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RECEIVED

10:41 am, Mar 31, 2011

Alameda County
Environmental Health

ExxonMobil

March 28, 2011

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Former Mobil Station 04FGN, 14994 East 14th Street, San Leandro, California

Dear Ms. Jakub:

Attached for your review and comment is a copy of the *Soil Vapor Survey Report* for the above-referenced site. The document, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the soil vapor well installation and sampling events in November 2010.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

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

Sincerely,

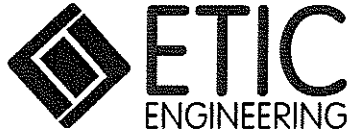


Jennifer C. Sedlachek
Project Manager

Attachment: ETIC Soil Vapor Survey Report

c: w/ attachment:
Ms. Jana Gluckman – property owner

c: w/o attachment:
Ms. Christa Marting – ETIC Engineering, Inc.



Soil Vapor Survey Report

**Former Mobil Station 04FGN
14994 East 14th Street
San Leandro, California**

Prepared for

ExxonMobil Oil Corporation

Prepared by

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

Yuko Mamiya
Project Geologist

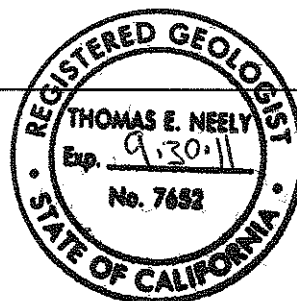
3/28/11

Date

Thomas E. Neely, PG, CHG, REA II
Senior Hydrogeologist

3/28/11

Date



March 2011

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SITE CONTACTS

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San Leandro, California

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1. INTRODUCTION

At the request of ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation (ExxonMobil), ETIC Engineering, Inc. (ETIC) has prepared this Soil Vapor Survey Report for former Mobil Station 04FGN, located at 14994 East 14th Street, San Leandro, California (Figure 1).

The investigation was conducted in general accordance with the Risk Assessment Work Plan and Preferential Pathway Survey dated October 2008. Work Plan Addendum dated 19 June 2009 was submitted in response to a letter from the Alameda County Health Care Services Agency (ACHCSA) dated 20 April 2009. The work plan outlined the proposed scope of work for the collection of soil and soil vapor samples to evaluate the potential risk via vapor intrusion from potential exposure to hydrocarbons beneath the site (ETIC 2008 and 2009b). In a letter dated 20 July 2010, ETIC notified the ACHCSA that the proposed work would be implemented. The regulatory correspondence is attached as Appendix A.

This report documents the installation of five soil vapor monitoring wells and presents the results of the soil vapor sampling and vapor intrusion evaluation.

Scope of Work

The work consisted of the following activities:

- On 23 and 24 November 2010, a total of five borings were advanced to a total depth of 6 feet below ground surface (bgs) using an air knife and a hand auger.
- Soil samples were collected from each location. Soil samples collected from 5 to 5.5 feet bgs and from 5.5 to 6 feet bgs were submitted for laboratory analysis.
- The borings were completed as soil vapor monitoring wells VW1 through VW5 for the collection of soil vapor samples.
- On 26 November 2010, soil vapor samples were collected from the vapor wells VW1 through VW5 in 1-liter SUMMA canisters and submitted for laboratory analysis.
- On 15 December 2010, the wells were surveyed by a licensed land surveying company.

2. SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Former Mobil Station 04FGN is located at the northern corner of the intersection of East 14th Street and 150th Avenue in San Leandro, California (Figure 2). Three gasoline underground storage tanks (USTs), one used-oil UST, and the associated fuel dispensers and piping were removed in 1987. The sizes of the former USTs are unknown. The site is currently in use as a retail shopping center. Land use in the immediate vicinity of the site is predominantly commercial, with gasoline and auto service stations, restaurants, and offices.

2.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located in the East Bay Plain Subbasin of the Santa Clara Valley Groundwater Basin. The East Bay Plain Subbasin is a northwest trending alluvial plain bounded on the north by San Pablo Bay, on the east by the contact with Franciscan Basement rock, and on the south by the Niles Cone Groundwater Basin. The East Bay Plain Basin extends beneath San Francisco Bay to the west. Numerous creeks including San Pablo Creek, Wildcat Creek, San Leandro Creek, and San Lorenzo Creek flow from the western slope of the Coast Ranges westward across the plain and into the San Francisco Bay. The East Bay Plain Subbasin aquifer system consists of unconsolidated deposits of Quaternary age. Deposits include the early Pleistocene Santa Clara Formation, the late Pleistocene Alameda Formation, the early Holocene Temescal Formation, and Artificial Fill. The cumulative thickness of the unconsolidated deposits is about 1,000 feet (Department of Water Resources (DWR) 2003).

Early Pleistocene Santa Clara Formation

The Santa Clara Formation consists of alluvial fan deposits inter-fingered with lake, swamp, river channel, and flood plain deposits. The formation ranges from 300 to 600 feet thick (DWR 2003).

Late Pleistocene Alameda Formation

The Alameda Formation includes a sequence of alluvial fan deposits. The formation was deposited primarily in an estuarine environment and ranges from 26 to 245 feet thick (DWR 2003).

Early Holocene Temescal Formation

The Temescal Formation is an alluvial deposit consisting primarily of silt and clay with some gravel layers. The formation ranges from 1 to 50 feet thick (DWR 2003).

Artificial Fill

Artificial fill is found mostly along the bay front and wetlands areas and is derived primarily from

dredging as well as quarrying, construction, demolition debris, and municipal waste. The fill ranges in thickness from 1 to 50 feet with the thickest deposits found closer to San Francisco Bay (DWR 2003).

2.3 SITE GEOLOGY AND HYDROGEOLOGY

The subsurface lithology beneath the site was evaluated using soil boring logs from previous investigations performed by Alisto Engineering Group. Soil encountered generally consisted of silt and clay with occasional sand or gravel included. Historically, groundwater has been found beneath the site at depths between approximately 4 and 14 feet bgs.

The groundwater flow direction in December 2008 was reported to be to the southwest (ETIC 2009a).

2.4 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL MEASURES

According to the closure request (Alton 1998), in 1984 Mobil discontinued fuel dispensing operations at the site. In 1987, three unleaded gasoline tanks of unknown size, one used-oil UST of unknown size, and the associated fuel dispensers and piping were removed from the site. During removal activities an unknown quantity of soil was excavated from the tank cavity. These activities were conducted by the property owner.

In September 1987, the Alameda County Environmental Health Department (ACEHD) collected and analyzed soil samples from a Pacific Gas and Electric Company (PG&E) excavation beneath the sidewalk near the eastern corner of the site. The ACEHD reported that soil cuttings from the PG&E excavation contained oil and grease at a concentration of 45,000 milligrams per kilogram (mg/kg) (Subsurface 1987). On 29 September 1987, Subsurface Consultants, Inc. (Subsurface) advanced soil borings SCB-1 through SCB-6 near the PG&E excavation. The soil borings ranged in total depth from 9.5 to 13.5 feet bgs. Total Petroleum Hydrocarbons as gasoline (TPH-g) were detected at concentrations of 72 mg/kg (SCB-1, 4.0 feet bgs) and 320 mg/kg (SCB-3, 8.5 feet bgs). Total Petroleum Hydrocarbons as diesel (TPH-d) were detected at a concentration of 200 mg/kg (SCB-1, 4.0 feet bgs). Benzene was detected at a concentration of 6.6 mg/kg (SCB-6, 5.0 feet bgs) (Alton 1998).

In March 1988, Subsurface excavated soil around the former PG&E excavation. Soil analytical results are summarized in Appendix B (Alton 1998).

In March 1988, Subsurface installed groundwater monitoring well MW1A. No soil analytical results from boring MW1A were reported (Alton 1998).

Soil borings B-1 through B-4 were advanced in February 1994 to depths ranging from 11.5 to 25 feet bgs. Borings B-2 and B-3 were converted into groundwater monitoring wells MW2A and MW3A (Alton 1998).

In June 1995, soil borings B-5 through B-9 and MW4A through MW6A were advanced to depths

ranging from 15.5 to 26.5 feet bgs. Borings MW4A through MW6A were completed as groundwater monitoring wells. Soil boring MW7A was advanced in July 1995 and completed as a groundwater monitoring well (Alton 1998).

In March 2000, MW4A through MW7A were decommissioned by pressure grouting method (TRC 2000).

Case closure requests for the site were submitted in November 1998 (Alton) and December 2006 (ETIC 2006).

Groundwater monitoring was conducted at the site from March 1988 to July 2004 and again in December 2008. Well construction details are presented in Table 1. Soil analytical results are summarized by Alton in their closure report (Alton 1998) and included in Appendix B. Historical gauging data and laboratory analytical results for the monitoring wells are summarized in Tables 2 and 3. Figure 3 shows the results from the December 2008 groundwater monitoring event (ETIC 2009a).

3. SUBSURFACE INVESTIGATION

On 23 and 24 November 2010, ETIC observed the installation of five soil vapor monitoring wells (VW1 through VW5). A permit was obtained from the Alameda County Public Works Agency (ACPWA). A copy of the permit is attached as Appendix C. A site-specific health and safety plan was used for this work. The locations of the soil vapor monitoring wells are shown on Figure 2.

The locations of the proposed soil vapor monitoring wells were selected based on the historical hydrocarbon concentrations beneath the site, groundwater flow direction, and locations of onsite structures.

An advisory published by the Department of Toxic Substances Control (DTSC) and the Los Angeles Regional Water Quality Control Board (DTSC/LARWQCB 2003) and vapor intrusion evaluation guidelines published by the DTSC (DTSC 2004) and Interstate Technology & Regulatory Council (ITRC 2007) were used as guidelines for the work detailed below.

3.1 ADVANCEMENT OF SOIL BORINGS AND SOIL SAMPLING

On 23 and 24 November 2010, soil borings VW1 through VW5 were advanced by Cascade Drilling, LP. of Rancho Cordova, California (C57 license #938110) with an air knife and a hand auger to depth of approximately 6 feet bgs.

Soil samples were collected in clean liners using a slide hammer hand sampler at depths of 5 to 5.5 feet bgs and 5.5 to 6 feet bgs. Soil was examined and characteristics were recorded on the soil boring logs presented in Appendix D. The soil sample liners were sealed with Teflon tape, capped, labeled, placed in a cooler with ice, and submitted under chain-of-custody protocol to a state-certified laboratory for analysis. Reusable sampling equipment was decontaminated after each use. Field methods and procedures are described in the protocols, presented in Appendix E.

3.2 SOIL VAPOR MONITORING WELL INSTALLATION

Borings VW1 through VW5 were completed as soil vapor monitoring wells. The wells were completed in accordance with the protocols provided in Appendix E. An ACPWA inspector approved the installation of each well.

The soil vapor monitoring wells were constructed with 0.25-inch-diameter stainless steel tubing connected to a 0.4-inch-diameter, 6-inch-long, stainless steel 0.0057-inch pore screen. All connections were sealed with Swagelok®-type fittings. The screen was capped at the bottom, connected to the tubing with a Swagelok®-type fitting, and placed from approximately 5.25 to 5.75 feet bgs in the borehole. A filter pack consisting of #2/12 Sand was placed between 5 and 6 feet bgs. The top of the stainless steel tubing was sealed with a Swagelok®-type valve. A 1-foot layer (from approximately 4 to 5 feet bgs) of dry granular bentonite was placed in the annular space of the borehole to separate the filter pack from the overlying grout seal. Hydrated granular bentonite was

used to fill the annular space of the borehole to just below ground surface. The well construction details are provided in Table 1 and are shown on the boring logs in Appendix D.

3.3 SOIL VAPOR SAMPLE COLLECTION

On 26 November 2010, a purge test was conducted for well VW3 which involved purging the well of 1, 3, and 7 purge volumes and screening the samples with a photoionization detector to determine the relative hydrocarbon content. Based on the results of this purge test, a purge volume of 3 purge volumes was determined to be the preferred amount for the remaining samples to be collected at the site.

On 26 November 2010, soil vapor samples were collected after purging 3 volumes from each well using SUMMA canisters. The initial pressure and the final pressure readings taken from the gauges on the SUMMA canisters were recorded. During sampling, helium was used to check for potential leaks. The samples were submitted under chain-of-custody protocol to a state-certified laboratory for analysis. Field protocols are provided in Appendix E. The field documents are included in Appendix F.

3.4 WELL SURVEYING

On 15 December 2010, the location and top of traffic box elevation of each soil vapor monitoring well was surveyed by Morrow Surveying, a licensed land surveyor. The surveyor's report is provided in Appendix G.

3.5 WASTE CONTAINMENT AND DISPOSAL

Waste generated during soil vapor monitoring well installation activities was collected in 55-gallon drums and stored onsite. A soil sample was collected from each drum and submitted to Calscience Environmental Laboratories, Inc. (Calscience), a state-certified laboratory in Garden Grove, California. The samples were analyzed for TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total lead in order to characterize the soil for proper disposal. The laboratory analytical reports and chain-of-custody documentation are included in Appendix H. The drums were removed from the site on 15 December 2010 by Dillard Environmental Services and transported for disposal to Republic Landfill in Livermore, California. Waste documentation is included in Appendix I.

4. RESULTS

4.1 LOCAL GEOLOGY AND HYDROGEOLOGY

Soil encountered in boring VW1 generally consisted of silty clay with trace sand to approximately 1.5 feet bgs, gravelly sand with silt to approximately 2 feet bgs. Silty clay with gravel to approximately 5 feet bgs, and clayey silt with sand to 6 feet bgs, the total depth explored during this investigation. Soil encountered during this investigation in VW2 through VW5 generally consisted of clay with silt to approximately 3 feet bgs. The clay with silt was underlain by clayey silt with sand to 6 feet bgs, the total depth explored during this investigation. Groundwater was not encountered during this investigation. Detailed soil descriptions are presented in the boring logs in Appendix D.

4.2 SOIL SAMPLE ANALYTICAL METHODS AND RESULTS

Soil samples collected at depths from 5.5 to 6 feet bgs from borings VW1 through VW5 were submitted to Calscience and analyzed for TPH-d and TPH-g by EPA Method 8015B (M); BTEX by EPA Method 8021B, and methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), 1,2-DCA, diisopropyl ether (DIPE), 1,2-dibromoethane (1,2-DBA), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME) by EPA Method 8260B.

Additionally, the soil samples collected from borings VW2 and VW4 were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and cadmium, chromium, lead, nickel, and zinc by EPA Method 6010B. The analytical results are summarized in Tables 4 and 5 and Figure 4. The laboratory analytical reports and chain-of-custody documentation are included in Appendix H.

- TPH-d, TPH-g, BTEX, MTBE, DIPE, ETBE, TAME, TBA, 1,2-DBA, and 1,2-DCA were not detected in the soil samples at or above laboratory reporting limits.
- Acetone (0.015 mg/kg), 2-butanone (0.0036 mg/kg), n-butylbenzene (0.00047 mg/kg), sec-butylbenzene (0.00047 mg/kg), and 1,2,4-trimethylbenzene (0.0011 mg/kg) were five VOCs detected in the soil sample collected from VW2.
- 1,2,4-trimethylbenzene (0.00030 mg/kg) was detected in the soil sample collected from VW4.
- Chromium was detected at concentrations up to 26.7 mg/kg (VW4).
- Lead was detected at concentrations up to 6.88 mg/kg (VW2).
- Nickel was detected at concentrations up to 38.8 mg/kg (VW2).
- Zinc was detected at concentrations up to 31.9 mg/kg (VW2).

Soil samples collected at depths from 5 to 5.5 feet bgs from borings VW1 through VW5 were also

submitted to CalScience and analyzed for moisture content by ASTM D2216 and porosity and bulk density by API RP40. The analytical results are summarized in Table 6.

The moisture content of the soil samples ranged from 15.1 to 20.1 percent by weight. The bulk density ranged from 1.69 to 1.88 grams per cubic centimeter. The total porosity of the samples ranged from 29.1 to 36.1 percent by volume, and the air-filled porosity ranged from 0.8 to 4.3 percent by volume. The laboratory analytical reports and chain-of-custody documentation are included in Appendix H.

4.3 SOIL VAPOR SAMPLE ANALYTICAL METHODS AND RESULTS

Soil vapor samples collected from vapor wells VW1 through VW5 were submitted to CalScience for analysis. The samples were analyzed for TPH-g by EPA Method TO-3 (M) and BTEX, MTBE, TBA, 1,2-DCA, DIPE, 1,2-DBA, ETBE, and TAME by EPA Method TO-15. The samples were also analyzed for oxygen, methane, and carbon dioxide by ASTM D1946. Additionally, soil vapor samples collected from VW2 and VW4 were analyzed for VOCs by EPA Method TO-15. The analytical results for the soil vapor samples are presented in Table 7 and on Figure 5.

- Benzene was detected at concentrations up to 120 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (VW2).
- Toluene was detected at concentrations up to 41 $\mu\text{g}/\text{m}^3$ (VW2).
- Ethylbenzene was detected at concentrations up to 140 $\mu\text{g}/\text{m}^3$ (VW2).
- Total xylenes were detected at concentrations up to 330 $\mu\text{g}/\text{m}^3$ (VW2).
- TPH-g was detected at concentrations up to 1,500,000 $\mu\text{g}/\text{m}^3$ (VW3).
- TBA was detected at concentrations up to 58 $\mu\text{g}/\text{m}^3$ (VW2).
- Acetone (up to 120 $\mu\text{g}/\text{m}^3$), 2-butanone (40 $\mu\text{g}/\text{m}^3$), 4-ethyltoluene (25 $\mu\text{g}/\text{m}^3$), tetrachloroethene (up to 39 $\mu\text{g}/\text{m}^3$), 1,3,5-trimethylbenzene (240 $\mu\text{g}/\text{m}^3$), 1,2,4-trimethylbenzene (78 $\mu\text{g}/\text{m}^3$), and chloroform (7.4 $\mu\text{g}/\text{m}^3$) were the other VOCs detected in the samples from VW2 or VW4.
- Helium (the tracer gas) was not detected in the field-measured samples.

No other analytes were detected at or above laboratory reporting limits.

5. VAPOR INTRUSION EVALUATION

The potential health risks associated with vapor intrusion to indoor air were evaluated using soil vapor data obtained from the November 2010 subsurface investigation.

This analysis consisted of comparing the maximum shallow soil vapor concentrations detected at the site to applicable Environmental Screening Levels (ESLs) developed by the Regional Water Quality Control Board San Francisco Bay Region (RWQCB-SF) (RWQCB-SF 2008). The ESLs adopted by the RWQCB-SF correspond to a target carcinogenic risk level of 1×10^{-6} and a target non-carcinogenic hazard quotient of 0.2.

Table 8 lists the lowest applicable ESLs for potential vapor intrusion concerns corresponding to residential and commercial/industrial land use (Table E-2, RWQCB-SF 2008). Currently, the site is occupied by commercial businesses. Comparison of onsite soil vapor concentrations to residential ESLs is included in Table 8 for reference, but does not apply to the current use of the site. Comparison of onsite soil vapor concentrations to commercial/industrial ESLs is presented below.

Of the compounds detected:

- TPH-g concentrations exceeded the ESL for commercial/industrial land use in samples collected from wells VW2 and VW3.
- Benzene, toluene, ethylbenzene, xylenes, acetone, tetrachloroethene, and chloroform were not detected at concentrations exceeding the ESLs for commercial/industrial land use in the soil vapor samples collected.

6. SUMMARY

On 23 and 24 November 2010, ETIC observed the installation of five soil vapor monitoring wells (VW1 through VW5) at former Mobil Station 04FGN, located at 14994 East 14th Street, San Leandro, California. Soil samples were collected from borings VW1 through VW5 at depths of 5.5 to 6 feet bgs for chemical analysis. TPH-d, TPH-g, BTEX, five fuel oxygenates, and two fuel additives were not detected in the soil samples. Relatively low levels of acetone, 2-butanone, and volatile petroleum hydrocarbons were detected in the samples collected from borings VW2 and VW4. Soil samples were also collected from each boring for analysis of physical properties.

On 26 November 2010, soil vapor samples were collected from wells VW1 through VW5. TPH-g, BTEX, TBA, and some VOCs were detected in the soil vapor samples analyzed. A vapor intrusion evaluation which consisted of a comparison of the site maximum shallow soil vapor concentrations to relevant ESLs was performed. Concentrations of TPH-g and benzene in some soil vapor samples exceeded ESLs.

Recommendations based on the vapor intrusion evaluation will be submitted under separate cover.

