL PROCESS: Resubmit a completed Traffic Control Application with the old approved plan (with the necessary modifications / changes to the plans).

FOR HELP in constructing a traffic control plan please refer to the "WATCH" hand book or chapter 5 of the MUTCD manual available online at: http://www.dot.ca.gov/hq/traffops/signtech/signdel/chp5/chap5.htm

For our Website: http://www.oaklandpw.com/transportation/traffic_control_plan.htm

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD-07-0141
Reviewed By: JWatson
Date: _7/25/2007_
Permit good from___8/01/2007___
to____9/01/2007___

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2000 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Caltrans Traffic Manual, Chapter 5 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and opened to travel. Emergency access shall be provided at all times.

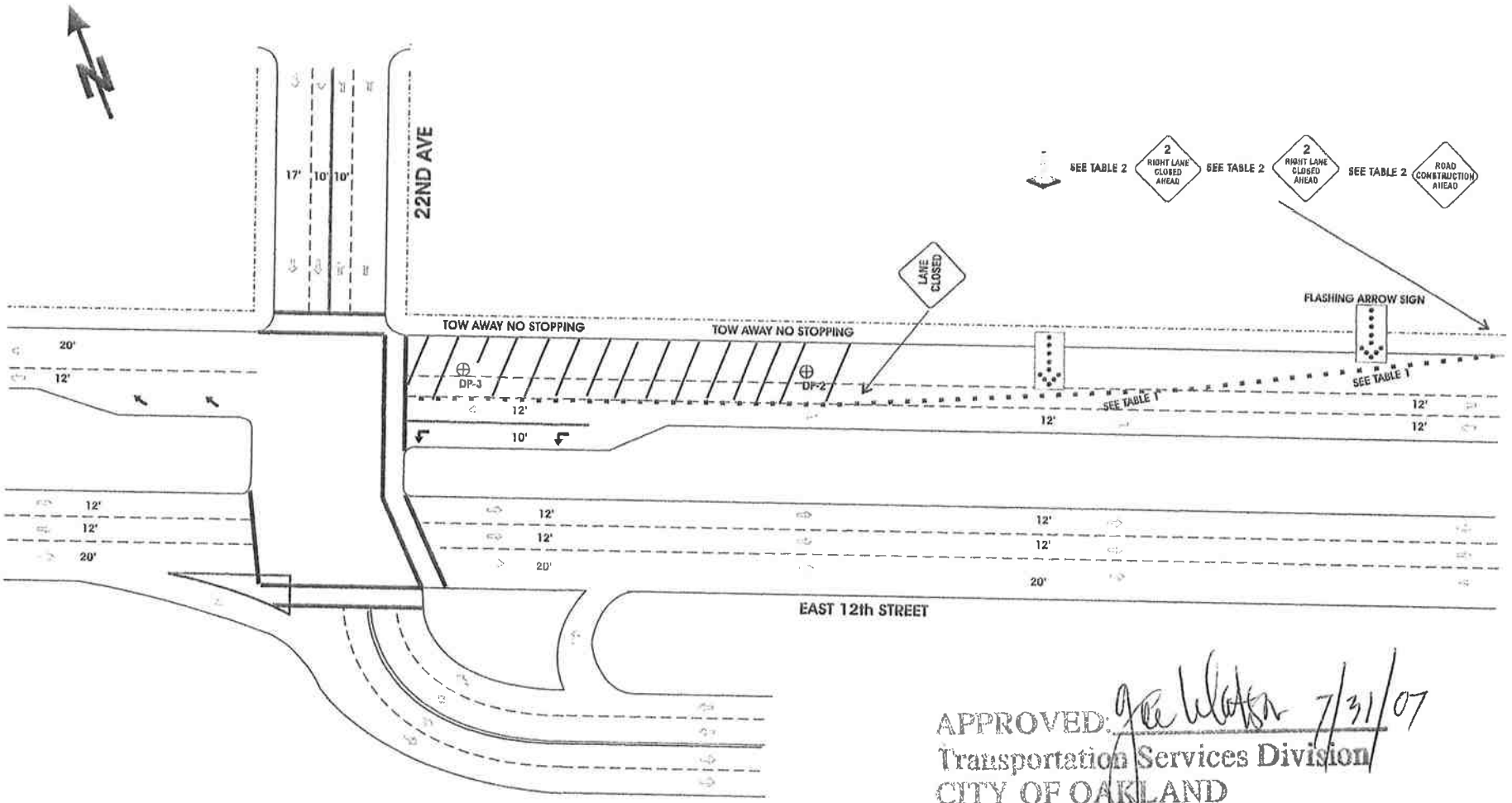
Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
E.12th Street between 23rd Avenue and 21st Avenue	Mon-Fri 9am – 4 pm	N/A	N/A	2-12' lane open minimum	2-12' lane open minimum
22nd Avenue between Solano Way and E.12th Street	Mon – Fri 7am – 4pm	N/A	1-12' lane open minimum	N/A	N/A

The Contractor Shall Also include all check item:

1. ☐ Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. ☒ Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. ☒ Provide advance notice to Oakland Police at (510) 777-3333 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☐ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

TRAFFIC CONTROL PLAN - E. 12TH STREET & 22ND AVE (DP-2 & DP-3)



APPROVED: [signature] 7/31/07
Transportation Services Division
CITY OF OAKLAND

TABLE 1 - Typical Application Taper - Cones

Approach Speed (MPH)	taper length (feet)	# of cones for taper (feet)	spacing cones along taper (ft)
0 - 25	125	6	25
26 - 40	320	9	40
41 - 60	600	13	50

TABLE 2 - Typical Application Signs

Approach Speed (MPH)	between signs (feet) A first sign	between signs (feet) B second sign	between signs (feet) C third sign
Urban low / moderate speeds	100	100	100
Urban high speeds	350	350	350
Rural	500	500	500
Freeway	1000	1500	2640

PREPARED BY: ROBERT SCULLY
UNITED RENTALS HWY. TECH.
1277 OLD BAYSHORE HWY.
SAN JOSE CA. 95112
(408) 295-8210
(408) 998-5939 FAX
C-31 C-32 CONTRACTORS LIC. 796782

CITY OF OAKLAND

PUBLIC WORKS AGENCY • 250 FRANK H. OGAWA PLAZA • SUITE 4344 • OAKLAND, CALIFORNIA 94612-2033

Transportation Services Division

Office (510) 238-3466
FAX (510) 238-7415
TDD (510) 839-6451

Traffic Engineering Services Analysis Fee Invoice

Date: June 27, 2007

TSD Invoice # : 07-0116

To: Rebekah Ann Westrup
Company: Environmental Resolutions Inc.
Address: 601 N. Mc Mowell Blvd, Petaluma, California
Phone: 707-338-8555

Created/Received By: Joe Watson

Location	Description of Work	Project Name / Permit #	# of Hours *
E.12th Street between 23rd Avenue and 21st Avenue	Lane Closure		1

Total Hours	1
TSD Service Rate	$ 100.00
Total Fee	$ 100.00

* - minimum 1 hour service

FOR CITY USE ONLY	
Cost Center No.	W659
Organization No.	30262
Account No.	45119
Fund No.	1750

Cc: Rosalie

P:\!Traffic\obstruction_permit\Walk-Ins Invoices\2004\TSD-07-0116.xls

Revised Dates

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD-07-0116
Reviewed By: JWatson
Date: _7/31/2007_
Permit good from___8/01/2007___
to____11/01/2007___

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2000 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Caltrans Traffic Manual, Chapter 5 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and opened to travel. Emergency access shall be provided at all times.

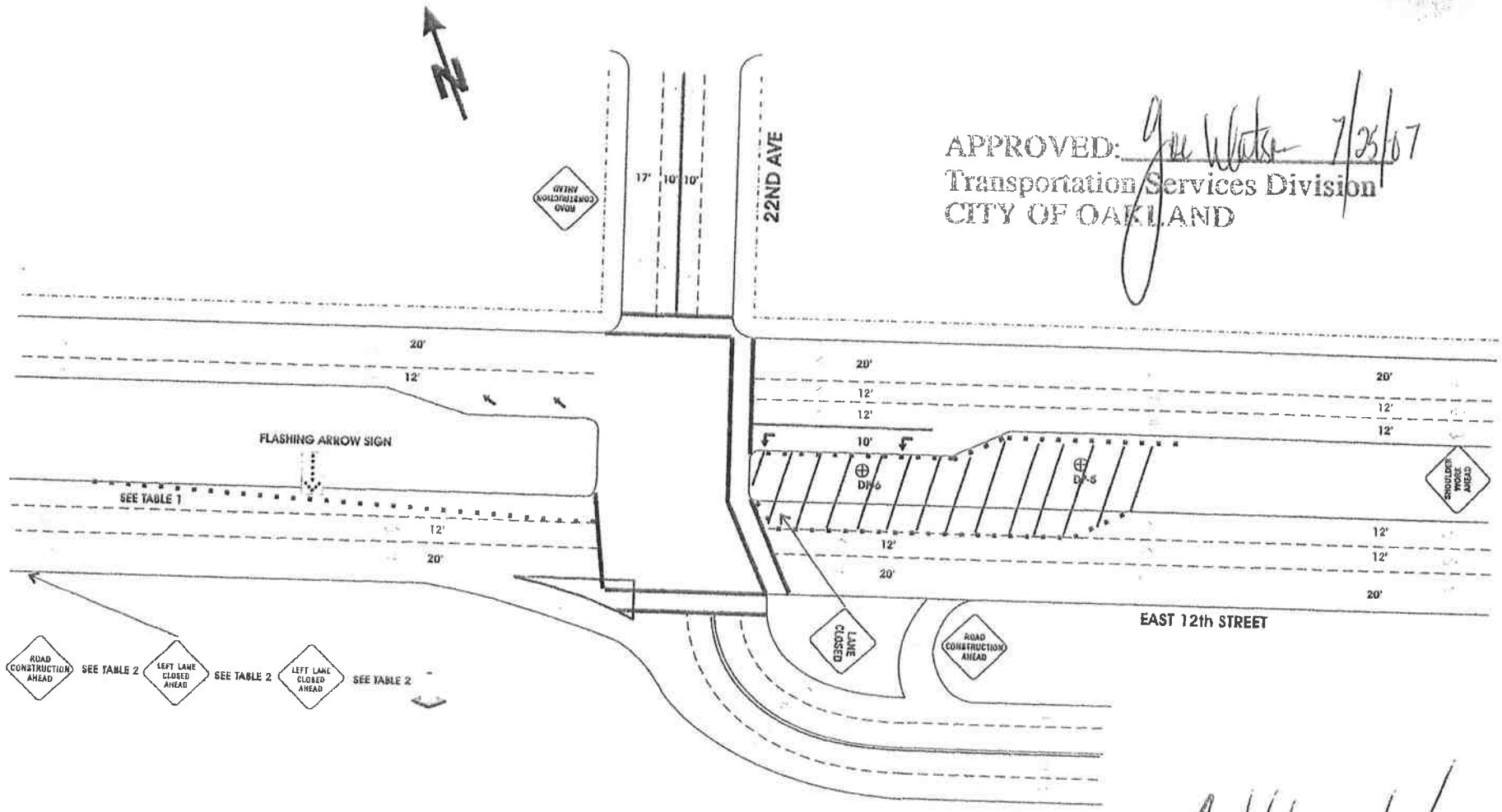
Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
E.12th Street between 23rd Avenue and 21st Avenue	Mon-Fri 9am – 4 pm	N/A	N/A	2-12' lane open minimum	2-12' lane open minimum

The Contractor Shall Also include all check item:

1. ☐ Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. ☒ Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. ☒ Provide advance notice to Oakland Police at (510) 777-3333 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☐ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

TRAFFIC CONTROL PLAN - E. 12TH STREET & 22ND AVE (DP-5 & DP-6)



APPROVED: 7/25/07
Transportation Services Division
CITY OF OAKLAND

APPROVED: 6/27/07
Transportation Services Division
CITY OF OAKLAND

TABLE 1 - Typical Application Taper - Cones

Approach Speed (MPH)	taper length (feet)	# of cones for taper (feet)	spacing cones along taper (ft)
0 - 25	125	6	25
26 - 40	320	9	40
41 - 50	600	13	50

TABLE 2 - Typical Application Signs

Approach Speed (MPH)	between signs (feet) A first sign	between signs (feet) B second sign	between signs (feet) C third sign
Urban low / moderate speeds	100	100	100
Urban high speeds	350	350	350
Rural	500	500	500
Freeway	1000	1500	2640

PREPARED BY: ROBERT SCULLY
UNITED RENTALS HWY. TECH.
1277 OLD BAYSHORE HWY.
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C-31 C-32 CONTRACTORS LIC. 796782

ATTACHMENT D

UNIFIED SOIL CLASSIFICATION SYSTEM, SYMBOL KEY, AND BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel sand mixture, little or no fines
		GM	Silty gravels, gravel-sand-clay mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS	SILTS AND CLAYS LL<50	ML	Inorganic silts and very fine-grained sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	SILTS AND CLAYS LL>50	MH	Inorganic silts, micaceous or diatomaceous fine-grained sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

SAMPLE CONDITION

NO RECOVERY

SAMPLED INTERVAL

DESCRIBED SAMPLE

PRESERVED SAMPLE

GROUNDWATER LEVEL OBSERVED FROM FIRST WET SOIL SAMPLE IN BORING

STATIC GROUNDWATER LEVEL

OVM — ORGANIC VAPOR METER READING IN PARTS PER MILLION BY VOLUME

PID — PHOTO-IONIZATION DETECTOR READING IN PARTS PER MILLION BY VOLUME

WELL DESIGN

SAND PACK

BENTONITE ANNULAR SEAL

NEAT CEMENT ANNULAR SEAL

BLANK CASING

SLOTTED CASING

NR — NOT RECORDED

NA — NOT ANALYZED

BLOW/FT. REPRESENTS THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH THE LAST 12 INCHES OF AN 18-INCH OR 24-INCH PENETRATION.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

ERI

PROJECT 2293

UNIFIED SOIL CLASSIFICATION SYSTEM AND LOG OF BORINGS SYMBOL KEY

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

ATTACHMENT D

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP1

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

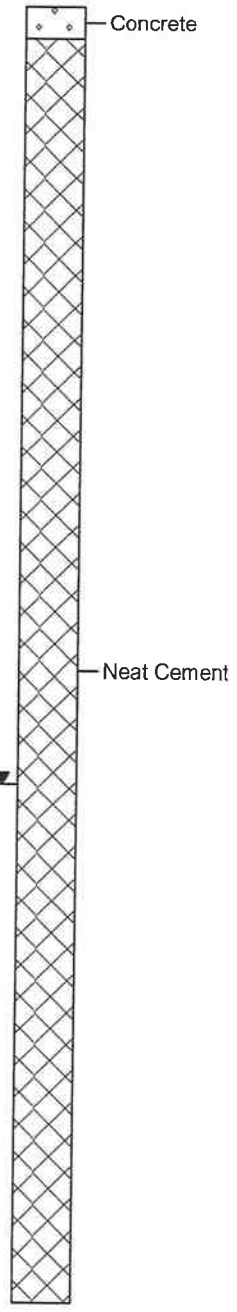
Date Drilled:	: 08/21/2007, 08/31/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 12 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 9'
- Second Encountered Water: NA

Boring: DP1

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						6-inches of Asphalt. Cleared to 8.0 fbgs using hand auger.
						Road Base
						CLAY: dark brown, dry, high plasticity.
					CL	
5		0.0				
					CL	SANDY CLAY: brown, moist, high plasticity, very fine grained sand.
					CL	SILTY CLAY: pale yellowish brown, moist, high plasticity, occassional subangular, fine grained gravel.
10		0.0			SC	CLAYEY SAND: fine grained, light grayish brown, orange brown mottling with black streaks throughout, moist, poorly graded, trace gravel.
					SW	SAND: fine to coarse grained, yellowish brown, wet, subangular, well graded, with fine grained gravel, trace clay.
15						NO RECOVERY: Gravel collapsed sampling liner.
					SW	AS ABOVE; Gravel decreasing; clay increasing.
					CL	SILTY CLAY: yellowish brown, mottled with black flecks, moist, high plasticity, stiff, with fine grained sand and trace coarse grained sand.
20						



10-12-2007 J:\2293\BORING LOGS\2293 DP1.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP1

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/21/2007, 08/31/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 12 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 9'; Second Encountered Water: NA

Boring: DP1

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
20		0.0			CL	SILTY CLAY: yellowish brown, mottled with black flecks, moist, high plasticity, stiff, with fine grained sand and trace coarse grained sand.
					GC	SAND CLAYEY GRAVEL: fine grained, yellowish brown, damp, subrounded, well graded, brick red, orange brown, black and white weathered clasts, fine grained sand, very stiff.
						NO RECOVERY: Gravel collapsed the sampling liner.
					CL	SAND GRAVELLY CLAY: yellowish brown, moist, high plasticity, subrounded, well graded gravel, with silt.
25		0.0			CL	SILTY CLAY: yellowish brown, damp, medium plasticity, very stiff, poorly graded, very fine grained sand, trace black flecks, trace coarse grained sand.
					GW	SANDY GRAVEL WITH CLAY: fine to coarse grained, yellowish brown, very moist to wet, subangular, well graded, fine grained sand. @27.5' clay decreasing, wet.
30		0.0			CH	CLAY: light grayish brown, damp, high plasticity, stiff, fine grained sand, trace black and reddish brown flecks.
35						
40						

Neat Cement

Cleared with hand auger to 8.0 fbgs on 08/20/2007.
Total Depth @ 30.0 fbgs on 08/27/2007.

Groundwater sampled @ 13 fbgs on 08/31/2007.

Groundwater sample attempted at 26-30 fbgs. No groundwater recovered.

10-12-2007 J:\2293\BORING LOGS\2293 DP1.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP2

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/20/2007, 08/27/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 15 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 15'; Second Encountered Water: 29'

Boring: DP2

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						wet, 10-inches of Asphalt. Cleared to 8.0 fbgs using hand auger.
						Road Base
					CL	CLAY: dark brown, dry, high plasticity.
5		0.0			SC	CLAYEY SAND: fine grained, brown, moist.
					CL	SANDY CLAY: dark brown, moist, high plasticity.
					GC	CLAYEY GRAVEL: fine grained, dark brown, moist to wet, angular.
10		0.0			SW	SANDY CLAY: medium olive gray, moist, medium plasticity, soft, fine grained sand, trace coarse grained sand.
						@ 13' to 13.5' gradational contact.
15		0.0			GW	GRAVEL WITH SAND: fine to coarse grained, orange brown, wet, subangular, well graded, orange brown, black and red mottling, trace clay, clay content increases with depth.
						@ 16.5' dry.
20						@ 20' dry to damp.

Concrete

Neat Cement

10-12-2007 J:\2293\BORING LOGS\2293 DP2.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP2

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/20/2007, 08/27/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 15 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 15'
- Second Encountered Water: 29'

Boring: DP2

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
20		0.0			GW	GRAVEL WITH SAND: fine to coarse grained, orange brown, wet along clasts boundaries but moist overall, subangular, well graded, orange brown, black and red mottling, clasts up to 2-inches in diameter.
					CH	CLAY: light brown, damp, high plasticity, trace very fine grained sand and black flecks, very stiff.
25		0.0			CL	SANDY CLAY WITH GRAVEL: light brown, damp, medium plasticity, fine to coarse grained, subangular and well graded gravel. @ 26' SANDY CLAY, fine grained sand, trace coarse grained sand.
					SP	SAND: fine grained, light brown, moist to wet, poorly graded, with clay, trace coarse grained sand. @ 29' wet and loose.
30		0.0				
35						
40						

Neat Cement

Cleared with hand auger to 8.0 fbgs on 08/20/2007.
Total Depth @ 30.0 fbgs on 08/27/2007.

Groundwater was sampled from adjacent borehole HP2 with use of hydropunch sampler; screen from 13-17 fbgs.

Groundwater sampled @ 15 fbgs on 08/27/2007.

10-12-2007 J:\2293\BORING LOGS\2293 DP2.bor

ERI ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP3

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

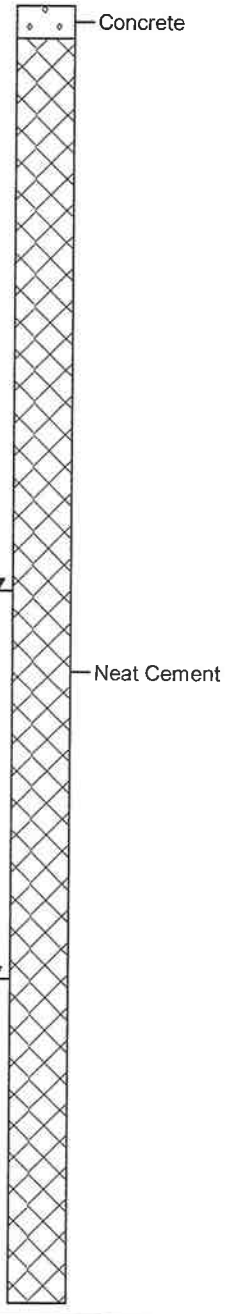
Date Drilled:	: 08/20/2007, 08/28/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 9 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 9'; Second Encountered Water: 15'

Boring: DP3

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						10-inches of Asphalt. Cleared to 8.0 fbgs using hand auger.
						Road Base
					CL	CLAY: dark brown, dry, high plasticity.
					GC	CLAYEY GRAVEL: fine grained, brown, dry, angular.
5		0.0			SC	CLAYEY SAND: fine grained, brown, moist.
					CL	CLAY: dark brown, dry, high plasticity, trace coarse grained sand.
					GC	CLAYEY GRAVEL: fine grained, dark brown, dry, subangular to angular.
10		0.0			SW	GRAVELLY SAND: fine grained, mottled orange-brown, green, blue-ish green, dark olive gray, greenish staining present (overall dark greenish gray) moist to wet, well graded, subrounded, trace clay. @10' color change to light brown. @10.5 gravel decreasing, clay increasing.
					SC	CLAYEY SAND: fine grained, light brown, very moist, poorly graded with subrounded and well graded gravel, trace orange brown staining. @ 13' increasing gravel, color change to brownish gray, little to no cohesion, wet. @ 14' increasing clay and cohesion, light greenish gray and orange mottling, gravel up to 2-inch diameter.
15		1.0			CL	GRAVELLY CLAY: light brown, moist to wet, medium plasticity, subrounded and well graded, fine to coarse grained gravel.
					CL	SANDY CLAY WITH SILT: light yellowish brown, wet, medium plasticity, fine grained and poorly graded sand.
20					SC	CLAYEY SAND WITH GRAVEL: light brown, damp, well graded.



10-12-2007 J:\2293\BORING LOGS\2293 DP3.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP3

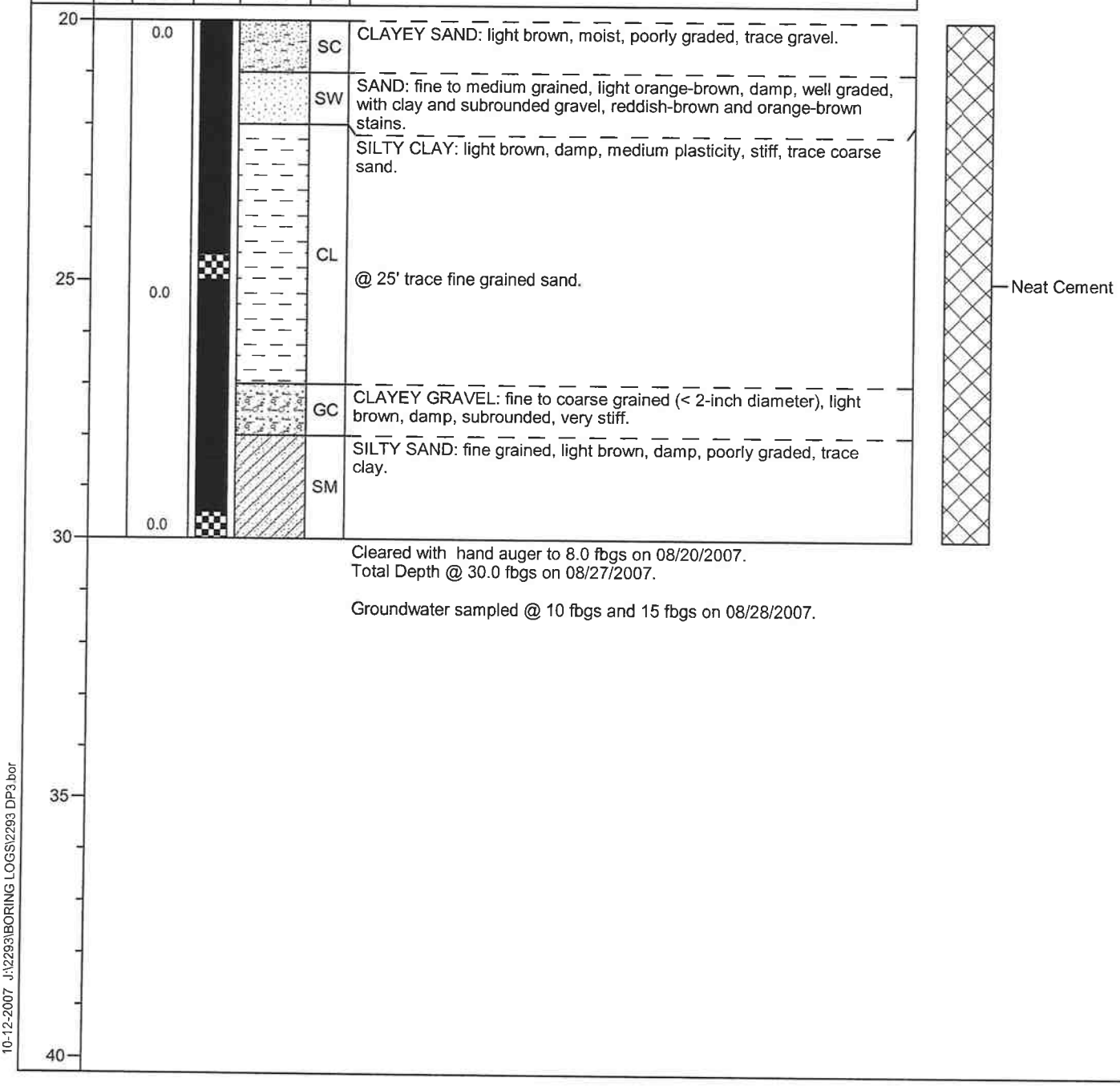
Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6798
Signature:	: Heidi Dieffenbach Carle

Date Drilled:	: 08/20/2007, 08/28/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: 9 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 9'
- Second Encountered Water: 15'

Boring: DP3



Cleared with hand auger to 8.0 fbgs on 08/20/2007.
Total Depth @ 30.0 fbgs on 08/27/2007.