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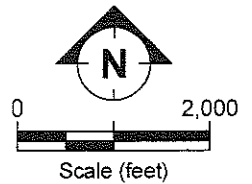
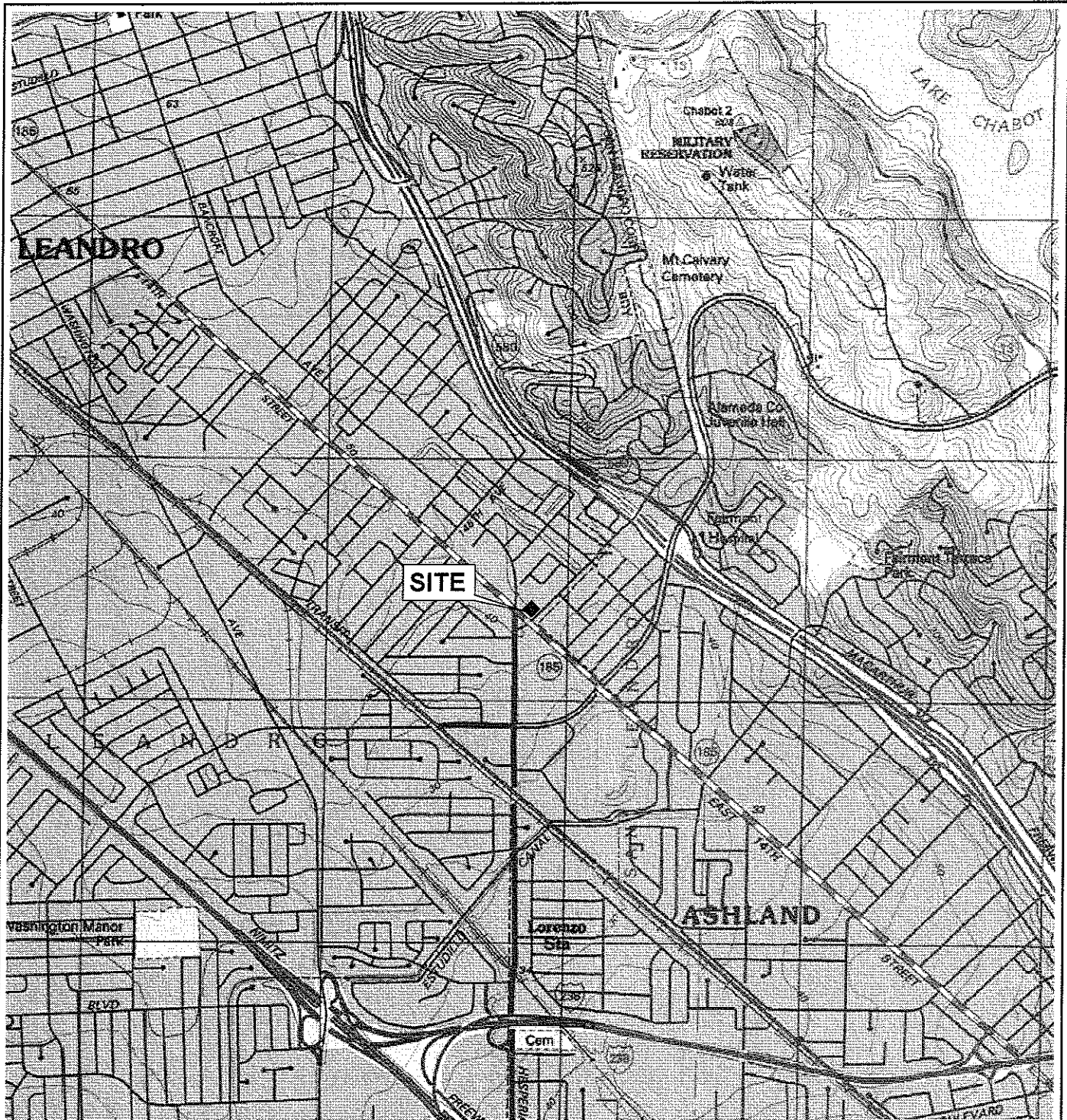
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Figures



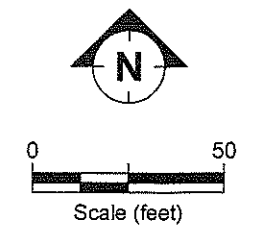
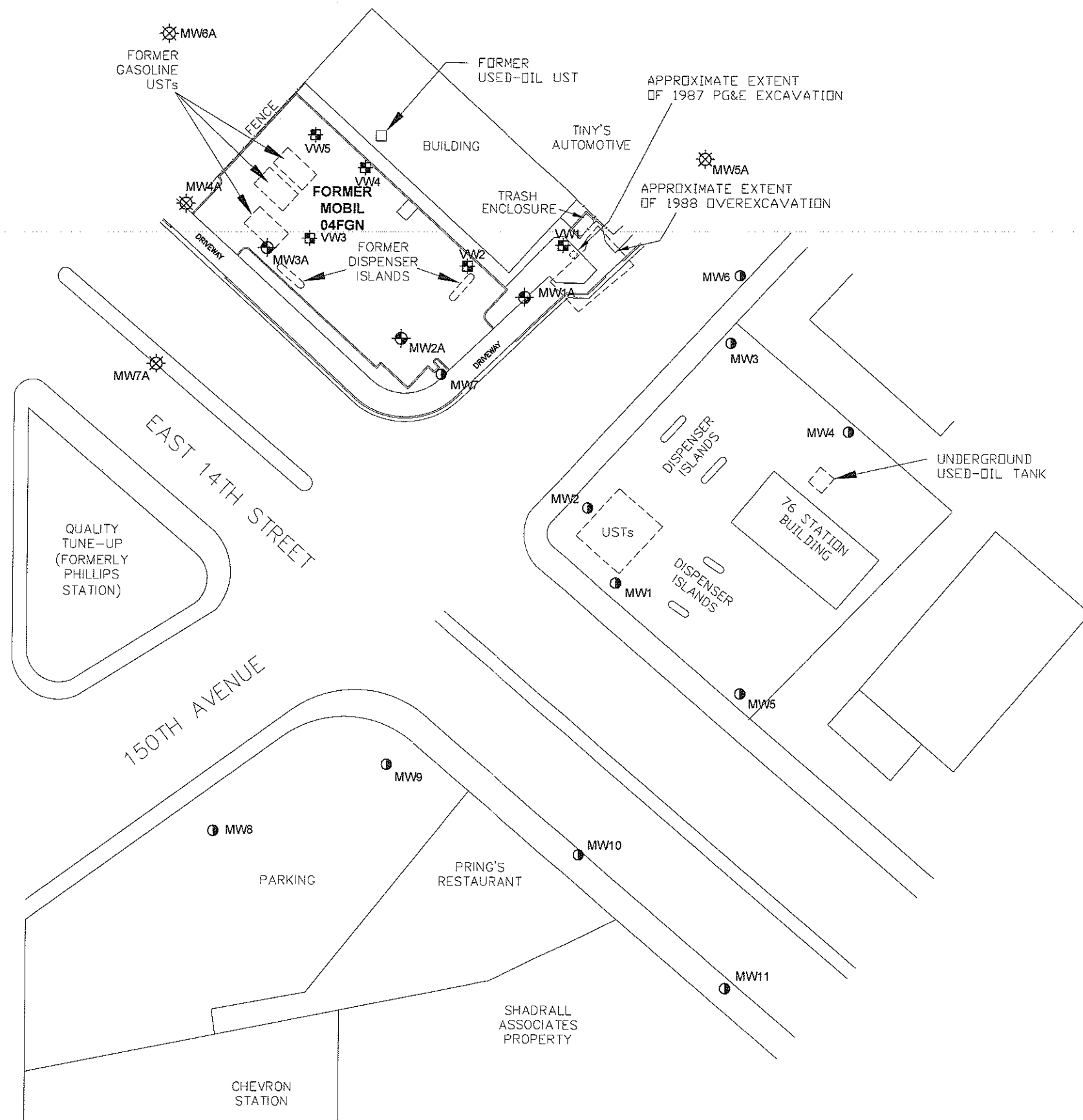
(Map Source: USGS Topographic Map)

SITE LOCATION AND TOPOGRAPHIC MAP
 FORMER MOBIL STATION 04FGN
 14994 EAST 14th STREET
 SAN LEANDRO, CALIFORNIA

FIGURE:

1

LEGEND	
	Mobil groundwater monitoring well
	Unocal groundwater monitoring well
	Soil vapor monitoring well
	Destroyed monitoring well



FILENAME: BASEMAP0507 3/15/11



SITE MAP
FORMER MOBIL STATION 04FGN
 14994 EAST 14TH STREET
 SAN LEANDRO, CALIFORNIA

FIGURE:
2

GW Approximate Groundwater Flow Direction
Gradient = 0.0065

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	0.58
Xylenes	<0.50
TPH-g	1,500
MTBE(8260)	<0.50

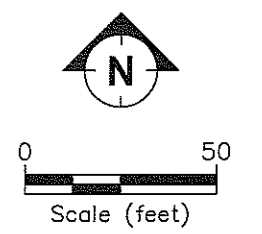
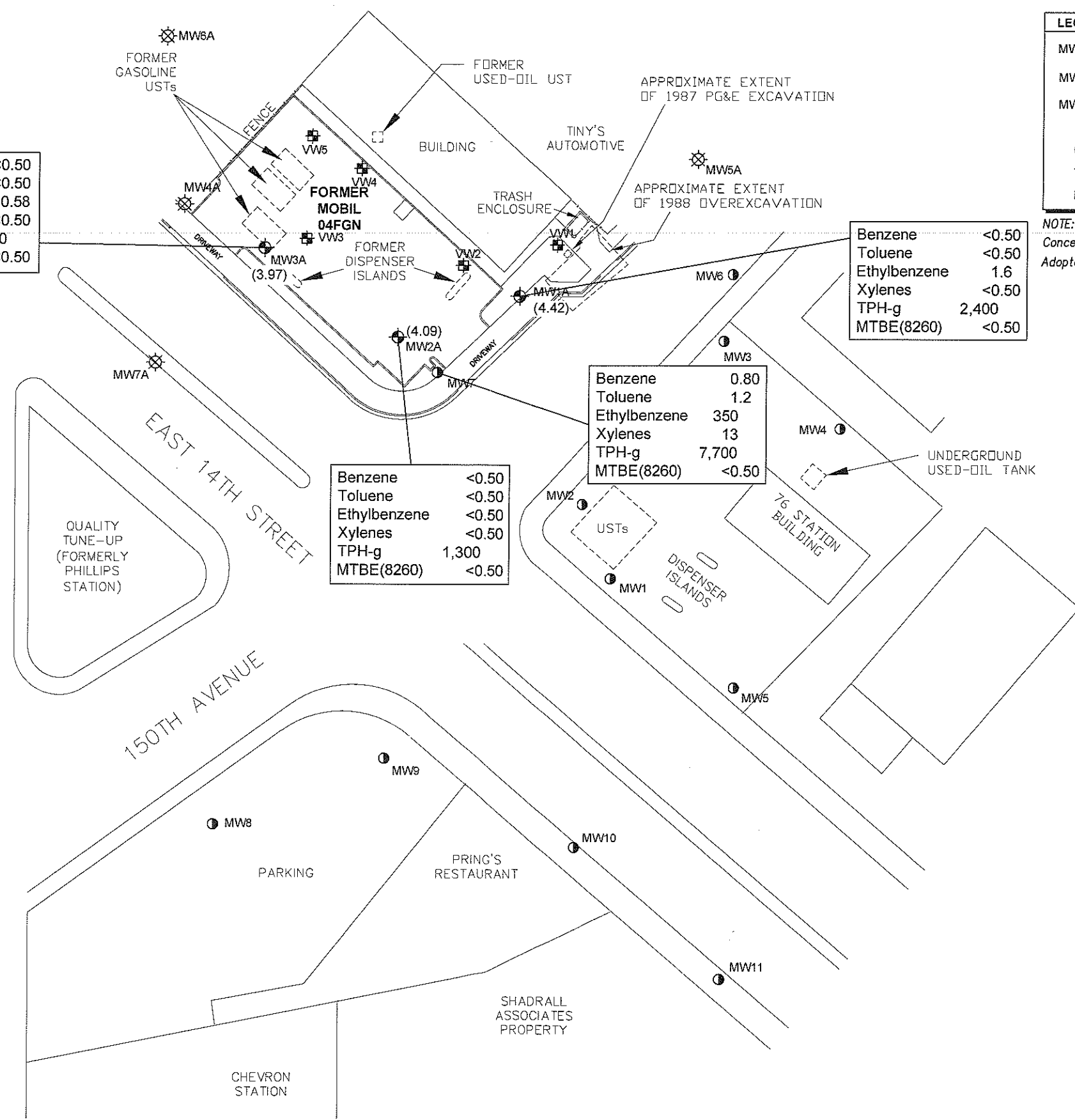
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	1.6
Xylenes	<0.50
TPH-g	2,400
MTBE(8260)	<0.50

Benzene	0.80
Toluene	1.2
Ethylbenzene	350
Xylenes	13
TPH-g	7,700
MTBE(8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	1,300
MTBE(8260)	<0.50

LEGEND	
MW2	Mobil groundwater monitoring well
MW1	Destroyed monitoring well location
MW1	Unocal groundwater monitoring well
+	Soil vapor monitoring well
(4.42)	Groundwater elevation (feet)
TPH-g	Total Petroleum Hydrocarbons as gasoline
MTBE	Methyl tertiary butyl ether

NOTE:
Concentrations in micrograms per liter (ug/L).
Adopted from Quarterly Groundwater Monitoring Report, 4th Quarter 2008.



SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
FORMER MOBIL STATION 04FGN
14994 EAST 14th STREET, SAN LEANDRO, CALIFORNIA
17 DECEMBER 2008

FILENAME: 4q2008.DWG 03/15/11

Depth	5.5-6
Benzene	<0.0050
Toluene	<0.0050
Ethylbenzene	<0.0050
Xylenes	<0.010
TPH-g	<0.50
TPH-d	<5.0
MTBE	<0.0050

Depth	5.5-6
Benzene	<0.0050
Toluene	<0.0050
Ethylbenzene	<0.0050
Xylenes	<0.010
TPH-g	<0.50
TPH-d	<5.0
MTBE	<0.0050

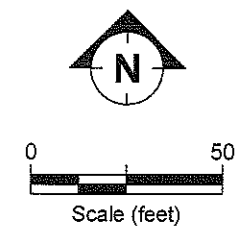
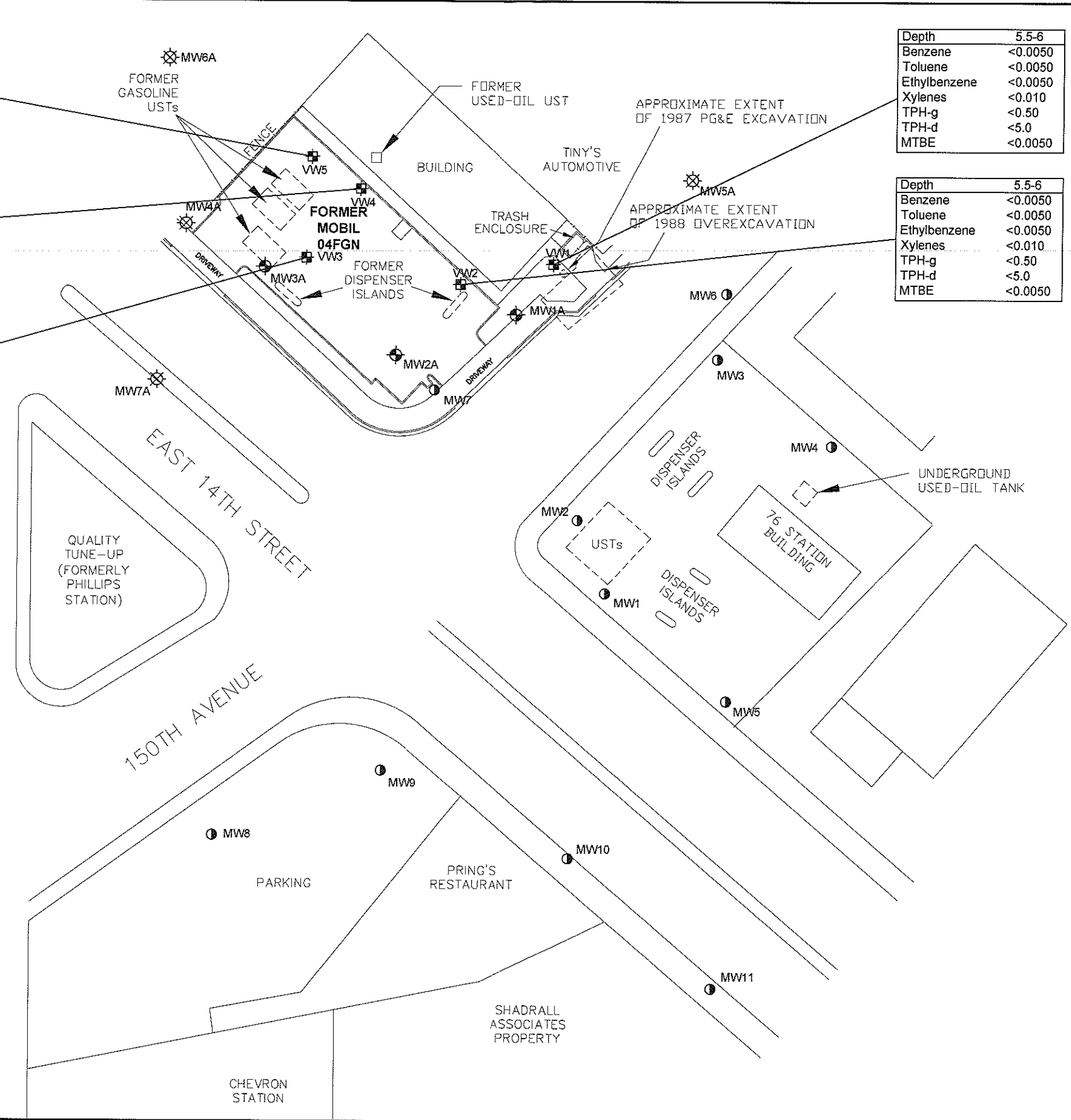
Depth	5.5-6
Benzene	<0.0050
Toluene	<0.0050
Ethylbenzene	<0.0050
Xylenes	<0.010
TPH-g	<0.50
TPH-d	<5.0
MTBE	<0.0050

Depth	5.5-6
Benzene	<0.0050
Toluene	<0.0050
Ethylbenzene	<0.0050
Xylenes	<0.010
TPH-g	<0.50
TPH-d	<5.0
MTBE	<0.0050

Depth	5.5-6
Benzene	<0.0050
Toluene	<0.0050
Ethylbenzene	<0.0050
Xylenes	<0.010
TPH-g	<0.50
TPH-d	<5.0
MTBE	<0.0050

LEGEND	
	Mobil groundwater monitoring well
	Unocal groundwater monitoring well
	Soil vapor monitoring well
	Destroyed monitoring well
TPH-g	Total Petroleum Hydrocarbons as gasoline
TPH-d	Total Petroleum Hydrocarbons as diesel
MTBE	Methyl tertiary butyl ether

- Notes:
1. Analytical results displayed in milligrams per kilogram (mg/kg).
 2. Depths displayed in feet below ground surface.
 3. Only TPH-g, TPH-d, BTEX, and MTBE results are presented on this figure.