Groundwater sampled @ 10 fbgs and 15 fbgs on 08/28/2007.

ERI ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP4

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/20/2007, 08/29/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: NA
- Second Encountered Water: NA

Boring: DP4

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						10-inches of Asphalt. Cleared to 8.0 fbgs using hand auger.
						Road Base
					CL	CLAY: dark brown, dry, high plasticity.
5		0.0			SC	CLAYEY SAND: fine grained, dark brown, moist.
					CL	CLAY: dark brown, dry, high plasticity, trace fine grained and subangular gravel.
		0.0			GC	CLAYEY GRAVEL: fine grained, dark brown, moist, subangular to angular.
10		0.0			CL	SILTY CLAY: dark olive brown, faint orange mottling, stringers of dark gray, damp. @9.5' SANDY CLAY, gradational contact light olive brown, orange mottling, damp, fine grained sand.
					SC	CLAYEY SAND: fine grained, light olive brown, trace medium to coarse grained sand, trace fine grained gravel, subangular to angular, iron oxide staining, black iron oxide, gradational contact.
					GC	CLAYEY SANDY GRAVEL: fine grained, olive brown, damp to moist (wet along angular gravel faces), iron oxide staining, fine to coarse grained sand.
15		1.0			SC	SANDY CLAY: light olive brown, orange mottling, damp, fine grained sand.
					CL	GRAVELLY CLAY WITH SAND: light olive brown, orange mottling, damp, fine grained sand.
					SC	CLAYEY GRAVELLY SAND: coarse grained, light olive brown, with medium grained sand, fine grained gravel, moist to wet (at gravel faces).
					CL	SANDY CLAY: light olive brown, orange mottling, damp, very stiff, fine grained sand, iron oxide nodules.
20						

Concrete

Neat Cement

10-12-2007 J:\2293\BORING LOGS\2293 DP4.bor

ENVIRONMENTAL RESOURCES, INC.

BORING LOG DP4

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Rebekah A. Westrup / Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/20/2007, 08/29/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: NA
- Second Encountered Water: NA

Boring: DP4

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
20					CL	SANDY CLAY: light yellowish brown, orange mottling, damp, very stiff, iron oxide nodules.
		0.0			GC	SANDY GRAVEL: fine grained, olive brown, wet along clasts faces, clasts -red, gray, green, orange, matrix is clayey, coarse-grained sand.
						SANDY CLAY: light yellowish brown, damp, very stiff, fine to medium grained sand, trace gravel, iron oxide staining of medium grained sand.
25		0.0			CL	
						@ 28' increasing fine grained gravel.
		0.0				
30						

Neat Cement

Cleared with hand auger to 8.0 fbgs on 08/20/2007.
Total Depth @ 30.0 fbgs on 08/29/2007.

Groundwater not encountered in boring.

Groundwater sample attempted from adjacent borehole HP4 with use of hydropunch sampler; screened from 13-17 fbgs. No groundwater entered into borehole HP4 within the time restriction in City of Oakland encroachment permit.

35

40

10-12-2007 J:\2293\BORING LOGS\2293 DP4.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP5

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

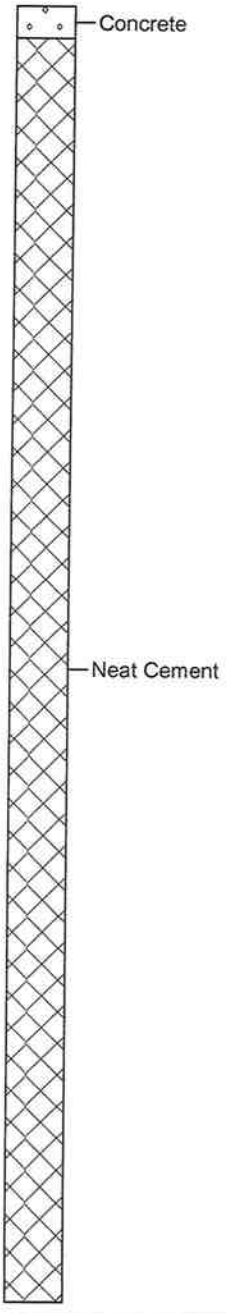
Date Drilled:	: 08/23/2007, 09/05/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: NA; Second Encountered Water: NA

Boring: DP5

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0					SM	SILTY GRAVELLY SAND, fine to coarse, brown, dry, loose (topsoil), fine grained gravel (pea gravel).
					GW	GRAVEL WITH SAND: fine gravel (Fill), gray, dry, fine to coarse grained sand.
					GM	GRAVEL WITH SAND: fine to coarse gravel and cobbles (up to 5-inches) (Fill), brown, dry, fine grained sand.
5		0.0			CL	SILTY CLAY: dark gray, damp, high plasticity, trace fine to medium sand.
					CL	SANDY CLAY: dark greenish gray, damp to moist, high plasticity, fine grained sand.
					CL	CLAY WITH SILT: dark greenish gray, damp, high plasticity.
10		0.0			CL	SANDY CLAY: brown, damp, medium plasticity, coarse grained subangular sand.
					CL	SILTY CLAY: brown, damp, high plasticity, occassional coarse grain sand and fine grained gravel, sand and gravel subangular to angular.
					CL	SANDY CLAY: brown, damp, medium plasticity, fine grained sand.
15		0.0			GC	CLAYEY GRAVEL: fine grained, dark brown, dry, subangular.
					SM	SILTY SAND: fine grained, pale yellowish brown, damp, black flecks in matrix.
					SP	SAND: fine to medium grained, light brown, moist, subrounded, poorly graded.
					CL	SANDY CLAY: yellowish brown, damp, high plasticity, very fine to fine grained sand.
20					SM	SILTY SAND WITH CLAY: very fine grained, yellowish brown, damp to moist, high plasticity.



10-12-2007 J:\2293\BORING LOGS\2293 DP5.bor

BORING LOG DP5

(Page 2 of 2)

ERI ENVIRONMENTAL RESOURCES, INC.

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/23/2007, 09/05/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: NA
- Second Encountered Water: NA

Boring: DP5

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
20		0.0			GC	CLAYEY GRAVEL: fine grained, light brown, damp, rounded to subrounded.
					SC	CLAYEY SAND: fine grained, pale yellowish brown, damp, occassional coarse grained sand, occassional fine grained gravel, black flecks in matrix.
					GC	CLAYEY GRAVEL: fine grained, brown with reddish mottling, dry.
					CL	CLAY: Sharp contact, yellowish brown, dry, black flecks in matrix.
25		0.0				
					GC	CLAYEY GRAVEL: fine grained, light brown, damp, rounded to subrounded.
					SC	CLAYEY SAND: fine grained, light brown, damp, occassional lense of medium grained, orange sand, grain size increases downward @27.5 coarse grained.
					CL	CLAY: grayish brown, damp, high plasticity.
30		0.0				@29' SILTY CLAY, moist.
35						
40						

Neat Cement

Cleared to 8 fbgs using hand auger on 08/23/2007. Interval 2.5 fbgs to 3.8 fbgs cleared using air knife.

Groundwater sample attempted at 24-30 fbgs. No groundwater recovered.

Groundwater sample attempted from adjacent borehole HP5 with use of hydropunch sampler; screened from 15-18 fbgs, and left overnight. No groundwater entered into borehole HP5.

Total Depth @ 30.0 fbgs on 09/052007

10-12-2007 J:\2293\BORING LOGS\2293 DP5.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP6

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 08/23/2007, 08/30/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 16'
- Second Encountered Water: NA

Boring: DP6

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0					SM	SILTY GRAVELLY SAND, fine to coarse, brown, dry, loose (topsoil)
					GM	GRAVEL WITH SAND: fine to coarse gravel (Fill), light to dark brown, angular to subangular, sand fine grained.
5		0.0			CL	CLAY: dark brown, damp, high plasticity, trace gravel.
					SC	CLAYEY SAND, fine to medium grained, dark olive brown, damp.
		0.0			CL	CLAY: gray, damp, high plasticity, with silt.
10		0.0			CL	@9' color change to very dark gray with faint iron oxide staining, trace medium grained sand.
					CL	SILTY CLAY: dark gray to olive gray, iron oxide mottling, damp, trace fine grained sand.
					CL	SANDY CLAY: dark gray to olive gray, iron oxide mottling, damp, trace fine grained sand.
					CL	SANDY CLAY WITH GRAVEL: dark gray to olive gray, iron oxide mottling, damp, trace fine grained sand, fine grained, subrounded to rounded gravel.
15		0.0			GC	CLAYEY GRAVEL WITH SAND: fine grained, light olive gray, damp, fine to coarse grained sand.
					SP	GRAVELLY SAND: coarse grained, brown, moist to wet, fine grained gravel, with fine grained sand and clay.
		0.0			CL	SILTY CLAY WITH GRAVEL: dark yellowish brown.
					GP	SANDY GRAVEL: fine grained, brown, wet, subrounded to subangular, coarse grained sand, gradational contact fining downward.
20					SW	SAND: fine grained, light olive brown with orange mottling, damp.

Concrete

Neat Cement

10-12-2007 J:\2293\BORING LOGS\2293 DP6.bor

ERI ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG DP6

Project No.:	: Former Exxon Service Station 7-0238
Site:	: 2200 E. 12th Street, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6783
Signature:	: Heidi Dieffenbach Carle

Date Drilled:	: 08/23/2007, 08/30/2007
Drilling Co.:	: Woodward Drilling
Drilling Method:	: Direct Push
Sampling Method:	: Continuous Core
Borehole Diameter:	: 2"
Casing Diameter:	: N/A
Location N-S	:
Location E-W	:
Total Depth:	: 30 fbgs
First GW Depth:	: NA

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 16'
- Second Encountered Water: NA

Boring: DP6

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
20		2.7			CL	SANDY CLAY: light olive brown, orange mottling, damp, stiff, fine grained sand. @20.5' 2-inch lense of gravelly sandy clay.
		0.0			SC	CLAYEY SAND: medium grained, yellowish brown, damp. @23.5' coarse and fine sand, trace gravel, moist to wet.
25		0.0			CL	SANDY CLAY: light yellowish brown, damp, very stiff, fine to medium grained sand, trace gravel, iron oxide staining of medium grained sand.
					GC	CLAYEY GRAVEL: fine to coarse grained, light olive brown, moist, wet along rock faces, clay matrix with fine to coarse sand.
30		0.0			CL	SILTY CLAY WITH SAND: light olive brown, damp, very stiff, trace black iron oxide, medium grained sand.
35						
40						

Neat Cement

Cleared to 8 fbgs using hand auger on 08/23/2007. Interval 2.5 fbgs to 3.8 fbgs cleared using air knife.

Groundwater sample attempted at 20-30 fbgs. No groundwater recovered.

Total Depth @ 30.0 fbgs on 08/30/2007

10-12-2007 J:\2293\BORING LOGS\2293 DP6.bor

ATTACHMENT E

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Calscience Environmental Laboratories, Inc.