SITE MAP SHOWING SOIL SAMPLE ANALYTICAL RESULTS
 FORMER MOBIL STATION 04FGN
 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA
 23 AND 24 NOVEMBER 2010

FIGURE:
4

FILENAME: S010111.DWG 3/15/11



Benzene	9.5
Toluene	5.4
Ethylbenzene	<3.0
Xylenes	<12
TPH-g	<9,200
MTBE	<9.9

Benzene	32
Toluene	11
Ethylbenzene	4.2
Xylenes	<13
TPH-g	15,000
MTBE	<11

		Duplicate
Benzene	<39	<36
Toluene	<46	<43
Ethylbenzene	<53	<49
Xylenes	230	220
TPH-g	1,400,000	1,500,000
MTBE	<170	<160

Benzene	18
Toluene	18
Ethylbenzene	5.7
Xylenes	18
TPH-g	<9,000
MTBE	<9.9

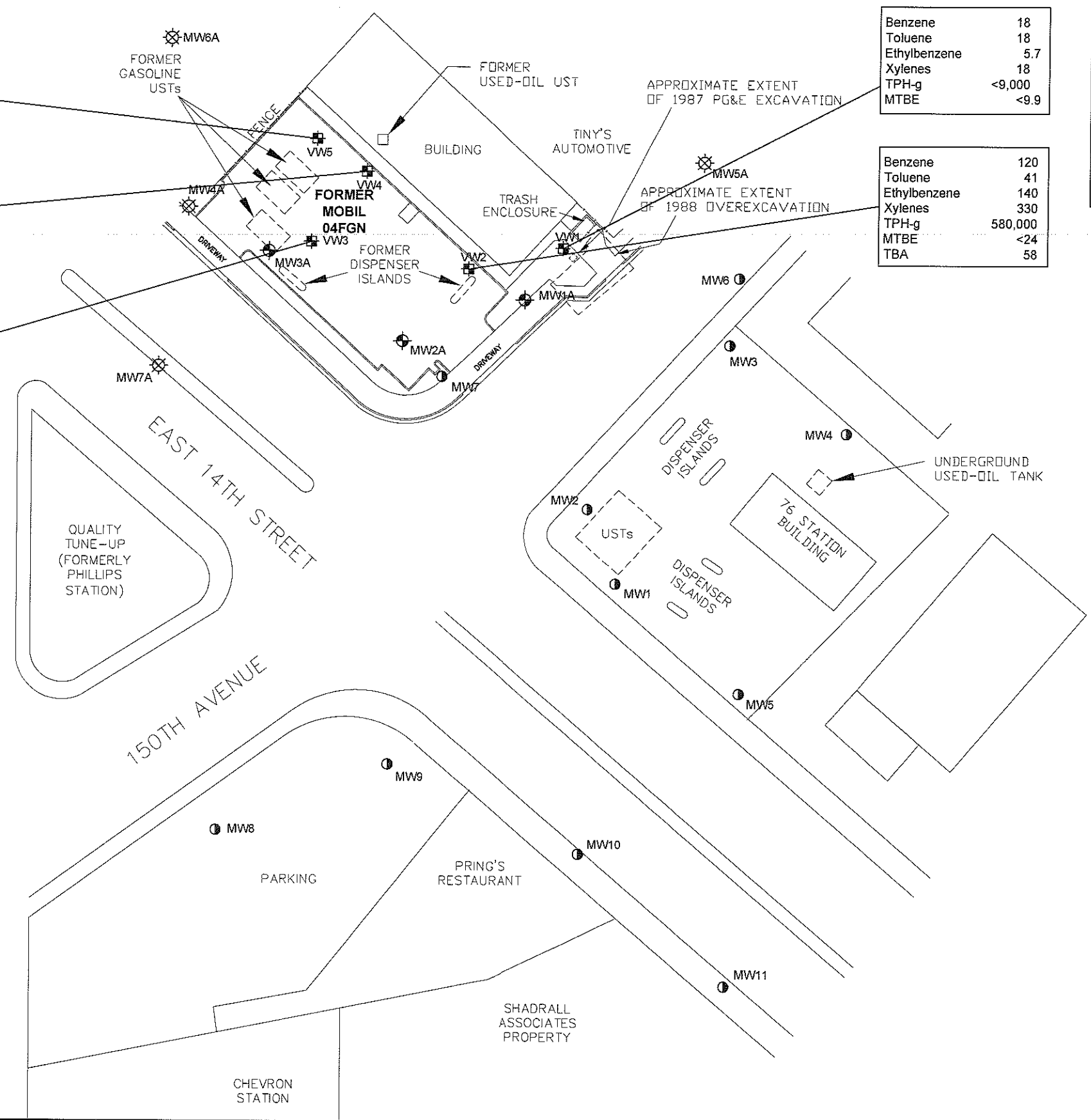
Benzene	120
Toluene	41
Ethylbenzene	140
Xylenes	330
TPH-g	580,000
MTBE	<24
TBA	58

LEGEND

- Mobil groundwater monitoring well
- Unocal groundwater monitoring well
- Soil vapor monitoring well
- Destroyed monitoring well
- Total Petroleum Hydrocarbons as gasoline
- Total Petroleum Hydrocarbons as diesel
- Methyl tertiary butyl ether
- Tertiary butyl alcohol

Notes:

1. Analytical results displayed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
2. TBA results shown for wells where it was detected.
3. Only TPH-g, BTEX, MTBE, and TBA (where detected) results are presented on this figure.



SITE MAP SHOWING SOIL VAPOR SAMPLE ANALYTICAL RESULTS
FORMER MOBIL STATION 04FGN
14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA
26 NOVEMBER 2010

FIGURE:
5

FILENAME: S01011.DWG 3/15/11



Tables

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1A	a 03/31/88	39.30	PVC	24	19	8	2	9 - 19	0.020	8 - 19 19 - 24 ^c	#3 Sand
MW2A	a 02/10/94	39.52	PVC	24	24	8	2	8.5 - 24	0.010	7 - 24	#2/12 Lonestar Sand
MW3A	a 02/10/94	39.82	PVC	23	23	8	2	8 - 23	0.010	6.5 - 23	#2/12 Lonestar Sand
MW4A	b 06/01/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW5A	b 06/01/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW6A	b 06/02/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW7A	b 07/28/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
VW1	a 11/24/10	--	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW2	a 11/23/10	--	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW3	a 11/24/10	--	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW4	a 11/23/10	--	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW5	a 11/24/10	--	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand

Notes:

- a Well surveyed on 15 December 2010.
- b Well destroyed.
- c Depth of bentonite seal at the base of the boring.

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
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PVC Polyvinyl chloride.

SS Stainless steel.

TOC Top of casing.

-- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW1A	03/31/88	36.35	—	—	29,000	ND	ND	ND	550	640	—	—	—
MW1A	01/31/89	36.35	—	—	11,200	—	260	ND	500	500	—	—	—
MW1A	02/24/94	36.35	9.42	26.93	11,000	2,500	70	ND	260	180	—	—	—
MW1A	08/03/94	36.35	12.00	24.35	13,000	7,100	61	50	280	230	—	—	—
MW1A	11/23/94	36.35	11.18	25.17	12,000	2,500	49	ND	300	190	—	—	—
MW1A	02/28/95	36.35	9.08	27.27	10,000	3,200	25	ND	110	67	—	—	—
MW1A	05/10/95	36.35	8.33	28.02	10,000	3,600	31	ND	140	81	—	—	—
MW1A	08/02/95	36.63	9.49	27.14	10,000	3,800	24	18	130	80	—	—	—
MW1A	11/02/95	36.63	11.05	25.58	12,000	3,400 ^a	ND	ND	190	150	—	—	—
MW1A	02/08/96	36.63	7.55	29.08	8,000	3,600 ^a	100	21	87	58	—	—	—
MW1A	05/08/96	36.63	7.52	29.11	9,200	—	11	ND	120	64	—	—	—
MW1A	08/09/96	36.63	9.63	27.00	—	—	—	—	—	—	—	—	—
MW1A	08/20/96	36.63	—	—	6,800	—	64	22	100	55	130	ND	—
MW1A	11/07/96	36.63	11.01	25.62	7,900	—	100	12	70	34	95	ND	—
MW1A	02/10/97	36.63	7.58	29.05	5,800	—	36	15	67	29	58	ND	—
MW1A	05/07/97	36.63	9.15	27.48	1,400	—	13	ND	11	ND	ND	—	—
MW1A	09/10/97	36.63	10.88	25.75	7,800	—	64	ND	70	26	120	ND	—
MW1A	02/12/98	36.63	5.52	31.11	ND	—	ND	ND	ND	ND	ND	—	—
MW1A	08/12/98	36.63	8.80	27.83	500	—	41	12	1.8	20	ND	—	—
MW1A	12/10/99	36.63	10.86	25.77	1,700	—	ND	1.4	6.2	3.3	ND	—	—
MW1A	01/14/00	36.63	11.33	25.30	4,600	—	ND	30	28	ND	ND	—	—
MW1A	10/27/00	36.63	10.30	26.33	3,500	—	<10	2.6	13	6.4	18	<5	—
MW1A	01/18/01	36.63	10.45	26.18	4,500	—	<10	3.9	12	4.7	<20	—	—
MW1A	07/10/01	36.63	10.72	25.91	2,000	—	<20	18	9.6	18	<20	<2	—
MW1A	11/27/01	16.34	Well resurveyed to new reference point										
MW1A	01/16/02	16.34	9.02	7.32	2,690	—	11.7	1.60	6.80	6.00	23.9	—	—
MW1A	07/08/02	16.34	10.43	5.91	1,570	—	12.0	11.0	<5.0	<5.0	24.0	<0.50	—
MW1A	01/23/03	16.34	8.84	7.50	2,040	—	16.5	3.5	8.70	5.90	—	<0.50	—
MW1A	07/09/03	16.34	9.97	6.37	1,440	—	8.60	1.0	7.3	5.2	13.6	<0.5	—
MW1A	01/15/04	16.34	9.39	6.95	1,640	—	0.70	5.2	4.0	2.8	—	<0.5	—
MW1A	07/07/04	16.34	10.75	5.59	2,210	—	18.7	2.9	3.7	1.5	—	<0.5	—
MW1A	12/17/08	16.34	11.92	4.42	2,400	—	<0.50	<0.50	1.6	<0.50	—	<0.50	ND
MW2A	02/24/94	36.61	9.52	27.09	6,400	4,500	31	ND	58	42	—	—	—
MW2A	08/23/94	36.61	12.05	24.56	7,500	7,100	42	21	71	53	—	—	—
MW2A	11/23/94	36.61	11.25	25.36	7,000	1,800	33	11	39	ND	—	—	—
MW2A	02/28/95	36.61	9.10	27.51	9,000	1,600	29	36	96	45	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW2A	05/10/95	36.61	8.42	28.19	5,100	1,600	20	27	32	35	—	—	—
MW2A	08/02/95	36.62	9.54	27.08	4,300	1,800	36	ND	11	16	—	—	—
MW2A	11/02/95	36.62	11.08	25.54	4,300	3,000 ^d	22	ND	10	11	—	—	—
MW2A	02/08/96	36.62	7.68	28.94	2,900	940 ^a	32	13	13	ND	—	—	—
MW2A	05/08/96	36.62	8.64	27.98	2,500	—	13	12	19	26	—	—	—
MW2A	08/09/96	36.62	9.71	26.91	—	—	—	—	—	—	—	—	—
MW2A	08/20/96	36.62	—	—	2,500	—	19	11	6.8	8.1	36	—	—
MW2A	11/07/96	36.62	11.04	25.58	4,700	—	58	7.3	5.3	ND	55	—	—
MW2A	02/10/97	36.62	7.75	28.87	2,600	—	12	10	35	15	ND	—	—
MW2A	05/07/97	36.62	9.23	27.39	3,300	—	25	18	16	11	ND	—	—
MW2A	09/10/97	36.62	10.91	25.71	2,800	—	24	ND	ND	ND	43	—	—
MW2A	02/12/98	36.62	5.59	31.03	3,800	—	10	11	30	14	ND	—	—
MW2A	08/12/98	36.62	8.85	27.77	1,300	—	0.8	8.7	2.4	4.7	ND	—	—
MW2A	12/10/99	36.62	10.90	25.72	1,300	—	ND	2.2	ND	ND	ND	—	—
MW2A	01/14/00	36.62	11.39	25.23	2,700	—	1.3	18	2.4	ND	ND	—	—
MW2A	10/27/00	36.62	10.48	26.14	2,600	—	9.6	2.4	<5.0	<5.0	7.9	—	—
MW2A	01/18/01	36.62	10.61	26.01	3,800	—	<5.0	2.1	3.0	2.0	<10	—	—
MW2A	07/10/01	36.62	10.78	25.84	2,100	—	<10	2.6	2.8	3.4	<10	—	—
MW2A	11/27/01	16.12	Well resurveyed to new reference point										
MW2A	01/16/02	16.12	9.11	7.01	2,500	—	9.80	5.10	6.50	9.80	16.0	—	—
MW2A	07/08/02	16.12	10.48	5.64	682	—	6.3	0.7	0.9	3.3	8.5	—	—
MW2A	01/23/03	16.12	8.94	7.18	1,180	—	8.8	3.1	4.8	5.8	—	<0.50	—
MW2A	07/09/03	16.12	10.03	6.09	1,430	—	7.80	1.5	3.1	3.4	10.5	<0.5	—
MW2A	01/15/04	16.12	9.48	6.64	1,530	—	0.50	4.8	2.2	2.9	—	<0.5	—
MW2A	07/07/04	16.12	10.80	5.32	797	—	5.70	1.3	1.7	1.1	—	<0.5	—
MW2A	12/17/08	16.12	12.03	4.09	1,300	—	<0.50	<0.50	<0.50	<0.50	—	<0.50	ND
MW3A	02/24/94	36.92	9.85	27.07	19,000	10,000	52	30	690	290	—	—	—
MW3A	08/23/94	36.92	12.33	24.59	14,000	11,000	44	24	1,000	100	—	—	—
MW3A	11/23/94	36.92	11.56	25.36	13,000	2,600	30	18	690	52	—	—	—
MW3A	02/28/95	36.92	9.35	27.57	8,500	—	11	ND	340	24	—	—	—
MW3A	05/10/95	36.92	8.55	28.37	7,600	3,800	ND	ND	400	45	—	—	—
MW3A	08/02/95	36.93	9.75	27.18	9,200	3,800	17	13	340	34	—	—	—
MW3A	11/02/95	36.93	11.29	25.64	9,200	4,400 ^d	31	ND	360	72	—	—	—
MW3A	02/08/96	36.93	7.97	28.96	6,900	3,800 ^d	38	ND	230	43	—	—	—
MW3A	05/08/96	36.93	8.82	28.11	7,700	—	ND	ND	270	38	—	—	—
MW3A	08/09/96	36.93	9.95	26.98	—	—	—	—	—	—	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW3A	08/20/96	36.93	—	—	5,600	—	8.0	29	180	23	12	—	—
MW3A	11/07/96	36.93	11.28	25.65	8,600	—	47	ND	150	29	ND	—	—
MW3A	02/10/97	36.93	7.95	28.98	8,300	—	28	ND	130	23	ND	—	—
MW3A	05/07/97	36.93	9.45	27.48	37,000	—	230	110	630	ND	ND	—	—
MW3A	09/10/97	36.93	11.13	25.80	5,500	—	16	ND	75	11	ND	—	—
MW3A	02/12/98	36.93	5.72	31.21	10,000	—	37	ND	84	25	ND	—	—
MW3A	08/12/98	36.93	9.05	27.88	5,600	—	4	18	39	19	ND	—	—
MW3A	12/10/99	36.93	11.21	25.72	5,900	—	ND	3.0	22	5.0	ND	—	—
MW3A	01/14/00	36.93	11.64	25.29	6,500	—	7.5	27	37	ND	ND	—	—
MW3A	10/27/00	36.93	10.78	26.15	6,300	—	<10	3.8	17	5.6	<20	—	—
MW3A	01/18/01	36.93	10.87	26.06	7,300	—	<20	3.1	14	3.3	<10	—	—
MW3A	07/10/01	36.93	11.03	25.90	5,200	—	7.3	8.0	11	9.6	<10	—	—
MW3A	11/27/01	16.42	Well resurveyed to new reference point										—
MW3A	01/16/02	16.42	9.38	7.04	4,900	—	19.0	<5.00	16.0	14.0	28.0	<5	—
MW3A	07/08/02	16.42	10.75	5.67	2,470	—	9.1	1.8	8.8	4.1	17.5	—	—
MW3A	01/23/03	16.42	9.20	7.22	2,240	—	12.5	4.5	7.9	28.0	—	<0.50	—
MW3A	07/09/03	16.42	10.28	6.14	2,850	—	10.8	2.8	8.3	5.5	15.7	<0.5	—
MW3A	01/15/04	16.42	9.77	6.65	2,810	—	1.20	8.2	5.9	9.1	—	<0.5	—
MW3A	07/07/04	16.42	11.07	5.35	2,250	—	15.9	2.7	5.8	1.8	—	<0.5	—
MW3A	12/17/08	16.42	12.45	3.97	1,500	—	<0.50	<0.50	0.58	<0.50	—	<0.50	ND
MW4A	08/02/95	37.18	9.63	27.55	ND	ND	ND	ND	ND	ND	—	—	—
MW4A	11/02/95	37.18	11.48	25.70	ND	ND	ND	ND	ND	ND	—	—	—
MW4A	02/08/96	37.18	8.18	29.00	ND	ND	ND	1.1	ND	0.92	—	—	—
MW4A	05/08/96	37.18	8.49	28.69	ND	—	ND	ND	ND	ND	—	—	—
MW4A	08/09/96	37.18	10.05	27.13	—	—	—	—	—	—	—	—	—
MW4A	08/20/96	37.18	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	11/07/96	37.18	11.48	25.70	ND	—	ND	ND	ND	0.88	ND	—	—
MW4A	02/10/97	37.18	8.11	29.07	ND	—	ND	2.4	ND	ND	ND	—	—
MW4A	05/07/97	37.18	9.64	27.54	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	09/10/97	37.18	11.32	25.86	—	—	—	—	—	—	—	—	—
MW4A	02/12/98	37.18	5.90	31.28	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	08/12/98	37.18	9.21	27.97	—	—	—	—	—	—	—	—	—
MW4A	12/10/99	37.18	11.46	25.72	ND	—	ND	0.39	ND	0.95	ND	—	—
MW4A	03/09/00	Well destroyed											
MW5A	08/02/95	35.91	8.74	27.17	1,300	220	16	0.68	1.3	4.3	—	—	—
MW5A	11/02/95	35.91	10.34	25.57	180	ND	1.9	1.2	ND	ND	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW5A	02/08/96	35.91	6.67	29.24	160	150	1.9	2.2	ND	0.89	—	—	—
MW5A	05/08/96	35.91	7.35	28.56	260	—	2.4	6.7	2.0	9.6	—	—	—
MW5A	08/09/96	35.91	8.81	27.10	—	—	—	—	—	—	—	—	—
MW5A	08/20/96	35.91	—	—	ND	—	ND	1.8	ND	ND	9.4	—	—
MW5A	11/07/96	35.91	10.25	25.66	—	—	—	—	—	—	—	—	—
MW5A	02/10/97	35.91	6.93	28.98	ND	—	ND	1.2	ND	ND	ND	—	—
MW5A	05/07/97	35.91	8.42	27.49	—	—	—	—	—	—	—	—	—
MW5A	09/10/97	35.91	10.15	25.76	—	—	—	—	—	—	—	—	—
MW5A	02/12/98	35.91	5.32	30.59	ND	—	ND	ND	ND	ND	ND	—	—
MW5A	08/12/98	35.91	8.19	27.72	—	—	—	—	—	—	—	—	—
MW5A	12/10/99	35.91	10.10	25.81	ND	—	ND	ND	ND	ND	ND	—	—
MW5A	03/09/00	Well destroyed											
MW6A	08/02/95	37.10	9.68	27.42	ND	ND	ND	ND	ND	ND	—	—	—
MW6A	11/02/95	37.10	11.26	25.84	ND	ND	ND	ND	ND	ND	—	—	—
MW6A	02/08/96	37.10	7.79	29.31	ND	ND	ND	1.3	ND	1.3	—	—	—
MW6A	05/08/96	37.10	8.38	28.72	ND	—	ND	1.6	ND	1.2	—	—	—
MW6A	08/09/96	37.10	9.82	27.28	—	—	—	—	—	—	—	—	—
MW6A	08/20/96	37.10	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW6A	11/07/96	37.10	11.02	26.08	—	—	—	—	—	—	—	—	—
MW6A	02/10/97	37.10	7.70	29.40	ND	—	ND	3.4	ND	ND	ND	—	—
MW6A	05/07/97	37.10	9.31	27.79	—	—	—	—	—	—	—	—	—
MW6A	09/10/97	37.10	11.08	26.02	—	—	—	—	—	—	—	—	—
MW6A	02/12/98	37.10	5.52	31.58	ND	—	ND	ND	ND	ND	ND	—	—
MW6A	08/12/98	37.10	8.91	28.19	—	—	—	—	—	—	—	—	—
MW6A	12/10/99	37.10	11.24	25.86	ND	—	ND	0.32	ND	ND	ND	—	—
MW6A	03/09/00	Well destroyed											
MW7A	11/02/95	37.39	11.77	25.62	ND	ND	ND	ND	ND	ND	—	—	—
MW7A	02/08/96	37.39	8.68	28.71	ND	75	ND	1.4	ND	1.5	—	—	—
MW7A	05/08/96	37.39	9.00	28.39	ND	—	2.2	6.3	1.4	7.9	—	—	—
MW7A	08/09/96	37.39	10.31	27.08	—	—	—	—	—	—	—	—	—
MW7A	08/20/96	37.39	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	11/07/96	37.39	11.81	25.58	ND	—	ND	0.96	ND	1.6	ND	—	—
MW7A	02/10/97	37.39	8.57	28.82	ND	—	ND	2.4	ND	ND	ND	—	—
MW7A	05/07/97	37.39	10.05	27.34	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	09/10/97	37.39	11.66	25.73	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	02/12/98	37.39	6.55	30.84	ND	—	ND	ND	ND	ND	ND	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW7A	08/12/98	37.39	9.65	27.74	ND	—	0.5	ND	ND	ND	ND	—	—
MW7A	12/10/99	37.39	11.80	25.59	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	03/09/00	Well destroyed											
MW-7	12/17/08	—	—	—	7,700	—	0.80	1.2	350	13	—	<0.50	ND

Notes: Well MW-7 was installed for the 76 Station site located to the southeast. Adopted from ETIC, 2009a. Quarterly Groundwater Monitoring Report, January.

a Unidentified hydrocarbons <C10

MTBE Methyl tertiary butyl ether.

ND Not detected at or above laboratory reporting limit.

TOC Top of casing.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-g Total Petroleum Hydrocarbons as gasoline.

VOCs Volatile organic compounds including tetrachlorethene, trichlorethene, and 1,2-dichloroethene.

µg/L Micrograms per liter.

— Not analyzed or not provided.