August 23, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-1542**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/22/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/22/07
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5-DP2	**07-08-1542-1**	**08/20/07**	**Solid**	**GC 22**	**08/22/07**	**08/22/07**	**070822B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	83	42-126	

S-5-DP3	07-08-1542-2	08/20/07	Solid	GC 22	08/22/07	08/22/07	070822B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	85	42-126	

S-5-DP4	07-08-1542-3	08/20/07	Solid	GC 22	08/22/07	08/22/07	070822B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	84	42-126	

S-5-DP1	07-08-1542-4	08/21/07	Solid	GC 22	08/22/07	08/22/07	070822B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	84	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.		Date Received:	08/22/07
601 North McDowell Blvd.		Work Order No:	07-08-1542
Petaluma, CA 94954-2312		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,013**	**N/A**	**Solid**	**GC 22**	**08/22/07**	**08/22/07**	**070822B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	86	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/22/07
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5-DP2	**07-08-1542-1**	**08/20/07**	**Solid**	**GC/MS S**	**08/22/07**	**08/22/07**	**070822L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	102	71-113		

S-5-DP3	**07-08-1542-2**	**08/20/07**	**Solid**	**GC/MS S**	**08/22/07**	**08/22/07**	**070822L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	73-139			1,2-Dichloroethane-d4	109	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	102	71-113		

S-5-DP4	**07-08-1542-3**	**08/20/07**	**Solid**	**GC/MS S**	**08/22/07**	**08/22/07**	**070822L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	109	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	101	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/22/07
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5-DP1	**07-08-1542-4**	**08/21/07**	**Solid**	**GC/MS S**	**08/22/07**	**08/22/07**	**070822L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroethane-d4	109	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	100	71-113		

Method Blank	099-10-005-14,631	N/A	Solid	GC/MS S	08/22/07	08/22/07	070822L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	103	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/22/07
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-0741-3	**Solid**	**GC 22**	**08/22/07**	**08/22/07**	**070822S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	101	96	48-114	6	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/22/07
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1506-1	Solid	GC/MS S	08/21/07	08/22/07	070822S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	101	79-115	2	0-13	
Carbon Tetrachloride	90	93	55-139	3	0-15	
Chlorobenzene	99	101	79-115	2	0-17	
1,2-Dibromoethane	98	100	70-130	2	0-30	
1,2-Dichlorobenzene	96	100	63-123	3	0-23	
1,1-Dichloroethene	98	99	69-123	2	0-16	
Ethylbenzene	102	104	70-130	2	0-30	
Toluene	104	108	79-115	4	0-15	
Trichloroethene	98	100	66-144	1	0-14	
Vinyl Chloride	90	92	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	109	111	68-128	1	0-14	
Tert-Butyl Alcohol (TBA)	123	127	44-134	4	0-37	
Diisopropyl Ether (DIPE)	99	102	75-123	3	0-12	
Ethyl-t-Butyl Ether (ETBE)	101	104	75-117	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	105	79-115	3	0-12	
Ethanol	93	95	42-138	1	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,013	**Solid**	**GC 22**	**08/22/07**	**08/22/07**	**070822B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	113	114	70-124	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1542
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,631	Solid	GC/MS S	08/22/07	08/22/07	070822L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	102	84-114	4	0-7	
Carbon Tetrachloride	95	101	66-132	6	0-12	
Chlorobenzene	96	99	87-111	3	0-7	
1,2-Dibromoethane	97	98	80-120	1	0-20	
1,2-Dichlorobenzene	98	101	79-115	3	0-8	
1,1-Dichloroethene	94	101	73-121	7	0-12	
Ethylbenzene	98	102	80-120	4	0-20	
Toluene	96	102	78-114	6	0-7	
Trichloroethene	99	100	84-114	1	0-8	
Vinyl Chloride	93	98	63-129	6	0-15	
Methyl-t-Butyl Ether (MTBE)	84	93	77-125	10	0-11	
Tert-Butyl Alcohol (TBA)	77	100	47-137	26	0-27	
Diisopropyl Ether (DIPE)	103	102	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	100	100	76-124	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	101	82-118	1	0-11	
Ethanol	87	102	59-131	17	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-1542

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 07-1542

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by 8021B 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	S-5-DP2	DP2	8/20/07	11:11	SOIL	1		✓		✓	✓	✓		
2	S-5-DP3	DP3	↓	11:55	↓	1		✓		✓	✓	✓		
3	S-5-DP4	DP4	↓	13:20	↓	1		✓		✓	✓	✓		
4	S-5-DP1	DP1	8/21/07	12:30	↓	1		✓		✓	✓	✓		

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/21	Time: 1404
Relinquished by: (Signature)	Received by: (Signature)	Date: 8/22/07	Time: 0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 1542

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI DATE: 8/22/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
5.3 °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

Calscience Environmental Laboratories, Inc.

September 05, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-09-0009**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/1/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile de Guia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP1	**07-09-0009-1**	**08/31/07**	**Solid**	**GC 22**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	79	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-20-DP1	**07-09-0009-2**	**08/31/07**	**Solid**	**GC 22**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	80	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP1	**07-09-0009-3**	**08/31/07**	**Solid**	**GC 22**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	79	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,051**	**N/A**	**Solid**	**GC 22**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	83	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP1	**07-09-0009-1**	**08/31/07**	**Solid**	**GC/MS W**	**09/01/07**	**09/01/07**	**070901L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	95	71-113		

S-20-DP1	**07-09-0009-2**	**08/31/07**	**Solid**	**GC/MS W**	**09/01/07**	**09/01/07**	**070901L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	73-139			1,2-Dichloroethane-d4	123	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	90	71-113		

S-25-DP1	**07-09-0009-3**	**08/31/07**	**Solid**	**GC/MS W**	**09/01/07**	**09/01/07**	**070901L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	73-139			1,2-Dichloroethane-d4	120	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	94	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-14,685**	**N/A**	**Solid**	**GC/MS W**	**09/01/07**	**09/01/07**	**070901L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroethane-d4	112	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	92	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-2217-7	**Solid**	**GC 22**	**09/01/07**	**09/01/07**	**070901S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	47	69	48-114	37	0-23	3,4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-2043-21	Solid	GC/MS W	09/01/07	09/01/07	070901S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	103	79-115	3	0-13	
Carbon Tetrachloride	102	102	55-139	0	0-15	
Chlorobenzene	100	95	79-115	5	0-17	
1,2-Dibromoethane	107	103	70-130	4	0-30	
1,2-Dichlorobenzene	103	98	63-123	5	0-23	
1,1-Dichloroethene	106	98	69-123	7	0-16	
Ethylbenzene	106	103	70-130	3	0-30	
Toluene	104	103	79-115	1	0-15	
Trichloroethene	99	98	66-144	1	0-14	
Vinyl Chloride	93	85	60-126	9	0-14	
Methyl-t-Butyl Ether (MTBE)	96	93	68-128	3	0-14	
Tert-Butyl Alcohol (TBA)	111	108	44-134	3	0-37	
Diisopropyl Ether (DIPE)	122	123	75-123	1	0-12	
Ethyl-t-Butyl Ether (ETBE)	109	108	75-117	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	105	79-115	0	0-12	
Ethanol	144	142	42-138	1	0-28	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,051	Solid	GC 22	09/01/07	09/01/07	070901B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	104	103	70-124	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0009
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,685	Solid	GC/MS W	09/01/07	09/01/07	070901L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	104	84-114	3	0-7	
Carbon Tetrachloride	106	98	66-132	8	0-12	
Chlorobenzene	106	102	87-111	3	0-7	
1,2-Dibromoethane	109	104	80-120	5	0-20	
1,2-Dichlorobenzene	107	103	79-115	3	0-8	
1,1-Dichloroethene	104	99	73-121	5	0-12	
Ethylbenzene	109	105	80-120	4	0-20	
Toluene	107	106	78-114	1	0-7	
Trichloroethene	103	99	84-114	3	0-8	
Vinyl Chloride	92	91	63-129	1	0-15	
Methyl-t-Butyl Ether (MTBE)	93	90	77-125	4	0-11	
Tert-Butyl Alcohol (TBA)	109	100	47-137	8	0-27	
Diisopropyl Ether (DIPE)	125	123	76-130	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	112	111	76-124	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	109	82-118	1	0-11	
Ethanol	116	101	59-131	14	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-09-0009

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 8-31-07

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE) Rebekah Armstrup

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 09-0009

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	~~TPHd by 8015B~~	TPHg by 8015B	~~Methanol by 8015B~~	BTEX by 8021B/8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	~~Ethanol by 8260B~~	Total Lead by 6010B
	[redacted]		[redacted]		[redacted]	[redacted]								
1	S-10-DP1	DP1	8-31-07	8:00	SOIL	SLEEVE		X		X	X	X		
2	S-20-DP1	DP1	"	10:25	"	1		X		X	X	X		
3	S-25-DP1	DP1	"	11:00	"	1		X		X	X	X		

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 8/31/07	Time: 11:25
Relinquished by: (Signature) TO GSO	Received by: (Signature) GZ	Date: 9/1/07	Time: 10:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 09 - 0009

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI DATE: 09/01/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet Ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4.8 °C IR thermometer.
_____ Ambient temperature.

Initial: HH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: HH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: HH

COMMENTS:

Calscience Environmental Laboratories, Inc.

September 06, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-09-0107**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/5/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/05/07
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-30-DP1	**07-09-0107-1**	**08/31/07**	**Solid**	**GC 22**	**09/05/07**	**09/05/07**	**070905B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	73	42-126	

Method Blank	099-12-279-1,056	N/A	Solid	GC 22	09/05/07	09/05/07	070905B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	79	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/05/07
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-30-DP1	**07-09-0107-1**	**08/31/07**	**Solid**	**GC/MS Q**	**09/05/07**	**09/05/07**	**070905L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	73-139			1,2-Dichloroethane-d4	116	73-145		
Toluene-d8	96	90-108			1,4-Bromofluorobenzene	91	71-113		

Method Blank	099-10-005-14,702	N/A	Solid	GC/MS Q	09/05/07	09/05/07	070905L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	73-139			1,2-Dichloroethane-d4	123	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	92	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/05/07
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-30-DP1	**Solid**	**GC 22**	**09/05/07**	**09/05/07**	**070905S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	95	93	48-114	2	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/05/07
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-2046-2	Solid	GC/MS Q	09/05/07	09/05/07	070905S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	113	109	79-115	4	0-13	
Carbon Tetrachloride	131	126	55-139	4	0-15	
Chlorobenzene	119	114	79-115	4	0-17	3
1,2-Dibromoethane	127	125	70-130	2	0-30	
1,2-Dichlorobenzene	116	117	63-123	1	0-23	
1,1-Dichloroethene	146	151	69-123	3	0-16	3
Ethylbenzene	120	115	70-130	4	0-30	
Toluene	119	114	79-115	4	0-15	3
Trichloroethene	207	200	66-144	3	0-14	3
Vinyl Chloride	115	110	60-126	4	0-14	
Methyl-t-Butyl Ether (MTBE)	130	128	68-128	2	0-14	3
Tert-Butyl Alcohol (TBA)	110	116	44-134	6	0-37	
Diisopropyl Ether (DIPE)	93	91	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	129	128	75-117	0	0-12	3
Tert-Amyl-Methyl Ether (TAME)	135	134	79-115	1	0-12	3
Ethanol	90	96	42-138	6	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,056	Solid	GC 22	09/05/07	09/05/07	070905B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	98	99	70-124	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0107
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,702	Solid	GC/MS Q	09/05/07	09/05/07	070905L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	95	84-114	1	0-7	
Carbon Tetrachloride	116	115	66-132	1	0-12	
Chlorobenzene	102	101	87-111	1	0-7	
1,2-Dibromoethane	113	115	80-120	2	0-20	
1,2-Dichlorobenzene	109	111	79-115	2	0-8	
1,1-Dichloroethene	103	102	73-121	1	0-12	
Ethylbenzene	103	100	80-120	3	0-20	
Toluene	100	100	78-114	1	0-7	
Trichloroethene	96	99	84-114	3	0-8	
Vinyl Chloride	104	102	63-129	2	0-15	
Methyl-t-Butyl Ether (MTBE)	117	121	77-125	4	0-11	
Tert-Butyl Alcohol (TBA)	109	112	47-137	3	0-27	
Diisopropyl Ether (DIPE)	85	89	76-130	5	0-8	
Ethyl-t-Butyl Ether (ETBE)	117	124	76-124	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	119	122	82-118	2	0-11	X
Ethanol	106	113	59-131	6	0-21	

Note "X" : The percent recovery is above acceptable control limits. The samples and method blank associated with this batch are non-detect, and therefore, the results have been reported without further clarification.

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-09-0107

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

P.O. NO.: 4508212427

PROJECT CONTACT: **Paula Sime/ERI**

QUOTE NO.:

SAMPLER(S): (SIGNATURE)

LAB USE ONLY: 09-0107

TURNAROUND TIME

☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS

Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by 8021B 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
	S-30-DPI	DPI	8/31/07	11:40	Soil Water			X		X	X	X		

Relinquished by: (Signature)

Received by: (Signature)

Date: 9/4/07 Time: 11:42

Relinquished by: (Signature) (to GSO)

Received by: (Signature)

Date: 9/5/07 Time: 1000

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 09 - 0107

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI DATE: 9/5/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
5.1 °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

Calscience Environmental Laboratories, Inc.

August 30, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-1992**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/29/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10.5-DP2	**07-08-1992-1**	**08/27/07**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	85	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-15-DP2	**07-08-1992-2**	**08/27/07**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	85	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-20-DP2	**07-08-1992-3**	**08/27/07**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	85	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP2	**07-08-1992-4**	**08/27/07**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	85	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP2	**07-08-1992-5**	**08/27/07**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene - FID	83	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP3	**07-08-1992-6**	**08/28/07**	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene - FID	89	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-15-DP3	**07-08-1992-7**	**08/28/07**	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene - FID	87	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-20-DP3	**07-08-1992-8**	**08/28/07**	**Solid**	**GC 18**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene - FID	90	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP3	**07-08-1992-9**	**08/28/07**	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	89	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP3	**07-08-1992-10**	**08/28/07**	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	90	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,037**	**N/A**	**Solid**	**GC 22**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	86	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,039**	**N/A**	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	90	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,040**	**N/A**	**Solid**	**GC 18**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	90	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10.5-DP2	**07-08-1992-1**	**08/27/07**	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	73-139			1,2-Dichloroethane-d4	110	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	105	71-113		

S-15-DP2	**07-08-1992-2**	**08/27/07**	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	5.8	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	112	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	105	71-113		

S-20-DP2	**07-08-1992-3**	**08/27/07**	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	6.8	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	73-139			1,2-Dichloroethane-d4	113	73-145		
Toluene-d8	106	90-108			1,4-Bromofluorobenzene	104	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP2	**07-08-1992-4**	**08/27/07**	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	73-139			1,2-Dichloroethane-d4	112	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	105	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP2	**07-08-1992-5**	**08/27/07**	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	111	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	104	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP3	**07-08-1992-6**	**08/28/07**	**Solid**	**GC/MS JJ**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	102	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-15-DP3	**07-08-1992-7**	**08/28/07**	**Solid**	**GC/MS JJ**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	16	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	940	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	73-139			1,2-Dichloroethane-d4	106	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	100	71-113		

S-20-DP3	07-08-1992-8	08/28/07	Solid	GC/MS JJ	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	102	71-113		

S-25-DP3	07-08-1992-9	08/28/07	Solid	GC/MS JJ	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	102	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP3	**07-08-1992-10**	**08/28/07**	**Solid**	**GC/MS JJ**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	73-139			1,2-Dichloroethane-d4	104	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	101	71-113		

Method Blank	099-10-005-14,667	N/A	Solid	GC/MS S	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	73-139			1,2-Dichloroethane-d4	110	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	104	71-113		

Method Blank	099-10-005-14,668	N/A	Solid	GC/MS JJ	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	73-139			1,2-Dichloroethane-d4	103	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	98	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-25-DP3	**Solid**	**GC 18**	**08/29/07**	**08/29/07**	**070829S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	73	70	48-114	3	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1903-3	Solid	GC 22	08/29/07	08/29/07	070829S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	92	48-114	2	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-20-DP3	**Solid**	**GC 18**	**08/30/07**	**08/30/07**	**070830S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	84	85	48-114	1	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-10.5-DP2	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	105	79-115	2	0-13	
Carbon Tetrachloride	117	120	55-139	3	0-15	
Chlorobenzene	86	88	79-115	3	0-17	
1,2-Dibromoethane	86	90	70-130	4	0-30	
1,2-Dichlorobenzene	81	84	63-123	3	0-23	
1,1-Dichloroethene	113	115	69-123	2	0-16	
Ethylbenzene	87	89	70-130	3	0-30	
Toluene	104	107	79-115	3	0-15	
Trichloroethene	105	100	66-144	4	0-14	
Vinyl Chloride	105	104	60-126	1	0-14	
Methyl-t-Butyl Ether (MTBE)	101	120	68-128	17	0-14	4
Tert-Butyl Alcohol (TBA)	80	110	44-134	32	0-37	
Diisopropyl Ether (DIPE)	123	125	75-123	2	0-12	3
Ethyl-t-Butyl Ether (ETBE)	119	125	75-117	4	0-12	3
Tert-Amyl-Methyl Ether (TAME)	105	111	79-115	5	0-12	
Ethanol	111	112	42-138	1	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-29.5-DP3	Solid	GC/MS JJ	08/29/07	08/29/07	070829S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	80	89	79-115	12	0-13	
Carbon Tetrachloride	88	102	55-139	15	0-15	
Chlorobenzene	79	89	79-115	12	0-17	
1,2-Dibromoethane	81	93	70-130	14	0-30	
1,2-Dichlorobenzene	75	86	63-123	13	0-23	
1,1-Dichloroethene	78	87	69-123	11	0-16	
Ethylbenzene	81	91	70-130	12	0-30	
Toluene	82	93	79-115	13	0-15	
Trichloroethene	80	94	66-144	15	0-14	4
Vinyl Chloride	106	81	60-126	26	0-14	4
Methyl-t-Butyl Ether (MTBE)	81	90	68-128	11	0-14	
Tert-Butyl Alcohol (TBA)	96	95	44-134	0	0-37	
Diisopropyl Ether (DIPE)	85	99	75-123	15	0-12	4
Ethyl-t-Butyl Ether (ETBE)	89	99	75-117	11	0-12	
Tert-Amyl-Methyl Ether (TAME)	83	93	79-115	11	0-12	
Ethanol	100	100	42-138	0	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,039	Solid	GC 18	08/29/07	08/29/07	070829B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	100	70-124	7	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,037	Solid	GC 22	08/29/07	08/29/07	070829B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	111	111	70-124	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,040	**Solid**	**GC 18**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	92	101	70-124	9	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,667	**Solid**	**GC/MS S**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	106	84-114	0	0-7	
Carbon Tetrachloride	125	117	66-132	7	0-12	
Chlorobenzene	90	90	87-111	0	0-7	
1,2-Dibromoethane	89	89	80-120	0	0-20	
1,2-Dichlorobenzene	89	87	79-115	2	0-8	
1,1-Dichloroethene	116	114	73-121	2	0-12	
Ethylbenzene	91	90	80-120	1	0-20	
Toluene	108	108	78-114	0	0-7	
Trichloroethene	108	107	84-114	1	0-8	
Vinyl Chloride	105	101	63-129	4	0-15	
Methyl-t-Butyl Ether (MTBE)	104	108	77-125	4	0-11	
Tert-Butyl Alcohol (TBA)	84	95	47-137	12	0-27	
Diisopropyl Ether (DIPE)	127	124	76-130	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	124	123	76-124	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	112	114	82-118	1	0-11	
Ethanol	104	113	59-131	9	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1992
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,668	Solid	GC/MS JJ	08/29/07	08/29/07	070829L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	103	84-114	2	0-7	
Carbon Tetrachloride	119	118	66-132	1	0-12	
Chlorobenzene	101	102	87-111	1	0-7	
1,2-Dibromoethane	100	101	80-120	1	0-20	
1,2-Dichlorobenzene	98	98	79-115	0	0-8	
1,1-Dichloroethene	103	103	73-121	0	0-12	
Ethylbenzene	106	107	80-120	1	0-20	
Toluene	106	107	78-114	1	0-7	
Trichloroethene	106	110	84-114	3	0-8	
Vinyl Chloride	101	100	63-129	1	0-15	
Methyl-t-Butyl Ether (MTBE)	99	101	77-125	2	0-11	
Tert-Butyl Alcohol (TBA)	121	133	47-137	9	0-27	
Diisopropyl Ether (DIPE)	106	108	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	107	110	76-124	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	102	82-118	2	0-11	
Ethanol	129	127	59-131	1	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-1992

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: **norcallabs@eri-us.com**

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 08-1992

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	~~TPHd by 8015B~~	TPHg by 8015B	~~Methanol by 8015B~~	BTEX by ~~8021B~~ 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	S-10.5-DP2		8/27/07	10:30	Soil	Sleeve		X		X	X	X		
2	S-15-DP2		8/27	10:40				X		X	X	X		
3	S-20-DP2		8/27	11:05				X		X	X	X		
4	S-25-DP2		8/27	11:30				X		X	X	X		
5	S-29.5-DP2		8/27	11:45				X		X	X	X		
6	S-10-DP3		8/28/07	10:00				X		X	X	X		
7	S-15-DP3		8/28	10:40				X		X	X	X		
8	S-20-DP3		8/28	11:45				X		X	X	X		
9	S-25-DP3		8/28	12:15				X		X	X	X		
10	S-29.5-DP3		8/28/07	12:46	↓	↓		X		X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/28/07	Time: 1434
Relinquished by: (Signature) to GTEL	Received by: (Signature)	Date: 8/29/07	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 1992

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERD **DATE:** 8/29/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.9 °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

August 31, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-2076**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/30/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP4	**07-08-2076-1**	**08/29/07**	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	77	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-14.5-DP4	**07-08-2076-2**	**08/29/07**	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	76	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-19.5-DP4	**07-08-2076-3**	**08/29/07**	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	77	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25.5-DP4	**07-08-2076-4**	**08/29/07**	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	77	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP4	**07-08-2076-5**	**08/29/07**	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	74	42-126	

Method Blank	099-12-279-1,042	N/A	Solid	GC 24	08/30/07	08/30/07	070830B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	78	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP4	**07-08-2076-1**	**08/29/07**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	180	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	91	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-14.5-DP4	**07-08-2076-2**	**08/29/07**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	660	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	1300	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	91	71-113		

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-19.5-DP4	**07-08-2076-3**	**08/29/07**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	92	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25.5-DP4	**07-08-2076-4**	**08/29/07**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	73-139			1,2-Dichloroethane-d4	122	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	92	71-113		

S-29.5-DP4	**07-08-2076-5**	**08/29/07**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	115	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	91	71-113		

Method Blank	**099-10-005-14,673**	**N/A**	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-10-DP4	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	92	67	48-114	32	0-23	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/30/07
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-2047-5	**Solid**	**GC/MS W**	**08/30/07**	**08/30/07**	**070830S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	104	79-115	3	0-13	
Carbon Tetrachloride	100	105	55-139	6	0-15	
Chlorobenzene	97	99	79-115	2	0-17	
1,2-Dibromoethane	101	105	70-130	4	0-30	
1,2-Dichlorobenzene	94	98	63-123	4	0-23	
1,1-Dichloroethene	98	103	69-123	5	0-16	
Ethylbenzene	99	101	70-130	2	0-30	
Toluene	101	104	79-115	3	0-15	
Trichloroethene	102	112	66-144	9	0-14	
Vinyl Chloride	87	89	60-126	2	0-14	
Methyl-t-Butyl Ether (MTBE)	89	96	68-128	7	0-14	
Tert-Butyl Alcohol (TBA)	100	109	44-134	8	0-37	
Diisopropyl Ether (DIPE)	119	126	75-123	6	0-12	3
Ethyl-t-Butyl Ether (ETBE)	106	113	75-117	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	111	79-115	8	0-12	
Ethanol	105	106	42-138	1	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,042	**Solid**	**GC 24**	**08/30/07**	**08/30/07**	**070830B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	93	70-124	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-2076
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,673	Solid	GC/MS W	08/30/07	08/30/07	070830L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	101	84-114	1	0-7	
Carbon Tetrachloride	101	100	66-132	1	0-12	
Chlorobenzene	98	94	87-111	4	0-7	
1,2-Dibromoethane	99	100	80-120	1	0-20	
1,2-Dichlorobenzene	98	94	79-115	5	0-8	
1,1-Dichloroethene	99	95	73-121	4	0-12	
Ethylbenzene	100	96	80-120	4	0-20	
Toluene	103	100	78-114	2	0-7	
Trichloroethene	96	95	84-114	1	0-8	
Vinyl Chloride	90	90	63-129	0	0-15	
Methyl-t-Butyl Ether (MTBE)	86	90	77-125	4	0-11	
Tert-Butyl Alcohol (TBA)	96	100	47-137	4	0-27	
Diisopropyl Ether (DIPE)	119	120	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	107	108	76-124	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	105	82-118	1	0-11	
Ethanol	98	112	59-131	13	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-2076

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 8-29-07

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: **norcallabs@eri-us.com**

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE)
R. Westrup
H. Dieffenbach-Carlo

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 80 8 - 2 0 7 6

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by 8021B/8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	S-10-DP4	DP4	8/29/07	0950	Soil	1		X		X	X	X		
2	S-14.5-DP4	DP4	8/29/07	10:00	Soil	1		X		X	X	X		
3	S-19.5-DP4	DP4	8/29/07	1130	Soil	1		X		X	X	X		
4	S-25.5-DP4	DP4	8/29/07	12:50	Soil	1		X		X	X	X		
5	S-29.5 DP4	DP4	8/29/07	1315	Soil	1		X		X	X	X		

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 8/29/07	Time: 14:40
Relinquished by: (Signature) to GSD	Received by: (Signature)	Date: 8/30/07	Time: 0850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 2076

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI **DATE:** 8/30/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

5.8 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

Calscience Environmental Laboratories, Inc.