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES,
FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	Concentrations (µg/L)						
		Tertiary butyl alcohol	Methyl tertiary butyl ether	Diisopropyl ether	Ethyl tertiary butyl ether	Tertiary amyl methyl ether	1,2-Dichloroethane	1,2-Dibromoethane
MW1A	08/20/96	--	ND	--	--	--	--	--
MW1A	11/07/96	--	ND	--	--	--	--	--
MW1A	02/10/97	--	ND	--	--	--	--	--
MW1A	09/10/97	--	ND	--	--	--	--	--
MW1A	10/27/00	--	<5	--	--	--	--	--
MW1A	07/10/01	--	<2	--	--	--	--	--
MW1A	07/08/02	--	<0.50	--	--	--	--	--
MW1A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1A	12/17/08	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2A	12/17/08	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW3A	01/16/02	--	<5	--	--	--	--	--
MW3A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW3A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3A	12/17/08	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	12/17/08	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes: Well MW-7 was installed for the 76 Station site located to the southeast.
Adopted from ETIC, 2009a. Quarterly Groundwater Monitoring Report, January.

ND Not detected at or above laboratory reporting limit.

-- Not analyzed or not provided.

µg/L Micrograms per liter.

TABLE 4 SOIL SAMPLE ANALYTICAL RESULTS
FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Sample ID	Date	Depth (feet bgs)	Concentration (mg/kg)														
			TPH-d	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	EDB	1,2-DCA	VOCs	
VW1	11/24/10	5.5-6	<5.0h	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	--
VW2	11/23/10	5.5-6	<5.0h	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	0.015abc, 0.0036bd, 0.00047be, 0.00047bf, 0.0011bg
VW3	11/24/10	5.5-6	<5.0h	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	--
VW4	11/23/10	5.5-6	<5.0h	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	0.00030bg
VW5	11/24/10	5.5-6	<5.0h	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	--

Note:

- a Analyte was present in the associated method blank.
- b Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- c Acetone.
- d 2-Butanone.
- e n-Butylbenzene.
- f sec-Butylbenzene.
- g 1,2,4-Trimethylbenzene.
- h The sample extract was subjected to silica gel treatment prior to analysis.

- TPH-g Total Petroleum Hydrocarbons as gasoline.
- TPH-d Total Petroleum Hydrocarbons as diesel.
- EDB Ethylene dibromide (1,2-dibromoethane or 1,2-DBA)
- 1,2-DCA 1,2-Dichloroethane.
- DIPE Diisopropyl ether.
- MTBE Methyl tertiary butyl ether by EPA Method 8260B.
- TBA Tertiary butyl alcohol.
- TAME Tertiary amyl methyl ether.
- ETBE Tertiary butyl ethyl ether.
- VOCs Volatile organic compounds.
- Not analyzed.
- mg/kg Milligrams per kilogram.

TABLE 5 SOIL SAMPLE ANALYTICAL RESULTS FOR METALS
 FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Sample ID	Date	Depth	Concentration (mg/kg)				
			Cadmium	Chromium	Lead	Nickel	Zinc
VW2	11/23/10	5.5-6	<0.500	26.4	6.88a	38.8	31.9
VW4	11/23/10	5.5-6	<0.500	26.7	6.74a	38.1	30.9

Notes:

a Analyze was present in the associated method blank.

mg/kg Milligrams per kilogram.

TABLE 6 PHYSICAL PROPERTIES ANALYTICAL RESULTS FOR SOIL SAMPLES,
FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Boring ID	Sample Date	Sample Depth (feet bgs)	Moisture Content (% by weight)	Total Porosity (% of bulk volume)	Air-Filled Porosity (% of bulk volume)	Bulk Density (gm/cc)
VW1	11/24/10	5-5.5	17.0	31.7	1.1	1.80
VW2	11/23/10	5-5.5	15.1	29.1	0.8	1.88
VW3	11/24/10	5-5.5	18.3	33.7	1.7	1.75
VW4	11/23/10	5-5.5	20.1	36.1	2.2	1.69
VW5	11/24/10	5-5.5	17.0	33.9	4.3	1.74

feet bgs Feet below ground surface.
gm/cc Grams per cubic centimeter.
% Percent.

TABLE 7 SOIL VAPOR SAMPLE ANALYTICAL RESULTS, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Boring ID	Depth (feet bgs)	Date	Concentration (% by Volume)			Concentration ($\mu\text{g}/\text{m}^3$)												
			Oxygen and Argon	Methane	Carbon Dioxide	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	MTBE	TBA	DIPE	ETBE	1,2-DCA	TAME	EDB	VOCs
VW1	5 - 6	11/26/10	12.7	<0.645	4.71	18	18	5.7	18	<9,000	<9.9	<8.3	<11	<11	<2.8	<11	<5.3	--
VW2	5 - 6	11/26/10	2.12	<0.670	11.2	120	41	140	330	580,000	<24	58	<28	<28	<6.8	<28	<13	120a, 40b, 25c, 39d, 240e, 78f
VW3	5 - 6	11/26/10	2.13	<0.755	10.7	<39	<46	<53	230	1,400,000	<170	<150	<200	<200	<49	<200	<93	--
VW3 (DUP)	5 - 6	11/26/10	2.21	<0.710	10.9	<36	<43	<49	220	1,500,000	<160	<140	<190	<190	<46	<190	<87	--
VW4	5 - 6	11/26/10	4.26	<0.760	9.77	32	11	4.2	<13	15,000	<11	<9.2	<13	<13	<3.1	<13	<5.8	20a, 7.4g, 15d
VW5	5 - 6	11/26/10	11.8	<0.660	9.95	9.5	5.4	<3.0	<12	<9,200	<9.9	<8.3	<11	<11	<2.8	<11	<5.3	--

Notes:

- a Acetone.
 - b 2-Butanone.
 - c 4-Ethyltoluene.
 - d Tetrachloroethene.
 - e 1,3,5-Trimethylbenzene.
 - f 1,2,4-Trimethylbenzene.
 - g Chloroform.
-
- feet bgs Feet below ground surface.
 - 1,2-DCA 1,2-Dichloroethane.
 - EDB Ethylene dibromide (1,2-dibromoethane or 1,2-DBA).
 - DIPE Diisopropyl ether.
 - ETBE Ethyl tertiary butyl ether.
 - MTBE Methyl tertiary butyl ether.
 - TAME Tertiary amyl methyl ether.
 - TBA Tertiary butyl alcohol.
 - TPH-g Total Petroleum Hydrocarbons as gasoline.
 - VOCs Volatile organic compounds.
-
- DUP Duplicate.
 - Not analyzed or not applicable.
 - $\mu\text{g}/\text{m}^3$ Micrograms per cubic meter.

TABLE 8 TIER I ENVIRONMENTAL SCREENING LEVELS FOR SHALLOW SOIL VAPOR
FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Chemical	Date	Sample ID	Depth (feet bgs)	Maximum Detected Soil Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Tier I ESLs for Potential Vapor Intrusion Concern ^a			
					Residential Land Use		Commercial/Industrial Land Use	
					Carcinogenic Effects ($\mu\text{g}/\text{m}^3$)	Non-Carcinogenic Effects ($\mu\text{g}/\text{m}^3$)	Carcinogenic Effects ($\mu\text{g}/\text{m}^3$)	Non-Carcinogenic Effects ($\mu\text{g}/\text{m}^3$)
Benzene	11/26/10	VW2	5-6	120	84	6,300	280	18,000
Toluene	11/26/10	VW2	5-6	41	NA	63,000	NA	180,000
Ethylbenzene	11/26/10	VW2	5-6	140	980	210,000	3,300	580,000
Total Xylenes	11/26/10	VW2	5-6	330	NA	21,000	NA	58,000
TPH-g	11/26/10	VW3 (DUP)	5-6	1,500,000	NA	10,000	NA	29,000
Acetone ^b	11/26/10	VW2	5-6	120	NA	660,000	NA	1,800,000
2-Butanone ^b	11/26/10	VW2	5-6	40	NA	1,000,000	NA	2,900,000
Tetrachloroethene ^b	11/26/10	VW2	5-6	39	410	83,000	1,400	230,000
Chloroform	11/26/10	VW4	5-6	7.4	460	63,000	1,500	180,000

Notes:

1,2-DCA 1,2-Dichloroethane.
 2-Butanone This compound is also known as methyl ethyl ketone or MEK.
 bgs Below ground surface.
 ESL Environmental Screening Level.
 NA Not applicable.
 TPH-g Total Petroleum Hydrocarbons as gasoline.
 VOCs Volatile organic compounds.

$\mu\text{g}/\text{m}^3$ Micrograms per cubic meter.

^a From Table E-2: Shallow soil gas screening levels for evaluation of potential vapor intrusion concerns.

^b All other VOCs are below the laboratory reporting limits with the exception of TBA, 4-ethyltoluene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene (see Table 7). No ESLs have been established for these compounds.

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final, San Francisco Regional Water Quality Control Board, November, 2007 (Revised May 2008).

Tier I ESLs adopted by RWQCB correspond to a 1×10^{-6} target risk level and a target hazard quotient of 0.2.

Appendix A
Regulatory Correspondence



20 July 2010

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Risk Assessment Work Plan and Preferential Pathway Survey and Work Plan Addendum

Former Mobil Station 04FGN, 14994 East 14th Street, San Leandro, California
Fuel Leak Case No. RO0000422 / GeoTracker Global ID T0600100912

Dear Ms. Jakub:

At the request of ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation, ETIC Engineering, Inc. (ETIC) submitted a Risk Assessment Work Plan and Preferential Pathway Survey dated October 2008 and Work Plan Addendum dated June 2009 for the above referenced site to the Alameda County Health Care Services Agency (ACHCSA).

The scope of work outlined in these documents includes a vapor intrusion assessment with the collection of soil vapor samples following the installation of soil vapor wells.

As of the date of this letter, the ACHCSA has not issued a written response to the referenced Work Plan Addendum. Therefore, ETIC hereby notifies the ACHCSA of its intent to invoke the "60-day policy" under Title 23, Chapter 16, Section 2722 of the California Underground Storage Tank Regulations, and implement the proposed scope of work outlined in the Risk Assessment Work Plan and Preferential Pathway Survey dated October 2008 and Work Plan Addendum dated June 2009. The proposed work including the submittal of all necessary permits will begin on or after 30 July 2010.

Unless we hear otherwise from you, ETIC trusts that this notification meets your requirement. Should you need additional information regarding this project, please contact me at (925) 602-4710 ext. 24.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan Campbell".

Bryan Campbell
Program Manager

cc: Ms. Jennifer Sedlachek, ExxonMobil Environmental Services Company
Ms. Jana Gluckman, Property Owner

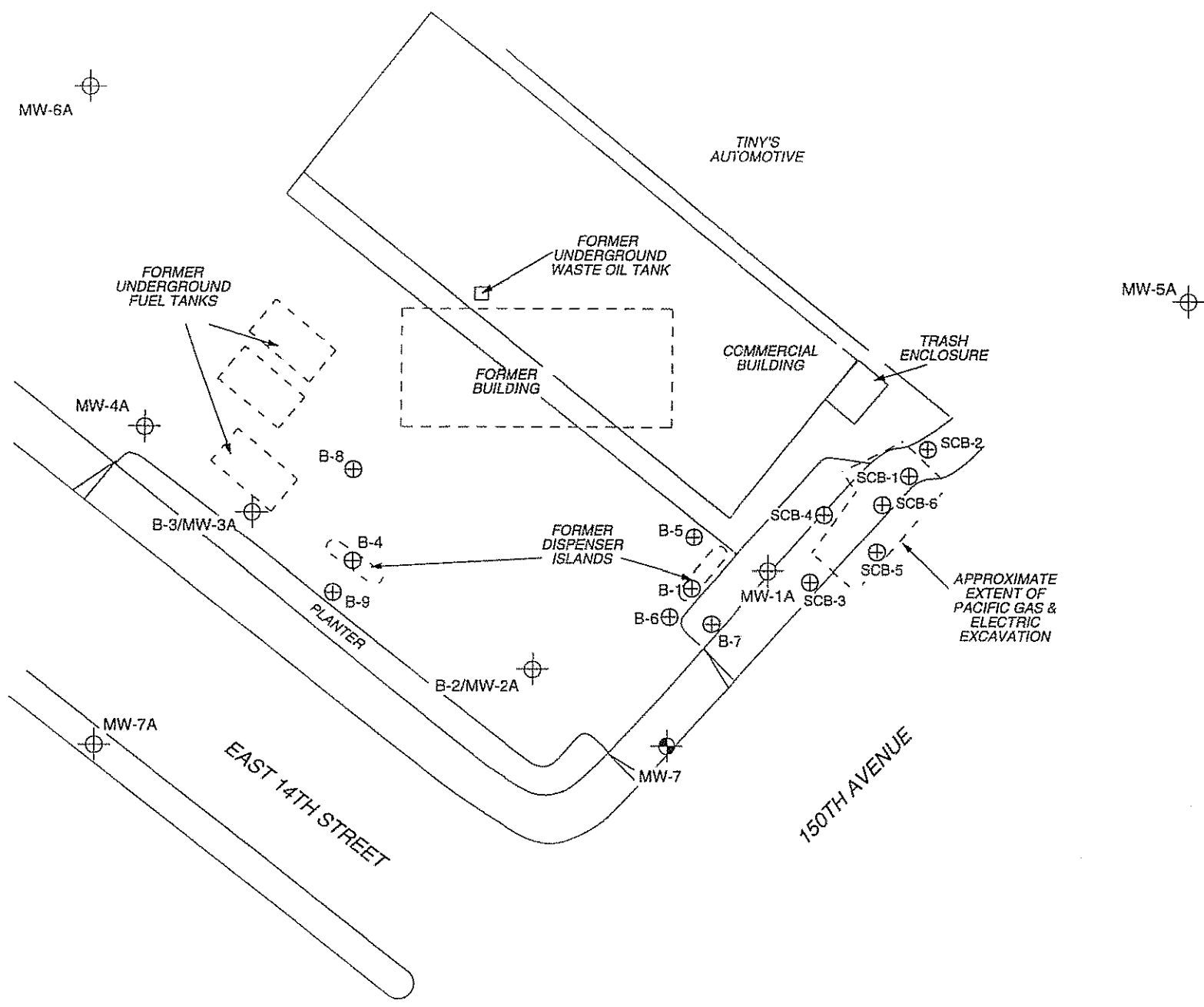
Appendix B

Summary of Soil Sample Analysis (Alton 1998)

Table 1
Summary of Soil Sample Analysis*

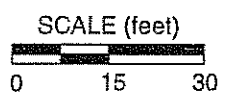
Former Mobil Station 04-FGN

Boring ID	Date	Sample Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	TOG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	PCE (ppm)	TCE (ppm)	Trans-1, 2-DCE (ppm)
SCB-1	09/29/87	4.0	72	200	—	—	—	—	200	—	—	—
SCB-1	09/29/87	8.6	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-2	09/29/87	2.6	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-2	09/29/87	7.1	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-3	09/29/87	5.0	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-3	09/29/87	8.5	320	ND<50	—	—	—	—	ND<50	—	—	—
SCB-4	09/29/87	4.5	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-4	09/29/87	10.5	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-5	09/29/87	4.0	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-5	09/29/87	8.0	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
SCB-6	09/29/87	5.0	ND<10	ND<50	—	6.6	15.0	8.0	ND<50	6.6	15.0	8.0
SCB-6	09/29/87	9.1	ND<10	ND<50	—	—	—	—	ND<50	—	—	—
B-1	02/10/94	6.5	1,500	160	160	ND<0.005	2.9	18	85	—	—	—
B-1	02/10/94	11.5	580	120	ND<30	1.2	1.1	5.5	18	—	—	—
B-2	02/10/94	7.5	1.4	1.6	ND<30	ND<0.005	0.0065	ND<0.005	ND<0.005	—	—	—
B-2	02/10/94	11.5	49	12	ND<30	0.094	ND<0.005	0.18	0.33	—	—	—
B-3	02/10/94	6.5	10	2.4	100	ND<0.005	0.028	0.027	0.049	—	—	—
B-3	02/10/94	11.5	190	31	ND<30	0.70	0.11	2.5	0.52	—	—	—
B-4	02/10/94	6.5	4,100	650	130	ND<0.005	15	57	390	—	—	—
B-4	02/10/94	11.5	460	62	ND<30	ND<0.005	1.0	4.7	23	—	—	—
B-5	06/01/95	6.5	2.5	ND<1.0	—	ND<0.0050	ND<0.0050	0.0076	0.17	—	—	—
B-5	06/01/95	11.5	8.6	2.1	—	0.025	0.025	0.020	0.11	—	—	—
B-6	06/01/95	6.5	3.3	4.3	—	ND<0.0050	ND<0.0050	0.068	0.16	—	—	—
B-6	06/01/95	11.5	44	2.7	—	0.053	0.078	1.4	5.3	—	—	—
B-7	06/01/95	6.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
B-7	06/01/95	11.5	130	8.1	—	0.28	0.31	0.92	1.2	—	—	—



LEGEND

- MW-7A Groundwater monitoring well (Mobil)
- MW-7 Groundwater monitoring well (Unocal)
- B-4 Soil boring



SITE DETAIL SHOWING EXCAVATION AND SOIL SAMPLE LOCATIONS

Former Mobil Station 04-FGN
 14994 East 14th Street
 San Leandro, California

FIGURE 3



SOURCE: Allsto Engineering Group

Summary of Soil Sample Analysis*

Former Mobil Station 04-FGN

Boring ID	Sample Date	Sample Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	TOG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	PCE (ppm)	TCE (ppm)	Trans-1,2-DCE (ppm)
B-8	06/01/95	6.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
B-8	06/01/95	11.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
B-9	06/01/95	6.5	ND<1.0	1.4	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
B-9	06/01/95	11.5	2.5	1.7	—	ND<0.0050	0.0053	0.0059	0.0052	—	—	—
MW-4A	06/01/95	6.5	ND<1.0	2.2	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-4A	06/01/95	11.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-5A	06/01/95	6.5	ND<1.0	1.6	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-5A	06/01/95	11.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-6A	06/02/95	6.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-6A	06/02/95	11.5	ND<1.0	ND<1.0	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-7A	07/21/95	6.5	ND<1.0	—	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—
MW-7A	07/21/95	11.5	ND<1.0	—	—	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	—	—

NOTES:

- * = Source: Alisto Engineering Group; SCB borings drilled by Subsurface Consultants, Inc.
- TPH-G = total petroleum hydrocarbons as gasoline
- TPH-D = total petroleum hydrocarbons as diesel
- TOG = total oil and grease
- PCE = tetrachloroethylene
- TCE = trichloroethylene
- Trans-1,2-DCE = trans-1,2-dichloroethylene
- ppm = parts per million
- ND = not detected at or above method detection limit
- = not analyzed / not applicable

Appendix C

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: 11/12/2010 By jamesy

Permit Numbers: W2010-0858
Permits Valid from 11/23/2010 to 11/24/2010

Application Id: 1289514687108
Site Location: Former Mobil Station 04FGN

City of Project Site:San Leandro

Project Start Date: 11/23/2010
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Completion Date:11/24/2010

Applicant: ETIC Engineering, Inc. - Bryan Campbell
2285 Morello Avenue, Pleasant Hill, CA 94523

Phone: 925-602-4710 x24

Property Owner: Jana Gluckman
2110 Stonehaven Dr., Los Altos, CA 94024

Phone: --

Client: ExxonMobil Environmental Services Company
4096 Piedmont Avenue, #194, Oakland, CA 94611

Phone: 510-547-8196

Contact: Erik Appel

Phone: 925-602-4710 x21
Cell: 925-642-2545

	Total Due:	\$265.00
Receipt Number: WR2010-0386	Total Amount Paid:	\$265.00
Payer Name : ETIC Engineering, Inc.	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Construction-Vapor monitoring well-Vapor monitoring well - 5 Wells
Driller: Cascade Drilling, L.P. - Lic #: 938110 - Method: other

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0858	11/12/2010	02/21/2011	VW1	4.00 in.	0.25 in.	5.00 ft	6.00 ft
W2010-0858	11/12/2010	02/21/2011	VW2	4.00 in.	0.25 in.	5.00 ft	6.00 ft
W2010-0858	11/12/2010	02/21/2011	VW3	4.00 in.	0.25 in.	5.00 ft	6.00 ft
W2010-0858	11/12/2010	02/21/2011	VW4	4.00 in.	0.25 in.	5.00 ft	6.00 ft
W2010-0858	11/12/2010	02/21/2011	VW5	4.00 in.	0.25 in.	5.00 ft	6.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend

Alameda County Public Works Agency - Water Resources Well Permit

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. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an 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.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

8. Applicant shall contact assigned inspector listed on the top of the permit 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.

9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

10. 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.