August 27, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-1733**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/24/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/24/07
Work Order No: 07-08-1733
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5.0-DP6	**07-08-1733-1**	**08/22/07**	**Solid**	**GC 22**	**08/24/07**	**08/24/07**	**070824B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	79	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5.0-DP5	**07-08-1733-2**	**08/23/07**	**Solid**	**GC 22**	**08/24/07**	**08/24/07**	**070824B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	81	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,022**	**N/A**	**Solid**	**GC 22**	**08/24/07**	**08/24/07**	**070824B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	85	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received:	08/24/07
Work Order No:	07-08-1733
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-5.0-DP6	**07-08-1733-1**	**08/22/07**	**Solid**	**GC/MS Q**	**08/24/07**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	8.1	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	73-139		1,2-Dichloroethane-d4	110	73-145	
Toluene-d8	97	90-108		1,4-Bromofluorobenzene	84	71-113	

S-5.0-DP5	**07-08-1733-2**	**08/23/07**	**Solid**	**GC/MS Q**	**08/24/07**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	6.6	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	73-139		1,2-Dichloroethane-d4	115	73-145	
Toluene-d8	96	90-108		1,4-Bromofluorobenzene	85	71-113	

Method Blank	**099-10-005-14,655**	**N/A**	**Solid**	**GC/MS Q**	**08/24/07**	**08/24/07**	**070824L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	73-139		1,2-Dichloroethane-d4	105	73-145	
Toluene-d8	96	90-108		1,4-Bromofluorobenzene	94	71-113	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/24/07
Work Order No: 07-08-1733
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1651-3	Solid	GC 22	08/24/07	08/24/07	070824S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	57	56	48-114	2	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/24/07
Work Order No: 07-08-1733
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1672-3	Solid	GC/MS Q	08/24/07	08/24/07	070824S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetone	125	126	70-130	1	0-20	
Benzene	116	100	78-114	15	0-14	3,4
Bromobenzene	121	106	70-130	13	0-20	
Bromochloromethane	128	113	70-130	12	0-20	
Bromodichloromethane	136	118	70-130	14	0-20	3
Bromoform	134	117	70-130	13	0-20	3
Bromomethane	104	115	70-130	10	0-20	
2-Butanone	118	104	70-130	12	0-20	
n-Butylbenzene	103	94	70-130	10	0-20	
sec-Butylbenzene	112	99	70-130	12	0-20	
tert-Butylbenzene	122	105	70-130	14	0-20	
Carbon Disulfide	116	103	70-130	12	0-20	
Carbon Tetrachloride	123	108	48-138	13	0-20	
Chlorobenzene	120	105	77-107	14	0-17	3
Chloroethane	109	116	70-130	6	0-20	
Chloroform	123	110	70-130	11	0-20	
Chloromethane	104	113	70-130	8	0-20	
2-Chlorotoluene	112	103	70-130	8	0-20	
4-Chlorotoluene	125	108	70-130	15	0-20	
Dibromochloromethane	132	117	70-130	12	0-20	3
1,2-Dibromo-3-Chloropropane	142	114	70-130	22	0-20	3,4
1,2-Dibromoethane	134	117	70-130	14	0-20	3
Dibromomethane	131	117	70-130	11	0-20	3
1,2-Dichlorobenzene	127	106	62-110	18	0-25	3
1,3-Dichlorobenzene	122	104	70-130	16	0-20	
1,4-Dichlorobenzene	119	103	70-130	15	0-20	
Dichlorodifluoromethane	101	106	70-130	5	0-20	
1,1-Dichloroethane	114	101	70-130	12	0-20	
1,2-Dichloroethane	128	112	70-130	13	0-20	
1,1-Dichloroethene	117	104	73-127	12	0-21	
c-1,2-Dichloroethene	123	108	70-130	13	0-20	
t-1,2-Dichloroethene	119	105	70-130	13	0-20	
1,2-Dichloropropane	121	103	70-130	15	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/24/07
Work Order No: 07-08-1733
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1672-3	Solid	GC/MS Q	08/24/07	08/24/07	070824S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,3-Dichloropropane	129	112	70-130	14	0-20	
2,2-Dichloropropane	144	128	70-130	12	0-20	3
1,1-Dichloropropene	107	96	70-130	11	0-20	
c-1,3-Dichloropropene	134	113	70-130	17	0-20	3
t-1,3-Dichloropropene	148	129	70-130	14	0-20	3
Ethylbenzene	120	107	70-130	11	0-20	
2-Hexanone	124	110	70-130	12	0-20	
Isopropylbenzene	116	105	70-130	10	0-20	
p-Isopropyltoluene	112	99	70-130	12	0-20	
Methylene Chloride	118	106	70-130	11	0-20	
4-Methyl-2-Pentanone	128	110	70-130	15	0-20	
Naphthalene	118	99	70-130	18	0-20	
n-Propylbenzene	110	101	70-130	8	0-20	
Styrene	125	114	70-130	10	0-20	
1,1,1,2-Tetrachloroethane	131	115	70-130	13	0-20	3
1,1,2,2-Tetrachloroethane	128	112	70-130	13	0-20	
Tetrachloroethene	115	103	70-130	11	0-20	
Toluene	121	104	74-116	15	0-16	3
1,2,3-Trichlorobenzene	100	86	70-130	15	0-20	
1,2,4-Trichlorobenzene	100	86	70-130	15	0-20	
1,1,1-Trichloroethane	124	111	70-130	11	0-20	
1,1,2-Trichloroethane	127	114	70-130	11	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	120	108	70-130	11	0-20	
Trichloroethene	113	97	74-122	14	0-17	
Trichlorofluoromethane	96	99	70-130	3	0-20	
1,2,3-Trichloropropane	131	113	70-130	15	0-20	3
1,2,4-Trimethylbenzene	125	109	70-130	13	0-20	
1,3,5-Trimethylbenzene	110	103	70-130	7	0-20	
Vinyl Chloride	102	107	67-121	4	0-23	
p/m-Xylene	121	109	70-130	10	0-20	
o-Xylene	121	110	70-130	9	0-20	
Methyl-t-Butyl Ether (MTBE)	130	115	69-123	12	0-18	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1733
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,022	**Solid**	**GC 22**	**08/24/07**	**08/24/07**	**070824B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	117	107	70-124	9	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received:	N/A
Work Order No:	07-08-1733
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,655	Solid	GC/MS Q	08/24/07	08/24/07	070824L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	94	84-114	1	0-7	
Carbon Tetrachloride	97	101	66-132	4	0-12	
Chlorobenzene	97	101	87-111	4	0-7	
1,2-Dibromoethane	96	99	80-120	4	0-20	
1,2-Dichlorobenzene	100	101	79-115	1	0-8	
1,1-Dichloroethene	97	100	73-121	3	0-12	
Ethylbenzene	102	106	80-120	4	0-20	
Toluene	99	101	78-114	2	0-7	
Trichloroethene	94	95	84-114	1	0-8	
Vinyl Chloride	104	103	63-129	1	0-15	
Methyl-t-Butyl Ether (MTBE)	88	89	77-125	2	0-11	
Tert-Butyl Alcohol (TBA)	94	91	47-137	4	0-27	
Diisopropyl Ether (DIPE)	91	93	76-130	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	95	99	76-124	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	102	82-118	2	0-11	
Ethanol	93	87	59-131	8	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-1733

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE) Heidi Dieffenbach-Earle

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 08-1733

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by ~~8021B~~ 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
	S-5.0-DP6	DP6	8-22-07	1130	soil	1		X		X	X	X		
	S-5.0-DP5	DP5	8-23-07	1120	soil	1		X		X	X	X		

Relinquished by: (Signature) Heidi Dieffenbach-Earle	Received by: (Signature)	Date: 8-23-07	Time: 1235
Relinquished by: (Signature) to GSO	Received by: (Signature)	Date: 082407	Time: 1020
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 1733

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Exxon mobil **DATE:** 08-24-07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

1.5 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: _____

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: _____

Initial: _____

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: _____

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

September 07, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-09-0210**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/6/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 3050B
Method: EPA 6010B

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1 (Composite)	**07-09-0210-6**	**09/05/07**	**Solid**	**ICP 5300**	**09/06/07**	**09/06/07**	**070906L06**

Parameter	Result	RL	DF	Qual	Units
Lead	33.7	0.500	1		mg/kg

Method Blank	097-01-002-9,785	N/A	Solid	ICP 5300	09/06/07	09/06/07	070906L06

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP5	**07-09-0210-1**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	91	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-14.5-DP5	**07-09-0210-2**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	90	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-20-DP5	**07-09-0210-3**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	91	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP5	**07-09-0210-4**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	92	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP5	**07-09-0210-5**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	92	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP-1 (Composite)	**07-09-0210-6**	**09/05/07**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	92	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,060**	**N/A**	**Solid**	**GC 18**	**09/06/07**	**09/06/07**	**070906B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	91	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP5	**07-09-0210-1**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	73-139			1,2-Dichloroethane-d4	112	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	91	71-113		

S-14.5-DP5	**07-09-0210-2**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	113	73-139			1,2-Dichloroethane-d4	117	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	91	71-113		

S-20-DP5	**07-09-0210-3**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	7.8	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	73-139			1,2-Dichloroethane-d4	121	73-145		
Toluene-d8	104	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP5	**07-09-0210-4**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	73-139			1,2-Dichloroethane-d4	125	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	92	71-113		

S-29.5-DP5	**07-09-0210-5**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	124	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	91	71-113		

SP-1 (Composite)	**07-09-0210-6**	**09/05/07**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	73-139			1,2-Dichloroethane-d4	113	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	90	71-113		

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-14,711**	**N/A**	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	73-139			1,2-Dichloroethane-d4	118	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	92	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 3050B
Method: EPA 6010B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0195-1	Solid	ICP 5300	09/06/07	09/06/07	070906S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	82	82	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0172-5	Solid	GC 18	09/06/07	09/06/07	070906S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	101	97	48-114	4	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/06/07
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14.5-DP5	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	84	100	79-115	18	0-13	4
Carbon Tetrachloride	83	99	55-139	17	0-15	4
Chlorobenzene	83	93	79-115	11	0-17	
1,2-Dibromoethane	85	95	70-130	12	0-30	
1,2-Dichlorobenzene	80	93	63-123	15	0-23	
1,1-Dichloroethene	83	97	69-123	16	0-16	
Ethylbenzene	82	96	70-130	15	0-30	
Toluene	84	101	79-115	18	0-15	4
Trichloroethene	81	96	66-144	17	0-14	4
Vinyl Chloride	91	78	60-126	15	0-14	4
Methyl-t-Butyl Ether (MTBE)	73	77	68-128	5	0-14	
Tert-Butyl Alcohol (TBA)	79	79	44-134	0	0-37	
Diisopropyl Ether (DIPE)	100	113	75-123	12	0-12	
Ethyl-t-Butyl Ether (ETBE)	90	96	75-117	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	86	99	79-115	15	0-12	4
Ethanol	79	104	42-138	27	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0210
Preparation: EPA 3050B
Method: EPA 6010B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-9,785	Solid	ICP 5300	09/06/07	070906-I-06	070906L06

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	25.0	26.7	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Environmental Resolutions, Inc.	Date Received: N/A
601 North McDowell Blvd.	Work Order No: 07-09-0210
Petaluma, CA 94954-2312	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-12-279-1,060	Solid	GC 18	09/06/07	004F0401	070906B01

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Gasoline	10.0	12.4	124	70-124	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0210
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-14,711	**Solid**	**GC/MS W**	**09/06/07**	**09/06/07**	**070906L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	104	84-114	3	0-7	
Carbon Tetrachloride	108	105	66-132	3	0-12	
Chlorobenzene	104	102	87-111	3	0-7	
1,2-Dibromoethane	107	107	80-120	0	0-20	
1,2-Dichlorobenzene	105	103	79-115	2	0-8	
1,1-Dichloroethene	104	104	73-121	1	0-12	
Ethylbenzene	107	105	80-120	2	0-20	
Toluene	108	105	78-114	2	0-7	
Trichloroethene	101	101	84-114	1	0-8	
Vinyl Chloride	91	84	63-129	8	0-15	
Methyl-t-Butyl Ether (MTBE)	88	94	77-125	6	0-11	
Tert-Butyl Alcohol (TBA)	103	115	47-137	11	0-27	
Diisopropyl Ether (DIPE)	118	116	76-130	2	0-8	
Ethyl-t-Butyl Ether (ETBE)	106	103	76-124	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	103	82-118	0	0-11	
Ethanol	108	115	59-131	5	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-09-0210

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 9/5/07

PAGE: 1 OF 1

LABORATORY CLIENT: Exxon Mobil Refining & Supply - Global Remediation

ADDRESS: c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: (707) 766-2000 | FAX: (707) 789-0414 | E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: 229303X / 7-0238

P.O. NO.: 4508212427

PROJECT CONTACT: Paula Sime/ERI

QUOTE NO.:

SAMPLER(S): (SIGNATURE) Rebekah Westrup

LAB USE ONLY: 09-0210

TURNAROUND TIME: ☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS

Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

Composite S-SP1 through S5P4 into SP-1

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by 8021B 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	S-10-DP5	DP5	9/5/07	10:20	S	1		X		X	X	X		
2	S-14.5-DP5	DP5	"	10:50	"	"		X		X	X	X		
3	S-20-DP5	DP5	"	11:25	"	"		X		X	X	X		
4	S-25-DP5	DP5	"	11:35	"	"		X		X	X	X		
5	S-29.5-DP5	DP5	"	11:55	"	"		X		X	X	X		
6	~~S-(SP1-SP4)~~ SP-1	SP	"	13:10	W	4		X		X	X	X		X

Relinquished by: (Signature)	Received by: (Signature) CEL	Date: 9-5-07	Time: 14:30
Relinquished by: (Signature) 0650	Received by: (Signature) Stanford	Date: 090607	Time: 1030
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 09 - 0210

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Exxon mob.1 **DATE:** 09.06.07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

7.8 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: SF

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: SF

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: SF

COMMENTS:

Calscience Environmental Laboratories, Inc.

September 04, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-2159**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/31/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP6	**07-08-2159-1**	**08/30/07**	**Solid**	**GC 4**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	108	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-14.5-DP6	**07-08-2159-2**	**08/30/07**	**Solid**	**GC 11**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	66	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-19.5-DP6	**07-08-2159-3**	**08/30/07**	**Solid**	**GC 11**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	68	42-126			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP6	**07-08-2159-4**	**08/30/07**	**Solid**	**GC 4**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene - FID	120	42-126			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-29.5-DP6	**07-08-2159-5**	**08/30/07**	**Solid**	**GC 4**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	127	42-126	2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,045**	**N/A**	**Solid**	**GC 4**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	105	42-126	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-279-1,046**	**N/A**	**Solid**	**GC 11**	**08/31/07**	**08/31/07**	**070831B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	65	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-10-DP6	**07-08-2159-1**	**08/30/07**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	540	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	73-139			1,2-Dichloroethane-d4	96	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	96	71-113		

S-14.5-DP6	**07-08-2159-2**	**08/30/07**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	73-139			1,2-Dichloroethane-d4	97	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	96	71-113		

S-19.5-DP6	**07-08-2159-3**	**08/30/07**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	990	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	55	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	73-139			1,2-Dichloroethane-d4	97	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	95	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
S-25-DP6	**07-08-2159-4**	**08/30/07**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	73-139			1,2-Dichloroethane-d4	97	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	95	71-113		

S-29.5-DP6	**07-08-2159-5**	**08/30/07**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	73-139			1,2-Dichloroethane-d4	99	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	96	71-113		

Method Blank	**099-10-005-14,682**	**N/A**	**Solid**	**GC/MS Z**	**08/31/07**	**08/31/07**	**070831L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
Ethylbenzene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
Toluene	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
p/m-Xylene	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	73-139			1,2-Dichloroethane-d4	101	73-145		
Toluene-d8	100	90-108			1,4-Bromofluorobenzene	95	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-10-DP6	**Solid**	**GC 4**	**08/31/07**	**08/31/07**	**070831S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	108	106	48-114	1	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14.5-DP6	**Solid**	**GC 11**	**08/31/07**	**08/31/07**	**070831S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	104	104	48-114	0	0-23	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/31/07
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-2125-12	Solid	GC/MS Z	08/31/07	08/31/07	070831S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	79-115	1	0-13	
Carbon Tetrachloride	83	85	55-139	2	0-15	
Chlorobenzene	103	105	79-115	2	0-17	
1,2-Dibromoethane	102	101	70-130	1	0-30	
1,2-Dichlorobenzene	100	103	63-123	3	0-23	
1,1-Dichloroethene	97	97	69-123	0	0-16	
Ethylbenzene	106	108	70-130	2	0-30	
Toluene	103	104	79-115	1	0-15	
Trichloroethene	100	100	66-144	0	0-14	
Vinyl Chloride	93	90	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	94	93	68-128	0	0-14	
Tert-Butyl Alcohol (TBA)	91	79	44-134	15	0-37	
Diisopropyl Ether (DIPE)	96	99	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	97	99	75-117	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	100	79-115	2	0-12	
Ethanol	90	74	42-138	16	0-28	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,045	Solid	GC 4	08/31/07	08/31/07	070831B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	113	117	70-124	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-1,046	Solid	GC 11	08/31/07	08/31/07	070831B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	113	113	70-124	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-2159
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-005-14,682	Solid	GC/MS Z	08/31/07	31AUG004.rr	070831L01

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Benzene	250	264	106	84-114	
Carbon Tetrachloride	250	253	101	66-132	
Chlorobenzene	250	273	109	87-111	
1,2-Dibromoethane	250	270	108	80-120	
1,2-Dichlorobenzene	250	268	107	79-115	
1,1-Dichloroethene	250	269	108	73-121	
Ethylbenzene	250	287	115	80-120	
Toluene	250	273	109	78-114	
Trichloroethene	250	276	110	84-114	
Vinyl Chloride	250	258	103	63-129	
Methyl-t-Butyl Ether (MTBE)	250	252	101	77-125	
Tert-Butyl Alcohol (TBA)	1250	1420	114	47-137	
Diisopropyl Ether (DIPE)	250	263	105	76-130	
Ethyl-t-Butyl Ether (ETBE)	250	260	104	76-124	
Tert-Amyl-Methyl Ether (TAME)	250	260	104	82-118	
Ethanol	2500	2700	108	59-131	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-2159

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: norcallabs@eri-us.com

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

P.O. NO.: 4508212427

PROJECT CONTACT: **Paula Sime/ERI**

QUOTE NO.:

SAMPLER(S): (SIGNATURE) Rebekah Westrup

LAB USE ONLY: 08-2159

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPHd by 8015B	TPHg by 8015B	Methanol by 8015B	BTEX by 8021B 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	S-10-DP6	DP6	8/30/07	10:30	SOIL	1		X		X	X	X		
2	S-14.5-DP6	DP6	8/30/07	10:35	SOIL	1		X		X	X	X		
3	S-19.5-DP6	DP6	8/30/07	11:00	SOIL	1		X		X	X	X		
4	S-25-DP6	DP6	8/30/07	11:30	SOIL	1		X		X	X	X		
5	S-29.5-DP6	DP6	8/30/07	11:50	SOIL	1		X		X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/30/07	Time: 14:30
Relinquished by: (Signature)	Received by: (Signature)	Date: 8/31/07	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 2159

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI **DATE:** 8/31/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

5.1 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

Calscience Environmental Laboratories, Inc.

September 05, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-09-0010**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/1/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
W-19-DP6	**07-09-0010-1**	**08/31/07**	**Aqueous**	**GC 1**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1300	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	106	38-134			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
W-13-DP1	**07-09-0010-2**	**08/31/07**	**Aqueous**	**GC 1**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	105	38-134			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-436-861**	**N/A**	**Aqueous**	**GC 1**	**09/01/07**	**09/01/07**	**070901B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	92	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
W-19-DP6	**07-09-0010-1**	**08/31/07**	**Aqueous**	**GC/MS L**	**09/04/07**	**09/04/07**	**070904L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		o-Xylene	ND	50	100	
1,2-Dibromoethane	ND	50	100		Methyl-t-Butyl Ether (MTBE)	4800	100	200	
1,2-Dichloroethane	ND	50	100		Tert-Butyl Alcohol (TBA)	2900	1000	100	
Ethylbenzene	ND	50	100		Diisopropyl Ether (DIPE)	ND	50	100	
Toluene	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	50	100	
p/m-Xylene	ND	50	100		Tert-Amyl-Methyl Ether (TAME)	ND	50	100	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	115	73-157		Dibromofluoromethane	110	82-142	
Toluene-d8	102	82-112		1,4-Bromofluorobenzene	92	75-105	

W-13-DP1	07-09-0010-2	08/31/07	Aqueous	GC/MS L	09/04/07	09/04/07	070904L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	9.5	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	111	73-157		Dibromofluoromethane	107	82-142	
Toluene-d8	101	82-112		1,4-Bromofluorobenzene	95	75-105	

Method Blank	099-10-025-379	N/A	Aqueous	GC/MS L	09/04/07	09/04/07	070904L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	73-157		Dibromofluoromethane	108	82-142	
Toluene-d8	101	82-112		1,4-Bromofluorobenzene	93	75-105	

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
W-19-DP6	**Aqueous**	**GC 1**	**09/01/07**	**09/01/07**	**070901S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	67	69	68-122	1	0-18	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 09/01/07
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
W-13-DP1	**Aqueous**	**GC/MS L**	**09/04/07**	**09/04/07**	**070904S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	112	86-122	1	0-8	
Carbon Tetrachloride	118	119	78-138	1	0-9	
Chlorobenzene	106	108	90-120	2	0-9	
1,2-Dibromoethane	119	108	70-130	9	0-30	
1,2-Dichlorobenzene	106	106	89-119	0	0-10	
1,1-Dichloroethene	85	116	52-142	31	0-23	4
Ethylbenzene	110	114	70-130	3	0-30	
Toluene	114	114	85-127	1	0-12	
Trichloroethene	109	112	78-126	3	0-10	
Vinyl Chloride	98	102	56-140	4	0-21	
Methyl-t-Butyl Ether (MTBE)	131	95	64-136	17	0-28	
Tert-Butyl Alcohol (TBA)	138	110	27-183	22	0-60	
Diisopropyl Ether (DIPE)	115	111	78-126	3	0-16	
Ethyl-t-Butyl Ether (ETBE)	116	108	67-133	7	0-21	
Tert-Amyl-Methyl Ether (TAME)	115	104	63-141	10	0-21	
Ethanol	134	106	11-167	23	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-861	Aqueous	GC 1	09/01/07	09/02/07	070901B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	93	91	78-120	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-09-0010
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-379	Aqueous	GC/MS L	09/04/07	09/04/07	070904L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	106	87-117	3	0-7	
Carbon Tetrachloride	113	110	78-132	3	0-8	
Chlorobenzene	106	106	88-118	0	0-8	
1,2-Dibromoethane	114	115	80-120	1	0-20	
1,2-Dichlorobenzene	106	105	88-118	1	0-8	
1,1-Dichloroethene	106	107	71-131	1	0-14	
Ethylbenzene	110	111	80-120	1	0-20	
Toluene	112	112	85-127	0	0-7	
Trichloroethene	107	106	85-121	1	0-11	
Vinyl Chloride	93	90	64-136	3	0-10	
Methyl-t-Butyl Ether (MTBE)	120	116	67-133	3	0-16	
Tert-Butyl Alcohol (TBA)	120	119	34-154	1	0-19	
Diisopropyl Ether (DIPE)	115	112	80-122	3	0-8	
Ethyl-t-Butyl Ether (ETBE)	119	111	73-127	7	0-11	
Tert-Amyl-Methyl Ether (TAME)	118	113	69-135	4	0-12	
Ethanol	99	112	34-124	12	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-09-0010

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: 8-31-07

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: **norcallabs@eri-us.com**

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE) Rebekah Westrup

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 09-00110

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	~~TPHd by 8015B~~	TPHg by 8015B	~~Methanol by 8015B~~	BTEX by 8021B 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	~~Ethanol by 8260B~~	Total Lead by 6010B
1	W-19-DP6		8-31-07	7:30	H_2O	3 VOAs		X		X	X	X		
2	W-13-DP1		8-31-07	8:45	H_2O	6 VOAs		X		X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/31/07	Time: 11:25
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/1/07	Time: 1030
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 09 - 0010

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI DATE: 09/01/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4.8 °C IR thermometer.
_____ Ambient temperature.