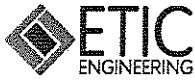
11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

Appendix D

Soil Boring Logs, Well Completion Diagrams, and DWR Forms

MAJOR DIVISIONS			TYPICAL NAMES		
COARSE-GRAINED SOILS More than half is coarser than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW		Well graded gravels with or without sand, little or no fines.
		Gravels with over 12% fines	GP		Poorly graded gravels with or without sand, little or no fines.
			GM		Silty gravels, silty gravels with sand.
		GC		Clayey gravels, clayey gravels with sand.	
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW		Well graded sands with or without gravel, little or no fines.
		Sands with over 12% fines	SP		Poorly graded sands with or without gravels, little or no fines.
			SM		Silty sands with or without gravel.
		SC		Clayey sands with or without gravel.	
FINE-GRAINED SOILS More than half is finer than No. 200 sieve	SILTS AND CLAYS liquid limit 50% or less		ML		Inorganic silts and very fine sands, rock flour, silts with sands and gravels.
			CL		Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.
			OL		Organic silts or clays of low plasticity.
	SILTS AND CLAYS liquid limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays or clays of medium to high plasticity.
HIGHLY ORGANIC SOILS			PT		Peat and other highly organic soils.
SYMBOLS			DRILL LOG ROCK TYPES		
		Samples Air Soil Water Open Hole	Limestone Dolomite Mudstone Siltstone Sandstone Igneous		
		UNIFIED SOIL CLASSIFICATION SYSTEM DESCRIPTIONS AND SYMBOLS USED ON ETIC DRILL LOGS			



CLIENT EXXONMOBIL	SITE NUMBER 04FGN	LOCATION 14994 East 14th Street San Leandro, California
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LOG OF SOIL BORING: **VW1**

DRILLING AND SAMPLING METHODS: Borehole advanced to 6 feet below ground surface using an air knife and a 4-inch diameter hand auger. Sampled with a slide hammer and 6-inch long liners.

COORDINATES: N2083680.1 :E6090420.9
 ELEVATION TOP OF CASING:
 CASING BELOW SURFACE:

WATER LEVEL				START TIME 1110	FINISH TIME 1145
TIME				DATE 11/24/10	DATE 11/24/10
DATE					
REFERENCE					

DRILLING COMPANY: Cascade Drilling
 LICENSE NUMBER: C57-938110

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER								Unpaved	
				0					DESCRIPTION BY: Yuko Mamiya	DETAILS
				0-1				CL	SILTY CLAY WITH TRACE SAND - dark yellowish brown (10YR 4/4), stiff, low plasticity, fine grained sand, very moist. - occasional subrounded gravel up to 2 inches in diameter.	Single-bolt, Morrison well box, set in concrete. Swagelok valve and cap 4-inch diameter borehole.
				1-2				SP	GRAVELLY SAND WITH SILT - dark olive brown (2.5Y 3/4), medium dense, coarse grained sand, subrounded gravel up to 2 inches in diameter, very moist to wet.	Hydrated granular bentonite to 4 feet below ground surface.
				2-3				CL	SILTY CLAY WITH SOME GRAVEL - dark yellowish brown (10YR 4/4), stiff, low plasticity, subrounded gravel up to 2 inches in diameter, very moist.	0.25-Inch diameter 316L stainless steel tubing to 5.25 feet below ground surface.
				3-4				CL		
				4-5						Dry granular bentonite from 4 to 5 feet below ground surface.
6	6			5-6				ML	CLAYEY SILT WITH SOME SAND - dark olive gray (5Y 3/2), stiff, low plasticity, fine grained sand, moist.	#2/12 sand from 5 to 6 feet below ground surface. 0.4-inch diameter 0.0057-inch pore size stainless steel screen from 5.25 to 5.75 feet below ground surface. Implant anchor
6	6			6					Boring terminated at 6 feet below ground surface.	
				7						
				8						
				9						
				10						

LOG OF SOIL BORING_04FGN.GPJ_ETIC.GDT_3/18/11



LOG OF SOIL BORING:

VW2

COORDINATES: N2083671.7 :E6090382.4

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling

LICENSE NUMBER: C57-938110

CLIENT EXXONMOBIL	SITE NUMBER 04FGN	LOCATION 14994 East 14th Street San Leandro, California
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DRILLING AND SAMPLING METHODS: Borehole advanced to 6 feet below ground surface using an air knife and a 4-inch diameter hand auger. Sampled with a slide hammer and 6-inch long liners.

WATER LEVEL				START TIME 1000	FINISH TIME 1045
TIME				DATE 11/23/10	DATE 11/23/10
DATE					
REFERENCE					

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER								Asphalt	
				0					DESCRIPTION BY: Yuko Mamiya	DETAILS
				0				AC/AB	ASPHALT from surface to 3 inches below ground surface.	<p>Single-bolt, Morrison well box, set in concrete. Swagelok valve and cap 4-inch diameter borehole.</p> <p>Hydrated granular bentonite to 4 feet below ground surface.</p> <p>0.25-inch diameter 316L stainless steel tubing to 5.25 feet below ground surface.</p> <p>Dry granular bentonite from 4 to 5 feet below ground surface.</p> <p>#2/12 sand from 5 to 6 feet below ground surface. 0.4-inch diameter 0.0057-inch pore size stainless steel screen from 5.25 to 5.75 feet below ground surface.</p>
				1				CL	AGGREGATE BASE from 3 inches to 1 foot below ground surface.	
				2				CL	CLAY WITH SILT - black (5Y 2.5/1), stiff, low to medium plasticity, moist,	
				3				ML	CLAYEY SILT WITH SOME SAND - dark olive gray (5Y 3/2), very stiff to hard, low plasticity, fine grained sand, moist.	
				4						
				5						
6	6			6						
6	6			6						
				7						
				8						
				9						
				10						
									Boring terminated at 6 feet below ground surface.	

LOG OF SOIL BORING 04FGN.GPJ ETIC.CDT 3/16/11



LOG OF SOIL BORING:

VW3

COORDINATES: N2083682.6 :E6090318.3

ELEVATION TOP OF CASING:

CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling

LICENSE NUMBER: C57-938110

CLIENT EXXONMOBIL	SITE NUMBER 04FGN	LOCATION 14994 East 14th Street San Leandro, California
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DRILLING AND SAMPLING METHODS: Borehole advanced to 6 feet below ground surface using an air knife and a 4-inch diameter hand auger. Sampled with a slide hammer and 6-inch long liners.

WATER LEVEL				START TIME 0930	FINISH TIME 1000
TIME				DATE 11/24/10	DATE 11/24/10
DATE					
REFERENCE					

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER								Asphalt	
				0					DESCRIPTION BY: Yuko Mamiya	DETAILS
				0				AC/AB	ASPHALT from surface to 3 inches below ground surface.	
				1				CLAY WTH SILT - black (5Y 2.5/1), stiff, low to medium plasticity, moist.		
				2				CL		
				3				CLAYEY SILT WITH SOME SAND - dark olive gray (5Y 3/2), very stiff to hard, low plasticity, fine grained sand, moist.		
				4				ML		
				5						
6	6			6					Boring terminated at 6 feet below ground surface.	
6	6			6						
				7						
				8						
				9						
				10						

LOG OF SOIL BORING 04FGN.GPJ ETIC.GDT 3/16/11



LOG OF SOIL BORING:

VW4

COORDINATES: N2083711.1 :E6090340.7
 ELEVATION TOP OF CASING:
 CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling
 LICENSE NUMBER: C57-938110

CLIENT EXXONMOBIL	SITE NUMBER 04FGN	LOCATION 14994 East 14th Street San Leandro, California
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DRILLING AND SAMPLING METHODS: Borehole advanced to 6 feet below ground surface using an air knife and a 4-inch diameter hand auger. Sampled with a slide hammer and 6-inch long liners.

WATER LEVEL				START TIME 1400	FINISH TIME 1500
TIME				DATE 11/23/10	DATE 11/23/10
DATE				REFERENCE	

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Asphalt	
				0						DESCRIPTION BY: Yuko Mamiya	DETAILS
				0					AC/AB	ASPHALT from surface to 3 inches below ground surface. AGGREGATE BASE from 3 inches to 1 foot below ground surface.	Single-bolt, Morrison well box, set in concrete. Swagelok valve and cap 4-inch diameter borehole.
				1					CL	CLAY WTH SILT - black (5Y 2.5/1), stiff, low to medium plasticity, moist.	Hydrated granular bentonite to 4 feet below ground surface.
				2							0.25-Inch diameter 316L stainless steel tubing to 5.25 feet below ground surface.
				3						CLAYEY SILT WITH SOME SAND - dark olive gray (5Y 3/2), very stiff to hard, low plasticity, fine grained sand, moist.	
				4					ML		Dry granular bentonite from 4 to 5 feet below ground surface.
				5							#2/12 sand from 5 to 6 feet below ground surface.
6	6			6							0.4-inch diameter 0.0057-inch pore size stainless steel screen from 5.25 to 5.75 feet below ground surface. Implant anchor
6	6			6						Boring terminated at 6 feet below ground surface.	
				7							
				8							
				9							
				10							

LOG OF SOIL BORING 04FGN.GPJ ETIC.GDT 3/16/11



LOG OF SOIL BORING: **VW5**

COORDINATES: N2083724.3 :E6090320.3
 ELEVATION TOP OF CASING:
 CASING BELOW SURFACE:

DRILLING COMPANY: Cascade Drilling
 LICENSE NUMBER: C57-938110

CLIENT EXXONMOBIL	SITE NUMBER 04FGN	LOCATION 14994 East 14th Street San Leandro, California
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DRILLING AND SAMPLING METHODS: Borehole advanced to 6 feet below ground surface using an air knife and a 4-inch diameter hand auger. Sampled with a slide hammer and 6-inch long liners.

WATER LEVEL				START TIME 0800	FINISH TIME 0900
TIME				DATE 11/24/10	DATE 11/24/10
DATE					
REFERENCE					

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Asphalt	
				0						DESCRIPTION BY: Yuko Mamiya	DETAILS
				0					AC/AB	ASPHALT from surface to 3 inches below ground surface. AGGREGATE BASE from 3 inches to 1 foot below ground surface.	
				1					CL	CLAY WTH SILT - black (5Y 2.5/1), stiff, low to medium plasticity, moist.	
				2							
				3						CLAYEY SILT WITH SOME SAND - dark olive gray (5Y 3/2), very stiff to hard, low plasticity, fine grained sand, moist.	
				4					ML		
				5							
6	6			6							
6	6			6						Boring terminated at 6 feet below ground surface.	
				7							
				8							
				9							
				10							

LOG OF SOIL BORING_04FGN.GPJ_ETIC.GDT_3/16/11

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

FILENAME: BSCDMP007 12/25/97



SITE MAP
FORMER MOBIL 04FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

LEGEND	
	Mobil groundwater monitoring well
	Unocal groundwater monitoring well
	Vapor monitoring well
	Destroyed monitoring well

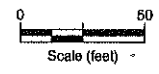
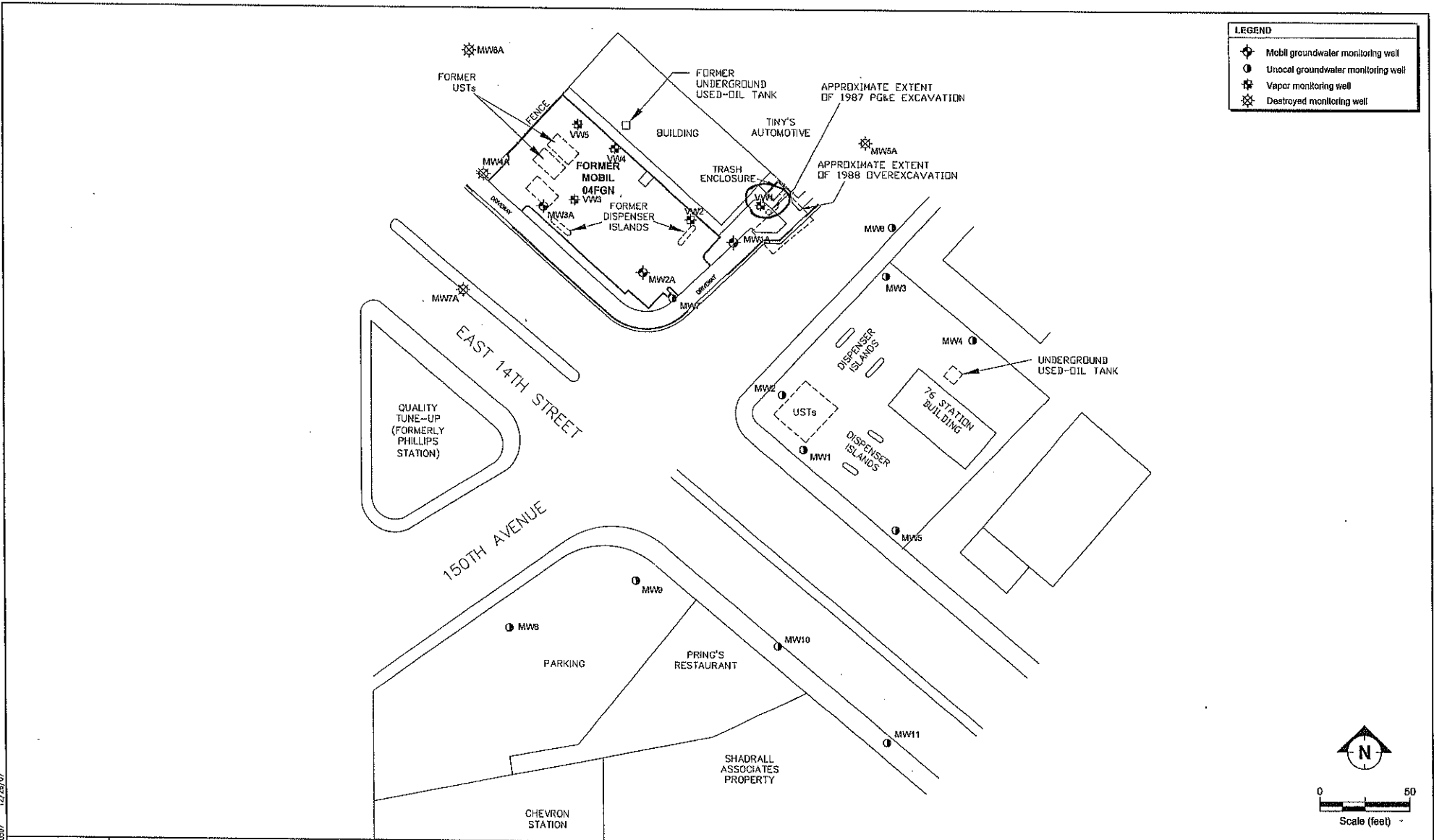


FIGURE:
1

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

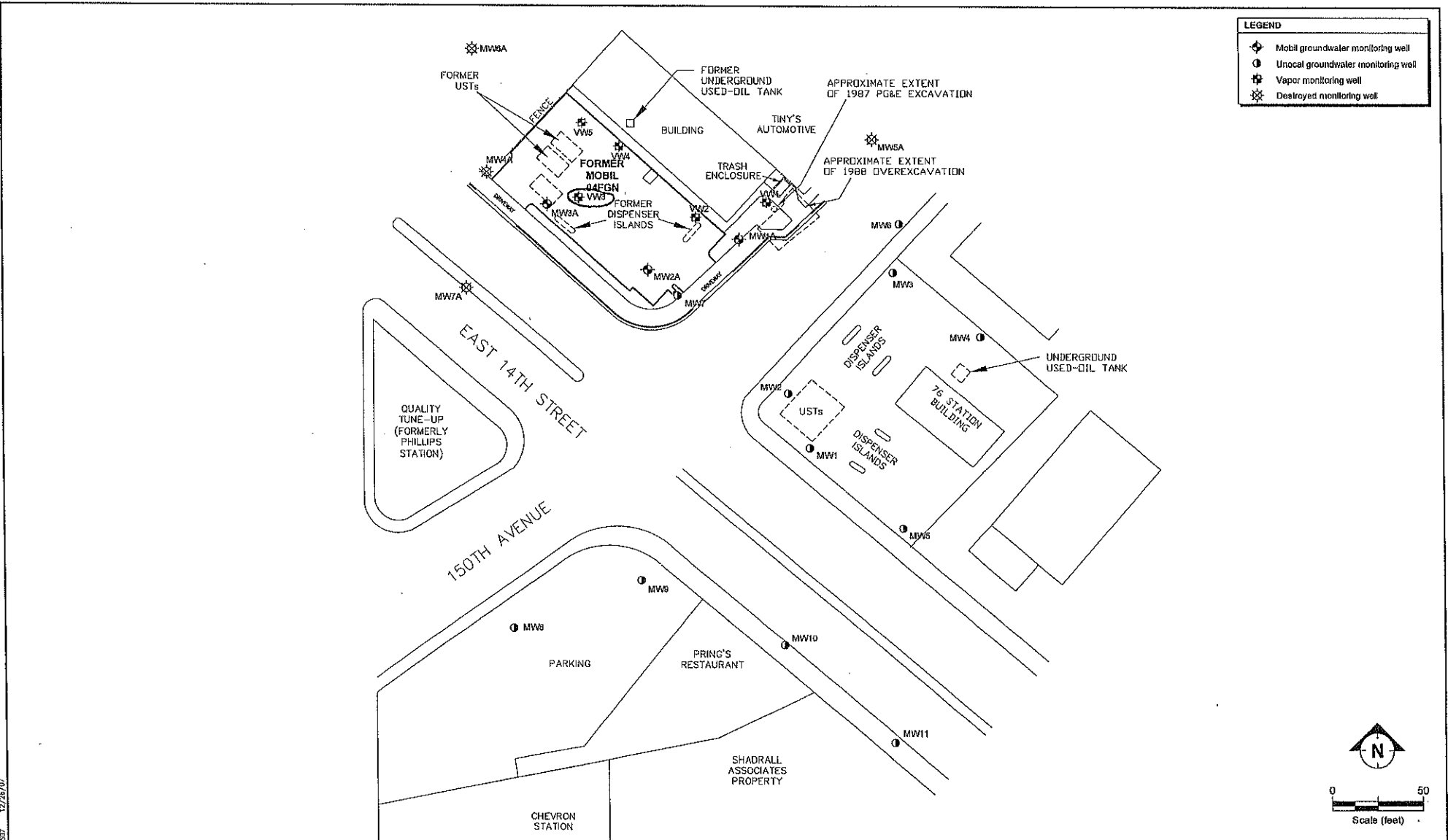
REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

FILENAME: BENTENPRODOT 12/28/07



SITE MAP
 FORMER MOBIL 04FGN
 14994 EAST 14TH STREET
 SAN LEANDRO, CALIFORNIA

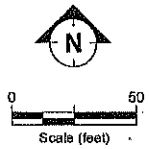


FIGURE:
1

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

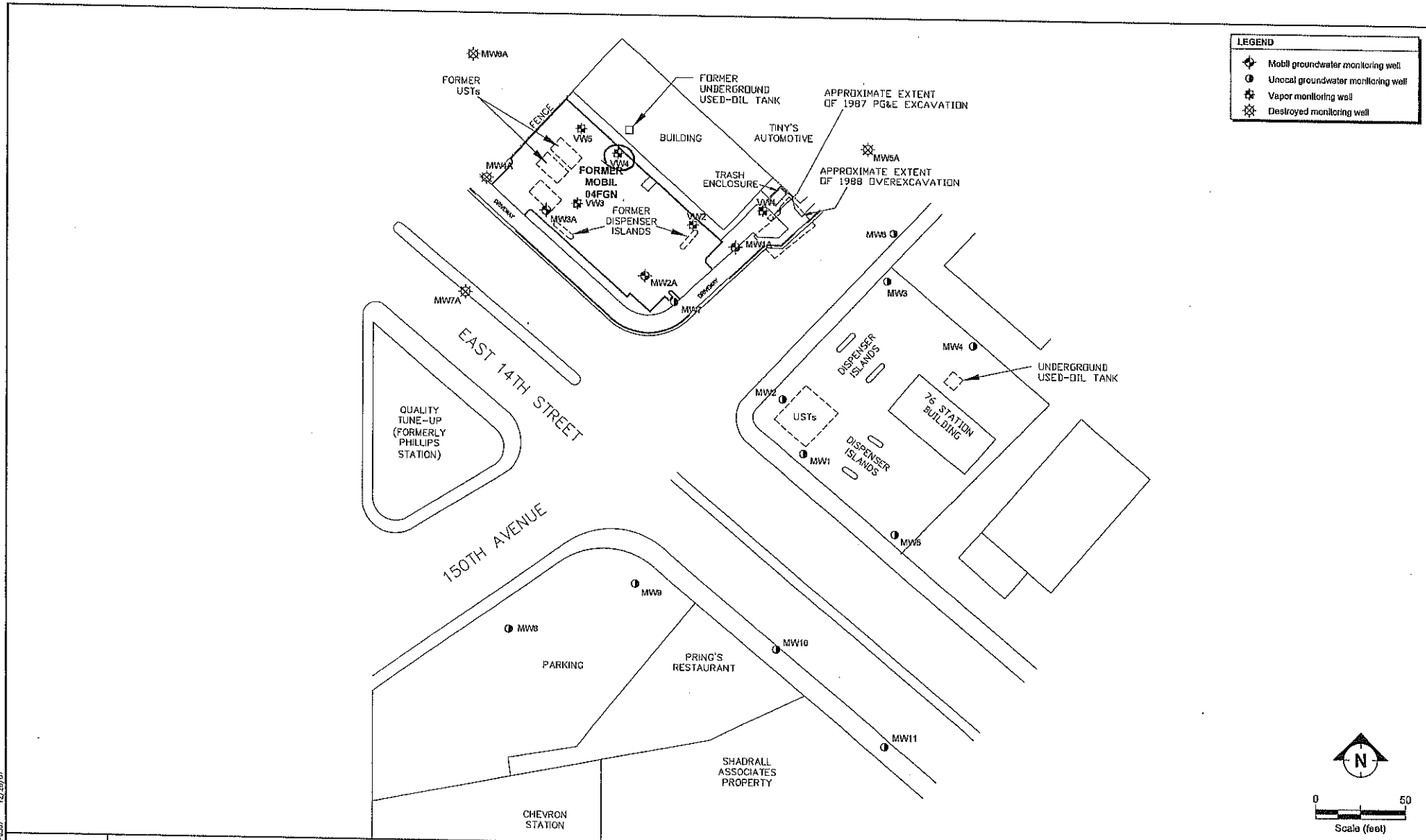
REVISION: BGSUMPSST 12/26/07



SITE MAP
FORMER MOBIL 04FGN
14994 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