Initial: HT

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: HT

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: HT

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

August 30, 2007

Paula Sime
Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Subject: **Calscience Work Order No.: 07-08-1993**
Client Reference: ExxonMobil 7-0238 / 229303X

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/29/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
W-15-DP2	**07-08-1993-1**	**08/27/07**	**Aqueous**	**GC 11**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	69	38-134			

W-10-DP3	**07-08-1993-2**	**08/28/07**	**Aqueous**	**GC 11**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	68	38-134			

W-15-DP3	**07-08-1993-3**	**08/28/07**	**Aqueous**	**GC 11**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	160	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	71	38-134			

Method Blank	**099-12-436-853**	**N/A**	**Aqueous**	**GC 11**	**08/29/07**	**08/29/07**	**070829B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	58	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
W-15-DP2	**07-08-1993-1**	**08/27/07**	**Aqueous**	**GC/MS L**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	7.0	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	126	73-157			Dibromofluoromethane	114	82-142		
Toluene-d8	106	82-112			1,4-Bromofluorobenzene	100	75-105		

W-10-DP3	07-08-1993-2	08/28/07	Aqueous	GC/MS L	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	16	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	130	73-157			Dibromofluoromethane	118	82-142		
Toluene-d8	105	82-112			1,4-Bromofluorobenzene	99	75-105		

W-15-DP3	07-08-1993-3	08/28/07	Aqueous	GC/MS L	08/29/07	08/29/07	070829L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	270	10	20	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	67	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	133	73-157			Dibromofluoromethane	113	82-142		
Toluene-d8	103	82-112			1,4-Bromofluorobenzene	100	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 7-0238 / 229303X

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-025-376**	**N/A**	**Aqueous**	**GC/MS L**	**08/29/07**	**08/29/07**	**070829L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
Toluene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
p/m-Xylene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,2-Dichloroethane-d4	111	73-157			Dibromofluoromethane	108	82-142		
Toluene-d8	103	82-112			1,4-Bromofluorobenzene	99	75-105		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1990-1	**Aqueous**	**GC 11**	**08/29/07**	**08/29/07**	**070829S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	118	118	68-122	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 08/29/07
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-08-1991-6	**Aqueous**	**GC/MS L**	**08/29/07**	**08/29/07**	**070829S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	111	86-122	1	0-8	
Carbon Tetrachloride	121	126	78-138	4	0-9	
Chlorobenzene	113	113	90-120	0	0-9	
1,2-Dibromoethane	119	112	70-130	7	0-30	
1,2-Dichlorobenzene	110	111	89-119	1	0-10	
1,1-Dichloroethene	115	118	52-142	3	0-23	
Ethylbenzene	117	121	70-130	3	0-30	
Toluene	115	117	85-127	2	0-12	
Trichloroethene	111	111	78-126	0	0-10	
Vinyl Chloride	102	108	56-140	6	0-21	
Methyl-t-Butyl Ether (MTBE)	122	108	64-136	12	0-28	
Tert-Butyl Alcohol (TBA)	131	115	27-183	13	0-60	
Diisopropyl Ether (DIPE)	121	116	78-126	4	0-16	
Ethyl-t-Butyl Ether (ETBE)	120	110	67-133	8	0-21	
Tert-Amyl-Methyl Ether (TAME)	120	108	63-141	11	0-21	
Ethanol	129	96	11-167	29	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-853	Aqueous	GC 11	08/29/07	08/29/07	070829B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	109	111	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 07-08-1993
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 7-0238 / 229303X

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-376	Aqueous	GC/MS L	08/29/07	08/29/07	070829L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	109	87-117	0	0-7	
Carbon Tetrachloride	111	112	78-132	1	0-8	
Chlorobenzene	110	109	88-118	1	0-8	
1,2-Dibromoethane	117	116	80-120	2	0-20	
1,2-Dichlorobenzene	112	110	88-118	2	0-8	
1,1-Dichloroethene	102	102	71-131	0	0-14	
Ethylbenzene	113	113	80-120	1	0-20	
Toluene	115	114	85-127	1	0-7	
Trichloroethene	109	109	85-121	1	0-11	
Vinyl Chloride	97	96	64-136	1	0-10	
Methyl-t-Butyl Ether (MTBE)	120	119	67-133	1	0-16	
Tert-Butyl Alcohol (TBA)	117	130	34-154	11	0-19	
Diisopropyl Ether (DIPE)	116	112	80-122	4	0-8	
Ethyl-t-Butyl Ether (ETBE)	120	114	73-127	5	0-11	
Tert-Amyl-Methyl Ether (TAME)	122	119	69-135	3	0-12	
Ethanol	122	123	34-124	1	0-44	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-08-1993

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Cecile de Guia

From: Paula M. Sime [psime@ERI-US.com]
Sent: Thursday, August 30, 2007 3:58 PM
To: Cecile de Guia
Subject: RE: ExxonMobil 7-0238 / 229303X / CEL 07-08-1993 (Preliminary)

Hi Cecile,
All the water samples on the COC should be analyzed for TPHg, BTEX, and oxygenates and lead scavengers. The field geologist forgot to carry the 'X's down. Thanks, Paula

---

From: Cecile de Guia [mailto:CdeGuia@calscience.com]
Sent: Thursday, August 30, 2007 3:43 PM
To: Paula M. Sime
Subject: ExxonMobil 7-0238 / 229303X / CEL 07-08-1993 (Preliminary)

Samples collected on 08/27-28/07.

I will send the COC separate for this project for you to mark the analyses of the other two samples.

Please send back the revised COC right away so I can finalize the report.

Thank you and I apologize for not sending the COC yesterday as per our conversation.

Cecile

Cecile Rose L. de Guia
Project Manager
Calscience Environmental
Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Tel.: 714-895-5494 Ext. 141
Fax : 714-894-7501
cdeguia@calscience.com

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT:
Exxon Mobil Refining & Supply - Global Remediation

ADDRESS:
c/o Environmental Resolutions, Inc.
601 North McDowell Blvd.
Petaluma, California 94954

TEL: **(707) 766-2000** FAX: **(707) 789-0414** E-MAIL: **norcallabs@eri-us.com**

CLIENT PROJECT NAME / NUMBER: **229303X / 7-0238**

PROJECT CONTACT: **Paula Sime/ERI**

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 8 - 1 9 9 3

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
Send EDF report / Global ID: T0600101343

SPECIAL INSTRUCTIONS
Use Silica Gel Cleanup for all TPHd analyses.
Set TBA reporting limit at or below 12 ug/L.
Oxygenates: MTBE, ETBE, TAME, DIPE, TBA
Lead Scavengers: 1,2-DCA, EDB

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (separate from sample ID on EDF)	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	~~TPHd by 8015B~~	TPHg by 8015B	~~Methanol by 8015B~~	BTEX by ~~8021B~~ 8260B	Oxygenates by 8260B	Lead Scavengers by 8260B	Ethanol by 8260B	Total Lead by 6010B
1	W-15-DP2		8/27/07	13:45	H_2O	7 VOAs		X		X	X	X		
2	W-10-DP3		8/28/07	10:20	H_2O	7 VOAs								
3	W-15-DP3		8/28/07	11:05	H_2O	~~5~~ VOAs								

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		8/28/07	1434
Relinquished by: (Signature) to GSO	Received by: (Signature)	8/29/07	0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 08 - 1993

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: ERI DATE: 8/29/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.9 °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS:

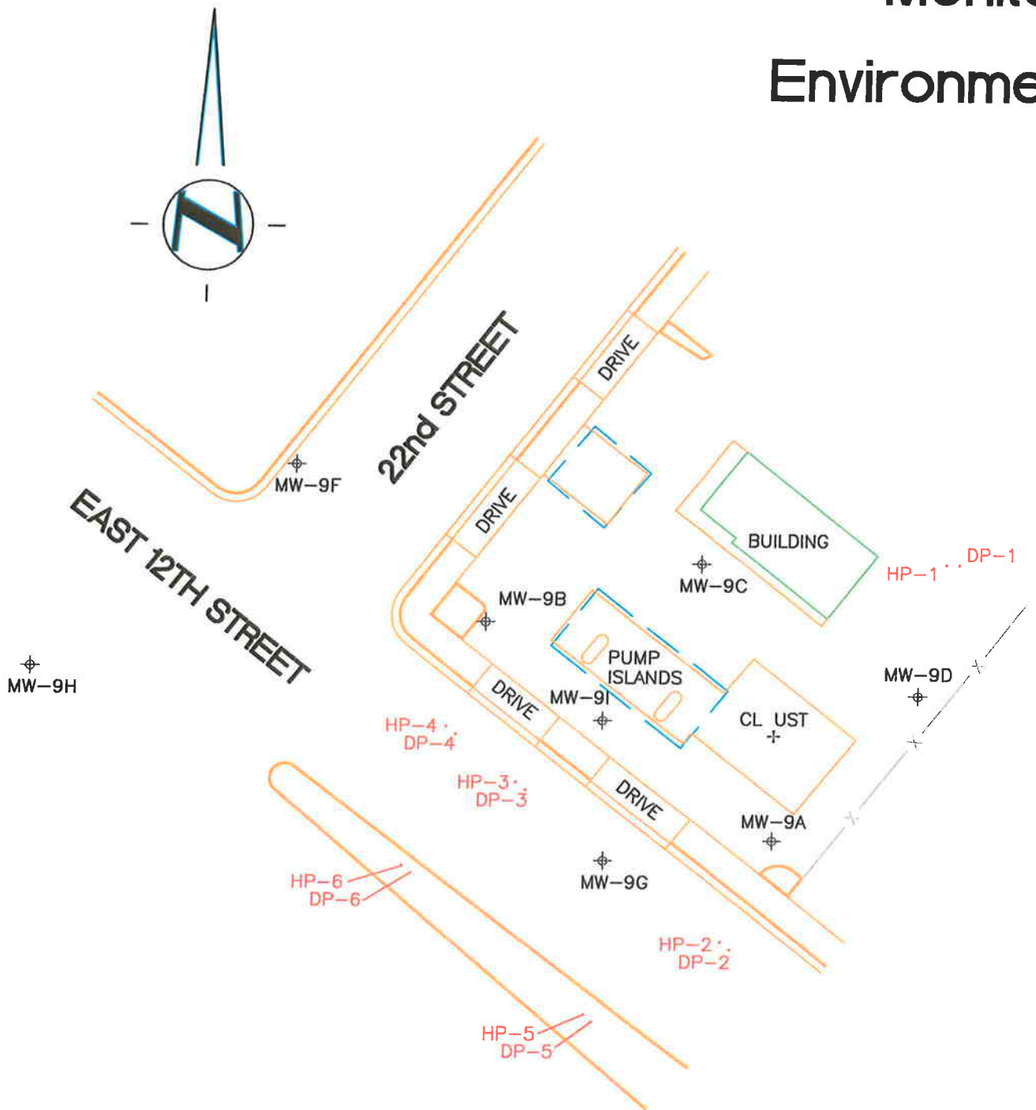
ATTACHMENT F

MORROW SURVEY MAP

Monitoring Well Exhibit

Prepared For:

Environmental Resolutioins, Inc.



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV (PVC)	ELEV (BOX)
MW-9A	2112454.3	6059417.3	37.7836053	-122.2380594	14.51	14.71
MW-9B	2112525.6	6059324.0	37.7837963	-122.2383871	12.84	13.20
MW-9C	2112545.2	6059392.9	37.7838536	-122.2381499	14.16	14.59
MW-9D	2112502.3	6059464.1	37.7837393	-122.2379006	15.97	16.29
MW-9F	2112576.8	6059261.7	37.7839336	-122.2386057	11.38	11.86
MW-9G	2112447.4	6059363.2	37.7835835	-122.2382462	12.98	13.30
MW-9H	2112509.7	6059176.9	37.7837451	-122.2388947	11.59	11.99
MW-9I	2112493.4	6059362.2	37.7837099	-122.2382527	13.13	13.43
DP-1	2112545.4	6059472.5	37.7838581	-122.2378743		16.3(GND)
DP-2	2112418.4	6059404.3	37.7835059	-122.2381022		13.8(GND)
DP-3	2112470.5	6059337.9	37.7836456	-122.2383351		12.9(GND)
DP-4	2112488.6	6059315.0	37.7836941	-122.2384156		12.7(GND)
DP-5	2112394.3	6059360.5	37.7834374	-122.2382521		15.6(GND)
DP-6	2112442.8	6059301.4	37.7835677	-122.2384599		14.8(GND)
HP-1	2112545.4	6059476.7	37.7838583	-122.2378598		16.3(GND)
HP-2	2112420.9	6059401.2	37.7835126	-122.2381130		13.7(GND)
HP-3	2112473.0	6059334.8	37.7836524	-122.2383462		12.9(GND)
HP-4	2112491.1	6059312.0	37.7837009	-122.2384263		12.6(GND)
HP-5	2112396.7	6059358.1	37.7834441	-122.2382605		15.6(GND)
HP-6	2112445.1	6059298.5	37.7835739	-122.2384700		14.7(GND)

BASIS OF COORDINATES:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.
COORDINATE DATUM IS NAD 83(1986)
DATUM ELLIPSOID IS GRS80
REFERENCE GEOID IS NGS99
CORS STATIONS USED WERE PBL1 AND BRIB.
ELEVATIONS ARE BASED ON CITY OF OAKLAND BENCHMARK. SQUARE ON TOP OF CURB WESTERLY END OF RETURN EAST 14TH AND 22ND AVENUE.
ELEVATION= 14.64'.

0 25 50 100 150
SCALE IN FEET

Former Exxon 7-0238
2200 East 12th Street
Oakland
Alameda County
California

Morrow Surveying
LAND SURVEYORS
1450 Harbor Blvd. Ste. D
West Sacramento
California 95691
(916) 372-8124
curt@morrowsurveying.com

Date: Nov., 2001
Scale: 1"= 50'
Sheet 1 of 1
Revised: 9-7-07
Field Book: MW-9,36
Dwg. No. 1873-015 ct