FIGURE:

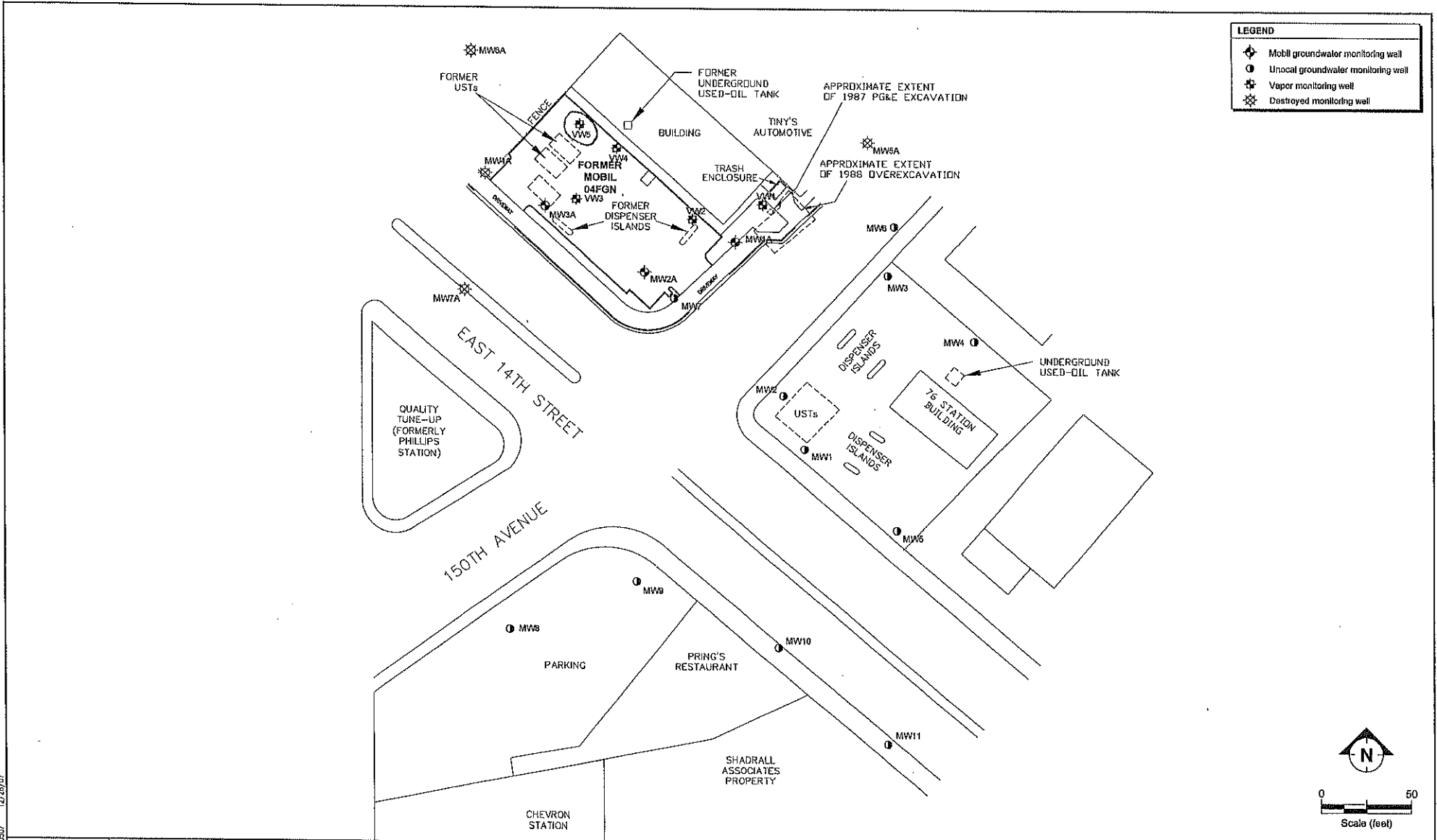
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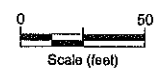
CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



LEGEND	
	Mobil groundwater monitoring well
	Unocal groundwater monitoring well
	Vapor monitoring well
	Destroyed monitoring well



FILENAME: BAKEMAP0507 12/26/07



SITE MAP
 FORMER MOBIL 04FGN
 14994 EAST 14TH STREET
 SAN LEANDRO, CALIFORNIA

FIGURE:
1

Appendix E
Field Protocols

PROTOCOLS FOR INSTALLATION AND SAMPLING OF SOIL VAPOR WELLS

SUBSURFACE CLEARANCE SURVEY PROCEDURES

Prior to drilling, the proposed locations of borings are marked with white paint. Underground Service Alert (USA) is contacted prior to subsurface activities and a "ticket" is issued for this investigation. USA members mark underground utilities in the delineated areas using standard color code identifiers.

Once USA has marked the site, all proposed borehole locations are investigated by subsurface clearance surveys to identify possible buried hazards (pipelines, drums, tanks). Subsurface clearance surveys use several geophysical methods to locate shallow buried man-made objects. The geophysical methods include electromagnetic induction (EMI) profiling, ground penetrating radar (GPR), and/or magnetic surveying. The choice of methods depends on the target object and potential interference from surrounding features.

Prior to drilling, all boreholes are cleared of underground utilities to a depth of at least 4 feet below ground surface (bgs) in "non-critical zones" and to 8 feet bgs in "critical zones". Critical zones are defined as locations that are within 10 feet from the furthest edge of any underground storage tank (UST), within 10 feet of the product dispenser islands, the entire area between the UST field and the product dispenser islands, and within 10 feet of any suspected underground line. An 8- to 12-inch-diameter circle is cut in the surface cover at each boring location. A hole is then cleared at each boring location using a 4-inch diameter hand auger.

SOIL SAMPLING

Shallow soil samples are collected using a 6-inch long sample barrel connected to a slide hammer, containing a 6-inch long stainless steel sample liner. After driving the hammer 6 inches, the rods and sample barrel are withdrawn from the borehole and the sample liner is removed.

Soil from the hand auger is removed and placed in a sealed plastic bag. The soil is scanned with an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID) or photoionization detector (PID) and the readings are noted on the soil boring logs. The remaining soil from the hand auger is examined and classified according to the Unified Soil Classification System (USCS).

Soil samples are delivered, under chain of custody, to a laboratory certified by the California Department of Health Services (DHS) for analyses.

SOIL VAPOR MONITORING WELL INSTALLATION PROCEDURES

The soil vapor monitoring wells are constructed with 0.25-inch-diameter stainless steel tubing connected to 0.4-inch-diameter vapor sampling implant with a 6-inch-long, 0.0057-inch pore size stainless steel screen and bottom implant anchor. All connections are sealed with Swagelok® type fittings. A filter pack of 1 foot of #2/12 sand is placed at the screened interval and approximately 3 inches above and below the screen for each well. The filter pack is separated from the annular grout

seal, using 1 foot of dry granular bentonite. Hydrated granular bentonite is used to fill and seal the annular space in the borehole to near ground surface. The tubing is sealed at the surface with a stainless steel Swagelok® valve and a stainless steel cap.

The wells are finished at the surface with a slightly raised, steel traffic-rated box set in concrete. The lid on the traffic-rated box is bolted to the rim of the well box.

SOIL VAPOR SAMPLING PROCEDURES

To allow for subsurface conditions to equilibrate, the wells are not disturbed for a period of at least 48 hours.

To ensure air-tight connections between the tubing, sampling port, valves, and other connections, a vacuum tightness test is performed on each well. The test consists of the application of a vacuum and monitoring of vacuum tightness using vacuum gauges and/or flow meter for 5 to 10 minutes. A leak would be evident if the vacuum gauges registered a decrease in the vacuum or flow was recorded on the meter.

A purge test is conducted for one well to determine the purge volume for subsequent wells. The selected well should be the one with the highest expected concentrations. The test consists of the collection of soil vapor samples using Tedlar bags after purging the well of one (1), three (3), and seven (7) purge volumes by drawing vapor into the Tedlar bag using a vacuum chamber and vacuum pump. The purge volume is estimated based on the internal volume of the tubing used, the volume of the screen, and the voids in the sand pack within the annular space around the screen. The samples are collected through a particulate filter and flow controller which regulates the flow of soil vapor to no more than 200 milliliters per minute. The purge test samples are analyzed in the field using a PID. The results of the purge test are used to dictate the purge volume to be used during the sampling of subsequent wells.

The soil vapor samples are collected in 1-liter stainless steel Summa canisters. The samples are collected through a particulate filter and flow controller which regulates the flow of soil vapor to no more than 200 milliliters per minute. To ensure an air-tight connection at the well head and that ambient air does not enter the well at the well head, a tracer is applied. The tracer used is helium gas. To apply the tracer, a small shroud is placed over the well head and the tracer gas is allowed to fill the shroud at a constant rate. A hand-held helium detector is used in the field to measure the tracer within the shroud. Soil vapor is drawn into a Tedlar bag from the well using a vacuum chamber and vacuum pump. A leak would be evident if the concentration of the tracer in the well exceeds 10% of the concentration of the tracer in the shroud.

The 1-liter Summa canisters are labeled and packaged for delivery to a state-certified laboratory for chemical analysis. The initial pressure and the final vacuum readings taken from the gauges on the Summa canisters are recorded. A small vacuum of about 5 inches of mercury is left inside the sample canister and is recorded on the chain-of-custody. Upon receipt, the laboratory checks the pressure in the sample canister and compare it to the pressure recorded on the chain-of-custody for quality control purposes.

Appendix F
Field Documents



Purge Volume Test Form

Site: 04FGN	Project #: UP04FGN 6.12	Page: 1 of 1
Date: 11/26/10	Personnel: Yuko Mamiya	Purge Test Well: VW3

Purge Volume Calculation												
WELL PURGE VOLUME CALCULATION	Tubing Volume (ML)		Screen Volume (ML)		Pore Space Volume (ML)		Volume (ML)	Purge Volumes	Total Purge Volume (ML)	Flow Rate (ML/minute)	Estimated Time to Purge (Minutes)	
	23.42	+	12.35	+	810.98	=	846.75	X	1 vol.	847	200	4
								-	3 vol.	2,540	200	8
								-	7 vol.	5,927	200	21

Purge Data								Purge Cannister Volume: 6 L
Purge Volumes	Purge Canister Serial Number	Flow Regulator Serial Number	Initial Purge Canister Vacuum (Inches Hg)	Start Time	Stop Time	Final Purge Canister Vacuum (Inches Hg)	PID Reading	
1	D698	A193	-30	0946	0950	-26	131	
3	↓	↓	-26	0957	1005	-17.5	153	
7	↓	↓	-17.5	1011	1040	-2	148	

Notes: Shut-down leak test: Start 0939 - Stop 0946, ^{Vac} Readings -30' Hg.
 Weather: Sunny



SUMMA Canister Soil Vapor Sampling Form

Site: Former Mobil Station 04FGN
 Address: 14994 East 14th Street, San Leandro, CA
 Project #: UP04FGN 6.12
 Date: 11/26/10

Personnel: Yuko Mamiya
 Page: 1 of 1
 Purge Canister Volume (liters): 6
 Sample Canister Volume (liters): 1

Temperature: ~ 52 °F
 Barometric Pressure: ~ 30 inches Hg
 Precipitation: 0.00
 Relative Humidity: ~ 62 %
 Purge Volume: 3
 Flow Rate: 200 liters/minute

Sampling Location	Purge Canister Serial Number	Sample Canister Serial Number	Flow Regulator Serial Number	Leak Check 1		Initial Purge Canister Vacuum (Inches Hg)	Leak Check 2		Purge Canister Vacuum (Inches Hg)	Vapor Purge		Final Purge Canister Vacuum (Inches Hg)	Initial Sample Canister Vacuum (Inches Hg)	Vapor Sample		Final Sample Canister Vacuum (Inches Hg)
				Ambient He Concentration (ppm)	Tubing He Concentration (ppm)		Start Time	Stop Time		Start Time	Stop Time			Start Time	Stop Time	
VW1	D234	LC291A107		170,000 100,000 80,000	0	-30	1406	1413	-30	1430	1428	-17	-30	1428	1435	-4
VW2	D083	CC426A320		100,000	0	-30	1307	1309	-30	1309	1324	-17	-30	1324	1330	-4
VW3	D698	LC485A193		50,000 60,000	0	-2	1108	1113	-2	See Purge Test Form		-30	-30	1113	1118	-4
VW4	D457	CL210A315		60,000 80,000	0	-30	1226	1231	-30	1231	1249	-17	-30	1249	1255	-5
VW5	D329	A263	A263	60,000 70,000	0	-30	1131	1137	-30	1137	1154	-18	+30	1206	1213	-3
VW3 (DUP)		LC193	A193			-29	1312	1317	-29				-29	1317	1323	-2

General Weather Conditions: Sunny

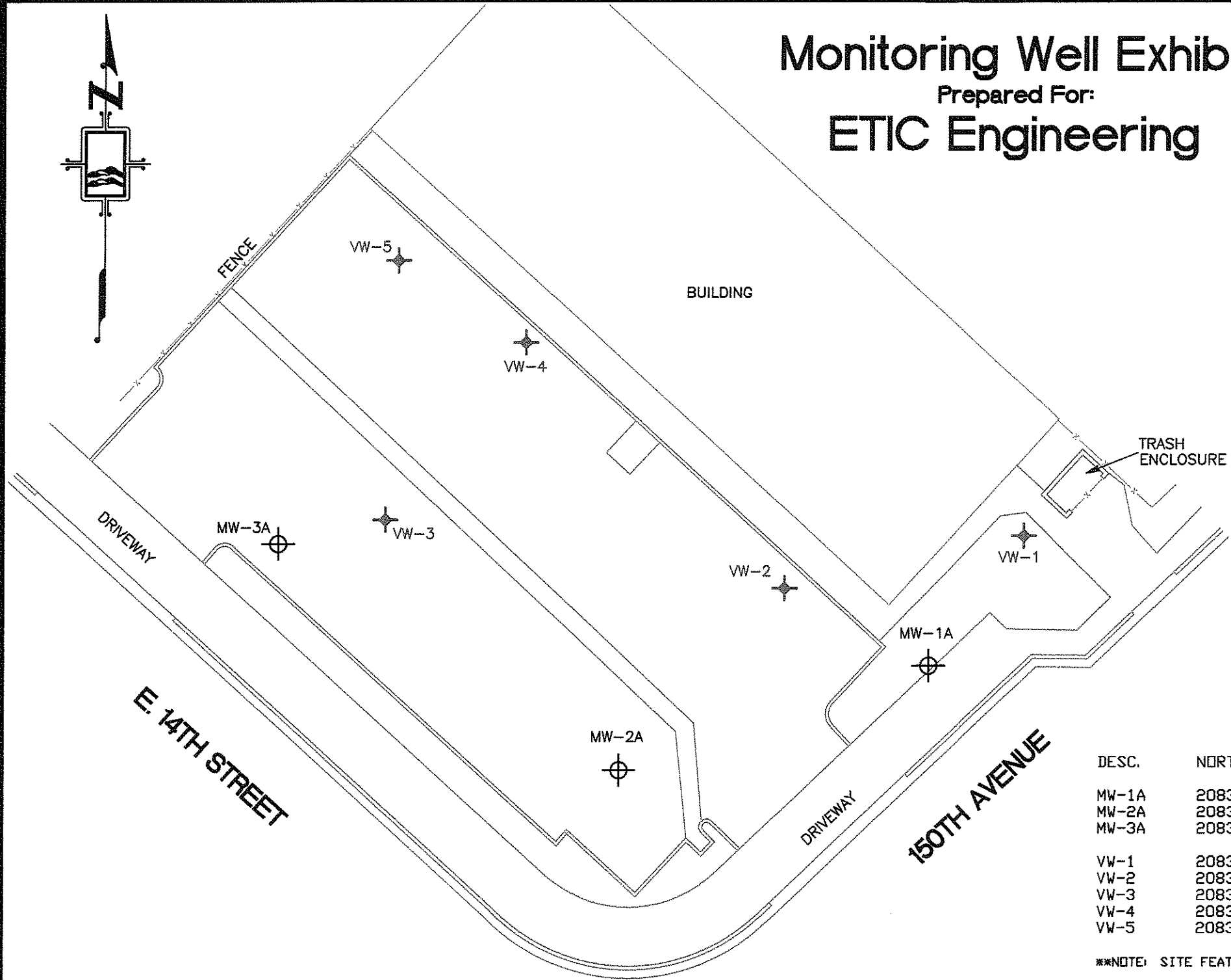
Other:

Appendix G

Survey Data

Monitoring Well Exhibit

Prepared For:
ETIC Engineering



BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3
COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL
SURVEY NETWORK.

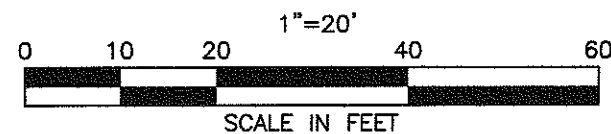
COORDINATE DATUM IS NAD 83.

REFERENCE GEOID IS GEOID03.

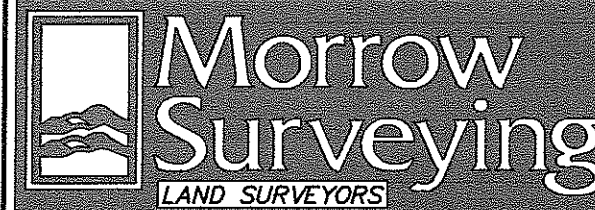
VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. BOX
MW-1A	2083659.3	6090405.7	37.7060677	-122.1291107	39.30	39.67
MW-2A	2083642.5	6090355.9	37.7060191	-122.1292815	39.52	39.88
MW-3A	2083678.8	6090301.1	37.7061162	-122.1294733	39.82	40.14
VW-1	2083680.1	6090420.9	37.7061256	-122.1290592		40.89
VW-2	2083671.7	6090382.4	37.7061006	-122.1291917		40.59
VW-3	2083682.6	6090318.3	37.7061276	-122.1294139		40.04
VW-4	2083711.1	6090340.7	37.7062067	-122.1293382		40.66
VW-5	2083724.3	6090320.3	37.7062420	-122.1294096		40.59

***NOTE: SITE FEATURES AND ALL WELLS DEPICTED ON THIS EXHIBIT WERE SURVEYED ON 12-15-10.



Former Mobile 04FGN
14994 East 14th St.
San Leandro
Alameda County
California

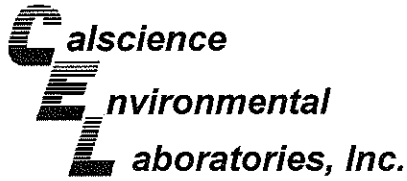


1255 Starboard Drive
West Sacramento
California 95691
(916) 372-8124
mark@morrrowsurveying.com

Date: December, 2010
Scale: 1"=20'
Field Survey: 12-15-10
Revised:
Field Book: MW-52
Dwg. No. 1893-072 MAM

Appendix H

Laboratory Analytical Reports and Chain-of-Custody Documentation



Supplemental Report 3

March 18, 2011

Additional requested analyses have been added to the original report.

Erik Appel
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Subject: **Calscience Work Order No.: 10-11-2044**
Client Reference: **ExxonMobil 04FGN**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/26/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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.

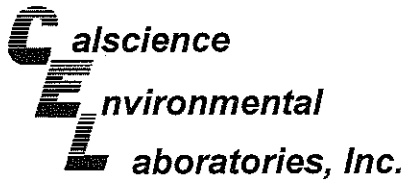
Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager





Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2@5.5-6.0	10-11-2044-6-A	11/23/10 10:33	Solid	GC 46	11/30/10	11/30/10 20:22	101130B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	105	61-145				

VW4@5.5-6.0	10-11-2044-7-A	11/23/10 14:10	Solid	GC 46	11/30/10	11/30/10 20:37	101130B15
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	96	61-145				

VW5@5.5-6.0	10-11-2044-8-A	11/24/10 08:45	Solid	GC 46	11/30/10	11/30/10 20:53	101130B15
-------------	----------------	-------------------	-------	-------	----------	-------------------	-----------

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	98	61-145				

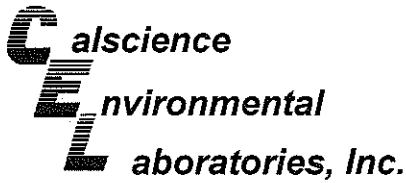
VW3@5.5-6.0	10-11-2044-9-A	11/24/10 09:53	Solid	GC 46	11/30/10	11/30/10 21:08	101130B15
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	108	61-145				

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1@5.5-6.0	10-11-2044-10-A	11/24/10 11:25	Solid	GC 46	11/30/10	11/30/10 21:23	101130B15

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

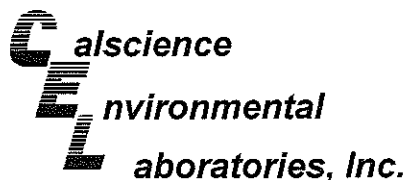
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	113	61-145				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
	099-12-275-3,778	N/A	Solid	GC 46	11/30/10	11/30/10 19:06	101130B15

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	5.0	4.8	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Decachlorobiphenyl	102	61-145				

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



Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8021B
Units: mg/kg

Project: ExxonMobil 04FGN

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2@5.5-6.0	10-11-2044-6-A	11/23/10 10:33	Solid	GC 21	11/30/10	11/30/10 18:32	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	51-129	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4@5.5-6.0	10-11-2044-7-A	11/23/10 14:10	Solid	GC 21	11/30/10	11/30/10 16:46	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	51-129	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW5@5.5-6.0	10-11-2044-8-A	11/24/10 08:45	Solid	GC 21	11/30/10	11/30/10 19:07	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	51-129	

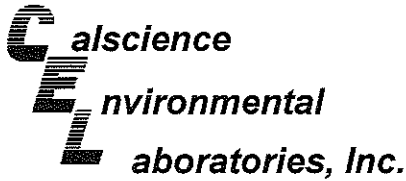
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3@5.5-6.0	10-11-2044-9-A	11/24/10 09:53	Solid	GC 21	11/30/10	11/30/10 19:43	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	51-129	

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8021B
Units: mg/kg

Project: ExxonMobil 04FGN

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1@5.5-6.0	10-11-2044-10-A	11/24/10 11:25	Solid	GC 21	11/30/10	11/30/10 20:18	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

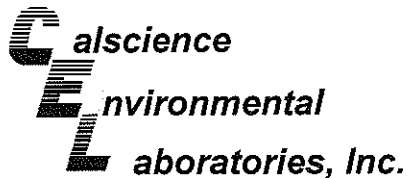
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U
Surrogates:	REC (%)	Control Limits	Qual								
1,4-Bromofluorobenzene	96	51-129									

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-657-659	N/A	Solid	GC 21	11/30/10	11/30/10 15:00	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.0012	1	U	Ethylbenzene	ND	0.0050	0.0011	1	U
Toluene	ND	0.0050	0.0012	1	U	Xylenes (total)	ND	0.010	0.0023	1	U
Surrogates:	REC (%)	Control Limits	Qual								
1,4-Bromofluorobenzene	102	51-129									

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



Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2@5.5-6.0	10-11-2044-6-A	11/23/10 10:33	Solid	GC 24	11/30/10	11/30/10 14:59	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	73	42-126				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4@5.5-6.0	10-11-2044-7-A	11/23/10 14:10	Solid	GC 24	11/30/10	11/30/10 15:33	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	72	42-126				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW5@5.5-6.0	10-11-2044-8-A	11/24/10 08:45	Solid	GC 24	11/30/10	11/30/10 16:07	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

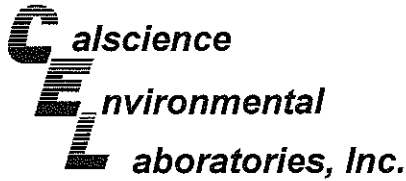
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	73	42-126				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3@5.5-6.0	10-11-2044-9-A	11/24/10 09:53	Solid	GC 24	11/30/10	11/30/10 16:41	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	72	42-126				

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1@5.5-6.0	10-11-2044-10-A	11/24/10 11:25	Solid	GC 24	11/30/10	11/30/10 17:15	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

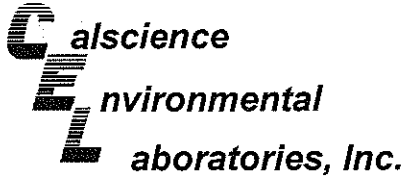
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	71	42-126				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-279-4,131	N/A	Solid	GC 24	12/30/10	11/30/10 12:37	101130B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene - FID	73	42-126				

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



Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW5@5.5-6.0	10-11-2044-8-A	11/24/10 08:45	Solid	GC/MS FF	11/26/10	11/30/10 20:37	101130L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	100	63-141				1,2-Dichloroethane-d4	110	62-146			
Toluene-d8	103	80-120				1,4-Bromofluorobenzene	102	60-132			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3@5.5-6.0	10-11-2044-9-A	11/24/10 09:53	Solid	GC/MS FF	11/26/10	11/30/10 21:05	101130L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

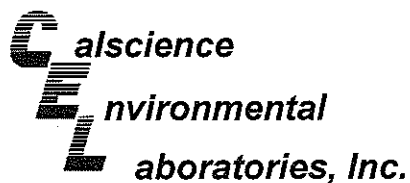
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	101	63-141				1,2-Dichloroethane-d4	112	62-146			
Toluene-d8	103	80-120				1,4-Bromofluorobenzene	101	60-132			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1@5.5-6.0	10-11-2044-10-A	11/24/10 11:25	Solid	GC/MS FF	11/26/10	11/30/10 21:32	101130L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	98	63-141				1,2-Dichloroethane-d4	111	62-146			
Toluene-d8	102	80-120				1,4-Bromofluorobenzene	102	60-132			

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

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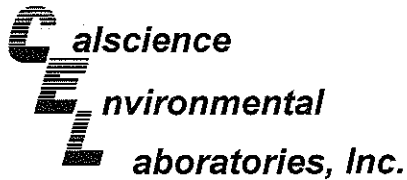
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-4,627	N/A	Solid	GC/MS FF	11/30/10	11/30/10 14:29	101130L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	63-141		1,2-Dichloroethane-d4	121	62-146	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	60-132	

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



Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

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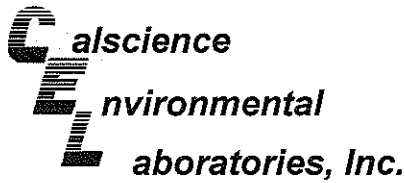
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2@5.5-6.0	10-11-2044-6-A	11/23/10 10:33	Solid	GC/MS FF	11/26/10	11/30/10 20:09	101130L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

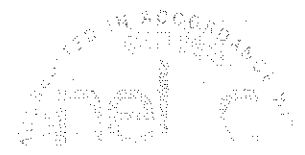
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	0.015	0.12	0.0048	1	B,J	2,2-Dichloropropane	ND	0.0050	0.00056	1	U
Bromobenzene	ND	0.0050	0.00023	1	U	1,1-Dichloropropene	ND	0.0050	0.00049	1	U
Bromochloromethane	ND	0.0050	0.00078	1	U	c-1,3-Dichloropropene	ND	0.0050	0.00069	1	U
Bromodichloromethane	ND	0.0050	0.00061	1	U	t-1,3-Dichloropropene	ND	0.0050	0.00021	1	U
Bromoform	ND	0.0050	0.00076	1	U	2-Hexanone	ND	0.050	0.0047	1	U
Bromomethane	ND	0.025	0.0033	1	U	Isopropylbenzene	ND	0.0050	0.0022	1	U
2-Butanone	0.0036	0.050	0.0032	1	J	p-Isopropyltoluene	ND	0.0050	0.00018	1	U
n-Butylbenzene	0.00047	0.0050	0.00014	1	J	Methylene Chloride	ND	0.050	0.0023	1	U
sec-Butylbenzene	0.00047	0.0050	0.00017	1	J	4-Methyl-2-Pentanone	ND	0.050	0.0015	1	U
tert-Butylbenzene	ND	0.0050	0.00087	1	U	Naphthalene	ND	0.050	0.0036	1	U
Carbon Disulfide	ND	0.050	0.0024	1	U	n-Propylbenzene	ND	0.0050	0.00017	1	U
Carbon Tetrachloride	ND	0.0050	0.0012	1	U	Styrene	ND	0.0050	0.0013	1	U
Chlorobenzene	ND	0.0050	0.00024	1	U	1,1,1,2-Tetrachloroethane	ND	0.0050	0.00024	1	U
Chloroethane	ND	0.0050	0.0026	1	U	1,1,2,2-Tetrachloroethane	ND	0.0050	0.00043	1	U
Chloroform	ND	0.0050	0.00058	1	U	Tetrachloroethene	ND	0.0050	0.00036	1	U
Chloromethane	ND	0.025	0.0030	1	U	1,2,3-Trichlorobenzene	ND	0.010	0.00033	1	U
2-Chlorotoluene	ND	0.0050	0.00020	1	U	1,2,4-Trichlorobenzene	ND	0.0050	0.00079	1	U
4-Chlorotoluene	ND	0.0050	0.00029	1	U	1,1,1-Trichloroethane	ND	0.0050	0.0013	1	U
Dibromochloromethane	ND	0.0050	0.00042	1	U	1,1,2-Trichloroethane	ND	0.0050	0.00044	1	U
1,2-Dibromo-3-Chloropropane	ND	0.010	0.0026	1	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	0.00082	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Trichloroethene	ND	0.0050	0.00048	1	U
Dibromomethane	ND	0.0050	0.0012	1	U	1,2,3-Trichloropropane	ND	0.0050	0.00061	1	U
1,2-Dichlorobenzene	ND	0.0050	0.00026	1	U	1,2,4-Trimethylbenzene	0.0011	0.0050	0.00015	1	J
1,3-Dichlorobenzene	ND	0.0050	0.00026	1	U	Trichlorofluoromethane	ND	0.050	0.00098	1	U
1,4-Dichlorobenzene	ND	0.0050	0.00021	1	U	1,3,5-Trimethylbenzene	ND	0.0050	0.0022	1	U
Dichlorodifluoromethane	ND	0.0050	0.0030	1	U	Vinyl Acetate	ND	0.050	0.011	1	U
1,1-Dichloroethane	ND	0.0050	0.00026	1	U	Vinyl Chloride	ND	0.0050	0.00095	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,1-Dichloroethene	ND	0.0050	0.00029	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
c-1,2-Dichloroethene	ND	0.0050	0.00083	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
t-1,2-Dichloroethene	ND	0.0050	0.00068	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
1,2-Dichloropropane	ND	0.0050	0.00036	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
1,3-Dichloropropane	ND	0.0050	0.00021	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	63-141		1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	102	60-132	

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

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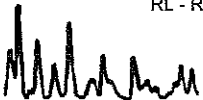
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4@5.5-6.0	10-11-2044-7-A	11/23/10 14:10	Solid	GC/MS FF	11/26/10	11/30/10 14:57	101130L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	0.12	0.0048	1	U	2,2-Dichloropropane	ND	0.0050	0.00056	1	U
Bromobenzene	ND	0.0050	0.00023	1	U	1,1-Dichloropropene	ND	0.0050	0.00049	1	U
Bromochloromethane	ND	0.0050	0.00078	1	U	c-1,3-Dichloropropene	ND	0.0050	0.00069	1	U
Bromodichloromethane	ND	0.0050	0.00061	1	U	t-1,3-Dichloropropene	ND	0.0050	0.00021	1	U
Bromoform	ND	0.0050	0.00076	1	U	2-Hexanone	ND	0.050	0.0047	1	U
Bromomethane	ND	0.025	0.0033	1	U	Isopropylbenzene	ND	0.0050	0.0022	1	U
2-Butanone	ND	0.050	0.0032	1	U	p-Isopropyltoluene	ND	0.0050	0.00018	1	U
n-Butylbenzene	ND	0.0050	0.00014	1	U	Methylene Chloride	ND	0.050	0.0023	1	U
sec-Butylbenzene	ND	0.0050	0.00017	1	U	4-Methyl-2-Pentanone	ND	0.050	0.0015	1	U
tert-Butylbenzene	ND	0.0050	0.00087	1	U	Naphthalene	ND	0.050	0.0036	1	U
Carbon Disulfide	ND	0.050	0.0024	1	U	n-Propylbenzene	ND	0.0050	0.00017	1	U
Carbon Tetrachloride	ND	0.0050	0.0012	1	U	Styrene	ND	0.0050	0.0013	1	U
Chlorobenzene	ND	0.0050	0.00024	1	U	1,1,1,2-Tetrachloroethane	ND	0.0050	0.00024	1	U
Chloroethane	ND	0.0050	0.0026	1	U	1,1,2,2-Tetrachloroethane	ND	0.0050	0.00043	1	U
Chloroform	ND	0.0050	0.00058	1	U	Tetrachloroethene	ND	0.0050	0.00036	1	U
Chloromethane	ND	0.025	0.0030	1	U	1,2,3-Trichlorobenzene	ND	0.010	0.00033	1	U
2-Chlorotoluene	ND	0.0050	0.00020	1	U	1,2,4-Trichlorobenzene	ND	0.0050	0.00079	1	U
4-Chlorotoluene	ND	0.0050	0.00029	1	U	1,1,1-Trichloroethane	ND	0.0050	0.0013	1	U
Dibromochloromethane	ND	0.0050	0.00042	1	U	1,1,2-Trichloroethane	ND	0.0050	0.00044	1	U
1,2-Dibromo-3-Chloropropane	ND	0.010	0.0026	1	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	0.00082	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Trichloroethene	ND	0.0050	0.00048	1	U
Dibromomethane	ND	0.0050	0.0012	1	U	1,2,3-Trichloropropane	ND	0.0050	0.00061	1	U
1,2-Dichlorobenzene	ND	0.0050	0.00026	1	U	1,2,4-Trimethylbenzene	0.00030	0.0050	0.00015	1	J
1,3-Dichlorobenzene	ND	0.0050	0.00026	1	U	Trichlorofluoromethane	ND	0.050	0.00098	1	U
1,4-Dichlorobenzene	ND	0.0050	0.00021	1	U	1,3,5-Trimethylbenzene	ND	0.0050	0.0022	1	U
Dichlorodifluoromethane	ND	0.0050	0.0030	1	U	Vinyl Acetate	ND	0.050	0.011	1	U
1,1-Dichloroethane	ND	0.0050	0.00026	1	U	Vinyl Chloride	ND	0.0050	0.00095	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,1-Dichloroethene	ND	0.0050	0.00029	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
c-1,2-Dichloroethene	ND	0.0050	0.00083	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
t-1,2-Dichloroethene	ND	0.0050	0.00068	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
1,2-Dichloropropane	ND	0.0050	0.00036	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
1,3-Dichloropropane	ND	0.0050	0.00021	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	63-141		1,2-Dichloroethane-d4	113	62-146	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	102	60-132	

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

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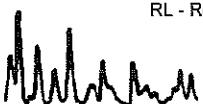
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-4,210	N/A	Solid	GC/MS FF	11/30/10	11/30/10 14:29	101130L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	0.0066	0.12	0.0048	1	J	2,2-Dichloropropane	ND	0.0050	0.00056	1	U
Bromobenzene	ND	0.0050	0.00023	1	U	1,1-Dichloropropene	ND	0.0050	0.00049	1	U
Bromochloromethane	ND	0.0050	0.00078	1	U	c-1,3-Dichloropropene	ND	0.0050	0.00069	1	U
Bromodichloromethane	ND	0.0050	0.00061	1	U	t-1,3-Dichloropropene	ND	0.0050	0.00021	1	U
Bromoform	ND	0.0050	0.00076	1	U	2-Hexanone	ND	0.050	0.0047	1	U
Bromomethane	ND	0.025	0.0033	1	U	Isopropylbenzene	ND	0.0050	0.0022	1	U
2-Butanone	ND	0.050	0.0032	1	U	p-Isopropyltoluene	ND	0.0050	0.00018	1	U
n-Butylbenzene	ND	0.0050	0.00014	1	U	Methylene Chloride	ND	0.050	0.0023	1	U
sec-Butylbenzene	ND	0.0050	0.00017	1	U	4-Methyl-2-Pentanone	ND	0.050	0.0015	1	U
tert-Butylbenzene	ND	0.0050	0.00087	1	U	Naphthalene	ND	0.050	0.0036	1	U
Carbon Disulfide	ND	0.050	0.0024	1	U	n-Propylbenzene	ND	0.0050	0.00017	1	U
Carbon Tetrachloride	ND	0.0050	0.0012	1	U	Styrene	ND	0.0050	0.0013	1	U
Chlorobenzene	ND	0.0050	0.00024	1	U	1,1,1,2-Tetrachloroethane	ND	0.0050	0.00024	1	U
Chloroethane	ND	0.0050	0.0026	1	U	1,1,2,2-Tetrachloroethane	ND	0.0050	0.00043	1	U
Chloroform	ND	0.0050	0.00058	1	U	Tetrachloroethene	ND	0.0050	0.00036	1	U
Chloromethane	ND	0.025	0.0030	1	U	1,2,3-Trichlorobenzene	ND	0.010	0.00033	1	U
2-Chlorotoluene	ND	0.0050	0.00020	1	U	1,2,4-Trichlorobenzene	ND	0.0050	0.00079	1	U
4-Chlorotoluene	ND	0.0050	0.00029	1	U	1,1,1-Trichloroethane	ND	0.0050	0.0013	1	U
Dibromochloromethane	ND	0.0050	0.00042	1	U	1,1,2-Trichloroethane	ND	0.0050	0.00044	1	U
1,2-Dibromo-3-Chloropropane	ND	0.010	0.0026	1	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	0.00082	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Trichloroethene	ND	0.0050	0.00048	1	U
Dibromomethane	ND	0.0050	0.0012	1	U	1,2,3-Trichloropropane	ND	0.0050	0.00061	1	U
1,2-Dichlorobenzene	ND	0.0050	0.00026	1	U	1,2,4-Trimethylbenzene	ND	0.0050	0.00015	1	U
1,3-Dichlorobenzene	ND	0.0050	0.00026	1	U	Trichlorofluoromethane	ND	0.050	0.00098	1	U
1,4-Dichlorobenzene	ND	0.0050	0.00021	1	U	1,3,5-Trimethylbenzene	ND	0.0050	0.0022	1	U
Dichlorodifluoromethane	ND	0.0050	0.0030	1	U	Vinyl Acetate	ND	0.050	0.011	1	U
1,1-Dichloroethane	ND	0.0050	0.00026	1	U	Vinyl Chloride	ND	0.0050	0.00095	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,1-Dichloroethene	ND	0.0050	0.00029	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
c-1,2-Dichloroethene	ND	0.0050	0.00083	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
t-1,2-Dichloroethene	ND	0.0050	0.00068	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
1,2-Dichloropropane	ND	0.0050	0.00036	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
1,3-Dichloropropane	ND	0.0050	0.00021	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	63-141		1,2-Dichloroethane-d4	121	62-146	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	60-132	

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: ExxonMobil 04FGN

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2@5.5-6.0	10-11-2044-6-A	11/23/10 10:33	Solid	ICP 5300	01/14/11	01/14/11 19:54	110114L04A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Cadmium	ND	0.500	0.0883	1	U	Nickel	38.8	0.250	0.115	1	
Chromium	26.4	0.250	0.0878	1		Zinc	31.9	1.00	0.242	1	
Lead	6.88	0.500	0.181	1	B						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4@5.5-6.0	10-11-2044-7-A	11/23/10 14:10	Solid	ICP 5300	01/14/11	01/14/11 19:55	110114L04A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

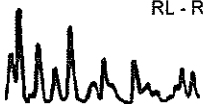
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Cadmium	ND	0.500	0.0883	1	U	Nickel	38.1	0.250	0.115	1	
Chromium	26.7	0.250	0.0878	1		Zinc	30.9	1.00	0.242	1	
Lead	6.74	0.500	0.181	1	B						

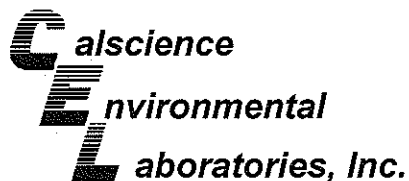
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-14,533	N/A	Solid	ICP 5300	01/14/11	01/14/11 19:31	110114L04A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Cadmium	ND	0.500	0.0883	1	U	Nickel	ND	0.250	0.115	1	U
Chromium	ND	0.250	0.0878	1	U	Zinc	ND	1.00	0.242	1	U
Lead	0.227	0.500	0.181	1	J						

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





Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

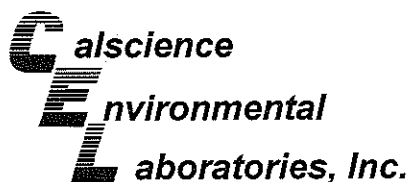
Date Received: 11/26/10
 Work Order No: 10-11-2044
 Preparation: EPA 3050B
 Method: EPA 6010B

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-01-0777-1	Solid	ICP 5300	01/01/95	01/15/11	110114S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	99	98	75-125	1	0-20	
Chromium	110	107	75-125	2	0-20	
Lead	102	100	75-125	2	0-20	
Nickel	102	97	75-125	2	0-20	
Zinc	119	124	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 3050B
Method: EPA 6010B

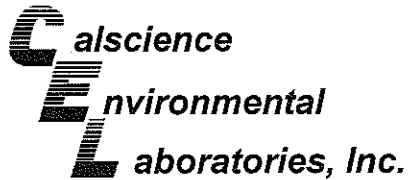
Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
11-01-0777-1	Solid	ICP 5300	01/01/95	01/15/11	110114S04

Analysis Comment: * - Analyzed 1/18/2011 1:34:00 PM

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	100	101	75-125	1	0-20	
Chromium	100	104	75-125	2	0-20	
Lead	100	100	75-125	0	0-20	
Nickel	96	100	75-125	2	0-20	
Zinc	103	104	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

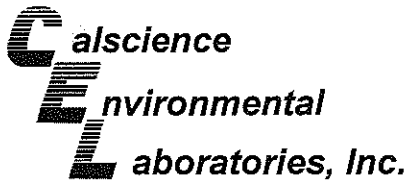
Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VW1@5.5-6.0	Solid	GC 46	11/30/10	11/30/10	101130S15

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	65	68	64-130	4	0-15	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

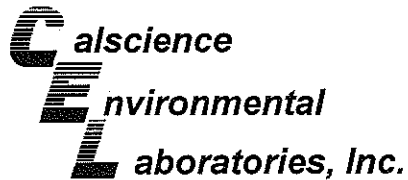
Date Received: 11/26/10
 Work Order No: 10-11-2044
 Preparation: EPA 5030C
 Method: EPA 8021B

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VW4@5.5-6.0	Solid	GC 21	11/30/10	11/30/10	101130S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	58-118	0	0-24	
Toluene	93	92	61-109	1	0-20	
Ethylbenzene	89	87	59-113	2	0-20	
Xylenes (total)	90	88	56-110	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

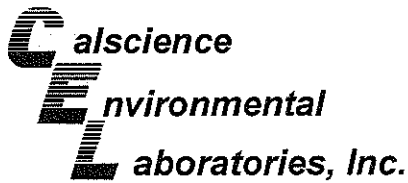
Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VW4@5.5-6.0	Solid	GC 24	12/30/10	11/30/10	101130S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	93	96	48-114	3	0-23	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

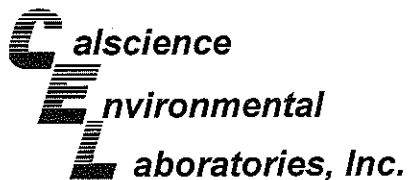
Date Received: 11/26/10
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
VW4@5.5-6.0	Solid	GC/MS FF	11/26/10	11/30/10	101130S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2-Dibromoethane	99	100	64-124	1	0-20	
1,2-Dichloroethane	116	122	80-120	5	0-20	3
Methyl-t-Butyl Ether (MTBE)	106	110	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	108	109	30-168	1	0-34	
Diisopropyl Ether (DIPE)	110	117	57-129	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	107	114	55-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	101	105	58-124	4	0-20	
Ethanol	124	119	17-167	3	0-47	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

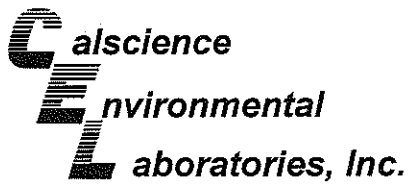
Date Received: N/A
 Work Order No: 10-11-2044
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-14,533	Solid	ICP 5300	01/14/11	01/14/11	110114L04A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	103	104	80-120	1	0-20	
Chromium	104	104	80-120	0	0-20	
Lead	108	108	80-120	0	0-20	
Nickel	107	107	80-120	0	0-20	
Zinc	104	110	80-120	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

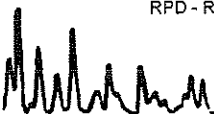
Date Received: N/A
Work Order No: 10-11-2044
Preparation: EPA 3550B
Method: EPA 8015B (M)

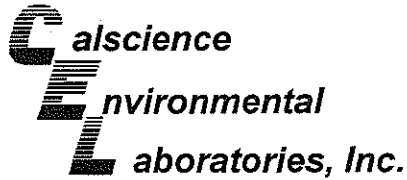
Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-3,778	Solid	GC 46	11/30/10	11/30/10	101130B15

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	96	97	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

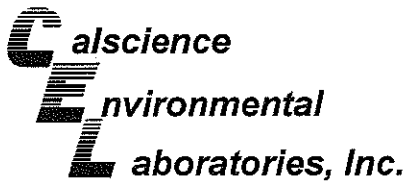
Date Received: N/A
 Work Order No: 10-11-2044
 Preparation: EPA 5030C
 Method: EPA 8021B

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-657-659	Solid	GC 21	11/30/10	11/30/10	101130B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	103	70-118	1	0-7	
Toluene	101	99	71-107	1	0-8	
Ethylbenzene	100	100	66-120	1	0-7	
Xylenes (total)	102	101	66-114	1	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

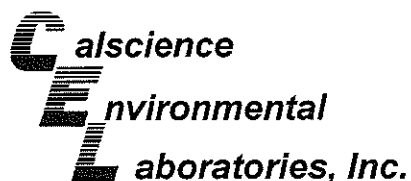
Date Received: N/A
 Work Order No: 10-11-2044
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-4,131	Solid	GC 24	12/30/10	11/30/10	101130B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	109	110	70-124	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

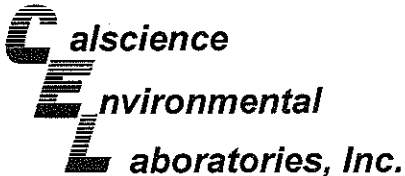
Date Received: N/A
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-4,627	Solid	GC/MS FF	11/30/10	11/30/10	101130L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2-Dibromoethane	94	96	80-120	2	0-20	
1,2-Dichloroethane	113	112	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	101	77-120	2	0-20	
Tert-Butyl Alcohol (TBA)	93	94	68-122	0	0-20	
Diisopropyl Ether (DIPE)	108	105	78-120	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	106	104	78-120	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	100	75-120	0	0-20	
Ethanol	103	97	56-140	6	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: N/A
Work Order No: 10-11-2044
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 04FGN

Table with 6 columns: Quality Control Sample ID, Matrix, Instrument, Date Prepared, Date Analyzed, LCS/LCSD Batch Number. Row 1: 099-12-796-4,210, Solid, GC/MS FF, 11/30/10, 11/30/10, 101130L01

Table with 8 columns: Parameter, LCS %REC, LCSD %REC, %REC CL, ME CL, RPD, RPD CL, Qualifiers. Lists 17 parameters including Benzene, Carbon Tetrachloride, Chlorobenzene, etc.

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

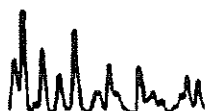
Glossary of Terms and Qualifiers



Work Order Number: 10-11-2044

<u>Qualifier</u>	<u>Definition</u>
*	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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS recovery percentage is within LCS ME control limit range.
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.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
U	Undetected at detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



Sandy Tat

From: Thomas Neely [tneely@eticeng.com]
Sent: Tuesday, March 08, 2011 11:28 AM
To: Sandy Tat
Subject: Re: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Yes. Please

Tom Neely

Thomas Neely, PG, CHG, REA II
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x32
Fax. 925-602-4720
Mobile.925-301-7125
tneely@eticeng.com
www.eticeng.com

From: Sandy Tat <STat@calscience.com>
To: Thomas Neely
Sent: Tue Mar 08 11:03:55 2011
Subject: RE: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Hi Thomas,

Yes, we can report full scan on both samples; therefore, do you want us to proceed? Thanks!

Best Regards,

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
STat@calscience.com



From: Thomas Neely [<mailto:tneely@eticeng.com>]
Sent: Monday, March 07, 2011 1:24 PM
To: Cecile de Guia

Cc: Yuko Mamiya

Subject: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Cecile,

For soil sample VW4@5.5-6.0 (CEL 10-11-2044-7-A) and soil vapor sample VW4 (CEL 10-11-2128-4-A). Would you be able to report the full VOC list (8260B or TO-15, accordingly)?

Please let me know, then I will inform you if we would like to proceed.

Thank you,

Tom

Thomas Neely, PG, CHG, REA II

ETIC Engineering, Inc.

2285 Morello Ave.

Pleasant Hill

CA 94523

Tel. 925-602-4710 x32

Fax. 925-602-4720

Mobile 925-301-7125

tneely@eticeng.com

www.eticeng.com

Cecile de Guia

From: Yuko Mamiya [ymamiya@eticeng.com]
Sent: Thursday, January 13, 2011 5:07 PM
To: Cecile de Guia
Subject: RE: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Hi Cecile,

Do you still have the soil samples VW2@5.5-6.0 and VW4@5.5-6.0 and vapor sample VW2? They were sampled on 11/23/10 (soil) and 11/26/10 (vapor)... We need to analyze the samples for the following compounds:

Soil sample VW2@5.5-6.0

- Volatile organic compounds (VOCs) including chlorinated hydrocarbons by EPA Method 8260,
- Metals (Cd, Cr, Pb, Ni, and Zn) by ICAP or AA,

Soil sample VW4@5.5-6.0

- Metals (Cd, Cr, Pb, Ni, and Zn) by ICAP or AA,

Vapor sample VW2

- Chlorinated VOCs (EPA Method 8260 or TO-15) analysis for the soil vapor samples.

Please let me know...

Yuko Mamiya

ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x 37
Fax. 925-602-4720

ymamiya@eticeng.com
www.eticeng.com



From: Jason Leary
Sent: Thursday, December 09, 2010 10:31 AM
To: Yuko Mamiya
Cc: Deborah Hensley; Aileen Galve
Subject: LAB SOIL RESULTS: 04FGN (10-11-2044)

Jason Leary

ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x 20
Fax. 925-602-4720

jleary@eticeng.com

www.eticeng.com



From: Sandy Tat [<mailto:STat@calscience.com>]
Sent: Wednesday, December 08, 2010 4:46 PM
To: ETICLabReports; Erik Appel
Cc: Bryan Campbell
Subject: ExxonMobil 04FGN / CEL 10-11-2044

Best Regards,

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
STat@calscience.com

Christmas/New Year's Holiday Schedule

Dec. 24, Friday – 08:30-17:30*

Dec. 25, Saturday – CLOSED

Dec. 27, Monday – 08:30-17:30*

Dec. 31, Friday – 08:30-17:30*

Jan. 1, Saturday – CLOSED

**Sample receiving only, business is closed.*



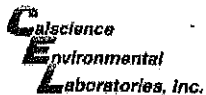
PRIVACY NOTICE:

This email (and/or the documents attached to it) is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable Federal or State law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone or else to arrange for the return of the documents.

REPORT SECURITY NOTICE:

The client or recipient of any attached analytical report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience Environmental Laboratories, Inc. is

not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience Environmental Laboratories, Inc. for any defense to any litigation which arises.



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

Site Name [REDACTED]

Provide MRN for retail or AFE for major projects

Retail Project (MRN) [REDACTED]

Major Project (AFE) [REDACTED]

Project Name Former Mobil 04FGN

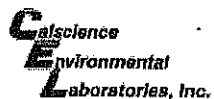
CHAIN OF CUSTODY RECORD

DATE: 11/24/10
 PAGE: 1 OF 2

ExxonMobil Engr: [REDACTED]

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering				GLOBAL ID # COELT LOG CODE: GLOBAL ID# T0600100912				P.O. 4512008383				
ADDRESS: 2285 Morello Avenue				PROJECT CONTACT: Erik Appel, ETIC Engineering, Inc.				LAB USE ONLY: 11-2044				
CITY: Pleasant Hill, CA 94523				SAMPLER(S): (SIGNATURE) 				COOLER RECEIPT Temp = _____ °C				
TEL: 925-602-4710 Ext. 21		FAX: 925-602-4720		REQUESTED ANALYSIS								
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS												
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ____/____/____				MOISTURE CONTENT BY D2216				POROSITY AND BULK DENSITY BY API RP40				
SPECIAL INSTRUCTIONS: edf file required, GLOBAL ID# T0600100912 email report to eticlabreports@eticeng.com												
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT. RIX	NO. OF CONT.					CONTAINER TYPE	
			DATE	TIME								
1	VW2050-55		11/23/10	1030	Soil	1	X	X				6" ss sleeve
2	VW7050-55		11/23/10	1407	Soil	1	X	X				6" ss sleeve
3	VW5050-55		11/24/10	0840	Soil	1	X	X				6" ss sleeve
4	VW3050-55			0950	Soil	1	X	X				6" ss sleeve
5	VW1050-55			1120	Soil	1	X	X				6" ss sleeve
Relinquished by: (Signature)				Received by: (Signature) To Dr Malley CEC				Date, & Time: 11/24/10 1500				
Relinquished by: (Signature)				Received by: (Signature)				Date, & Time: 11/26/10 0945				
Relinquished by: (Signature)				Received by: (Signature)				Date, & Time: _____				

COC\04FGN COC_soil



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

Site Name [REDACTED]

Provide MRN for retail or AFE for major projects

Retail Project (MRN) [REDACTED]

Major Project (AFE) [REDACTED]

Project Name Former Mobil 04FGN


CHAIN OF CUSTODY RECORD

DATE: 11/24/10
 PAGE: 2 OF 2

ExxonMobil Engr: [REDACTED]

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering						GLOBAL ID # COELT LOG CODE: GLOBAL ID# T0600100912						P.O. 4512008383																																																																																																																																			
ADDRESS: 2285 Morello Avenue						PROJECT CONTACT: Erik Appel, ETIC Engineering, Inc.						LAB USE ONLY 7/1 > 044																																																																																																																																			
CITY: Pleasant Hill, CA 94523						SAMPLER(S): (SIGNATURE) 						COOLER RECEIPT Temp = _____ °C																																																																																																																																			
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SPECIAL INSTRUCTIONS: edf file required, GLOBAL ID# T0600100912 email report to eticlabreports@eticeng.com * 7 Oxygenates include MTBE, TBA, TAME, ETBE, DIPE, EDB, AND 1,2-DCA.																																																																																																																																															
<table border="1"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">LOCATION/ DESCRIPTION</th> <th colspan="2">SAMPLING</th> <th rowspan="2">MAT- RIX</th> <th rowspan="2">NO. OF CONT.</th> <th rowspan="2">TPH-g/TPH-d BY 8015B(M)</th> <th rowspan="2">BTEX BY 8021B</th> <th rowspan="2">7 OXYGENATES* BY 8260B</th> <th colspan="10">CONTAINER TYPE</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th colspan="10"></th> </tr> </thead> <tbody> <tr> <td></td> <td>6</td> <td>VW2@5.5-6.0</td> <td>11/23/10</td> <td>1033</td> <td>Soil</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td colspan="10">6" ss sleeve</td> </tr> <tr> <td></td> <td>7</td> <td>VW9@5.5-6.0</td> <td>11/23/10</td> <td>1410</td> <td>Soil</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td colspan="10">6" ss sleeve</td> </tr> <tr> <td></td> <td>8</td> <td>VW5@5.5-6.0</td> <td>11/24/10</td> <td>0845</td> <td>Soil</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td colspan="10">6" ss sleeve</td> </tr> <tr> <td></td> <td>9</td> <td>VW3@5.5-6.0</td> <td></td> <td>0953</td> <td>Soil</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td colspan="10">6" ss sleeve</td> </tr> <tr> <td></td> <td>10</td> <td>VW10@5.5-6.0</td> <td></td> <td>1125</td> <td>Soil</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> <td colspan="10">6" ss sleeve</td> </tr> </tbody> </table>												LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	TPH-g/TPH-d BY 8015B(M)	BTEX BY 8021B	7 OXYGENATES* BY 8260B	CONTAINER TYPE										DATE	TIME												6	VW2@5.5-6.0	11/23/10	1033	Soil	1	X	X	X	6" ss sleeve											7	VW9@5.5-6.0	11/23/10	1410	Soil	1	X	X	X	6" ss sleeve											8	VW5@5.5-6.0	11/24/10	0845	Soil	1	X	X	X	6" ss sleeve											9	VW3@5.5-6.0		0953	Soil	1	X	X	X	6" ss sleeve											10	VW10@5.5-6.0		1125	Soil	1	X	X	X	6" ss sleeve									
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Relinquished by: (Signature)						Received by: (Signature)						Date, & Time: <u>11/26/10 0945</u>																																																																																																																																			
Relinquished by: (Signature)						Received by: (Signature)						Date, & Time: _____																																																																																																																																			

2044

	<p>< WebShip > > > ></p> <p>800-322-5555 www.gso.com</p>
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<p>Ship From: ALAN KEMP CAL SCIENCE- CONCORD 5063 COMMERCIAL CIRCLE #H CONCORD, CA 94520</p> <p>Ship To: SAMPLE RECEIVING CEL 7440 LINCOLN WAY GARDEN GROVE, CA 92841</p> <p>COD: \$0.00</p> <p>Reference: PREMIER ENV, ETIC, CRA</p> <p>Delivery Instructions:</p> <p>Signature Type: SIGNATURE REQUIRED</p>	<p>Tracking #: 515432186</p> <p style="text-align: right; font-size: 2em;">NPS</p> <div style="border: 2px solid black; padding: 10px; text-align: center;"> <p style="font-size: 3em; margin: 0;">ORC</p> <p style="font-size: 3em; margin: 0;">D</p> </div> <p style="font-size: 1.5em; margin-top: 10px;">GARDEN GROVE</p> <hr/> <p style="font-size: 2em; margin-top: 10px;">D92843A</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <input checked="" type="checkbox"/> C1 86621189 </div> <p style="margin-top: 5px;">86621189</p>
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Print Date : 11/24/10 15:44 PM

Package 1 of 1

Send Label To Printer	<input checked="" type="checkbox"/> Print All	Edit Shipment	Finish
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LABEL INSTRUCTIONS:

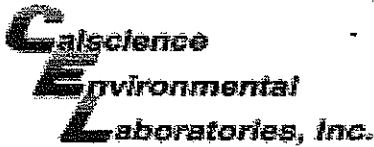
- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email	Create Return Label
----------------------	---------------------

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-11-2074

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC

DATE: 11/26/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 0.5 °C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: YL

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: YL

Sample _____ No (Not Intact) Not Present Initial: YL

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (S) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

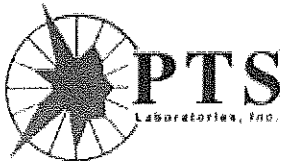
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** YL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ zanna: ZnAc₂+NaOH f: Field-filtered **Scanned by:** [Signature]



8100 Secura Way • Santa Fe Springs, CA 90870
Telephone (562) 347-2500 • Fax (562) 907-3610

December 22, 2010

Cecile de Guia
Calscience
7440 Lincoln Way
Garden Grove, CA 92841-1427

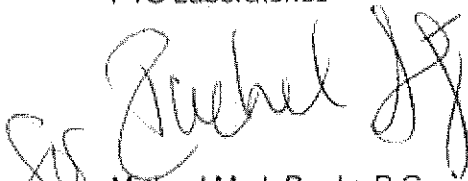
Re: PTS File No: 40878
Physical Properties Data
10-11-2044

Dear Ms. de Guia:

Please find enclosed report for Physical Properties analyses conducted upon cores received from your 10-11-2044 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give Rachel Spitz a call at (562) 347-2504.

Sincerely,
PTS Laboratories


Michael Mark Brady, P.G.
District Manager

Encl.

Project Name: N/A
 Project Number: 10-11-2044

PTS File No: 40878
 Client: Calscience

TEST PROGRAM

CORE ID	Depth ft.	Core Recovery ft.	Moisture Content ASTM D2216	Dry Bulk Density API RP 40	Total/Air/Water Porosity API RP 40		Notes
		Plugs:	Vert. 1"	Vert. 1"	Vert. 1"		
Date Received: 11/29/10							
VW2 @ 5.0-5.5	5.0-5.5	0.50	X	X	X		
VW4 @ 5.0-5.5	5.0-5.5	0.50	X	X	X		
VW5 @ 5.0-5.5	5.0-5.5	0.50	X	X	X		
VW3 @ 5.0-5.5	5.0-5.5	0.50	X	X	X		
VW1 @ 5.0-5.5	5.0-5.5	0.50	X	X	X		
TOTALS:	5 cores	2.5	5	5	5		

Laboratory Test Program Notes

Water-Filled Porosity: Includes Air-Filled and Total Porosity.

PTS File No: 40878
 Client: Calscience

PHYSICAL PROPERTIES DATA

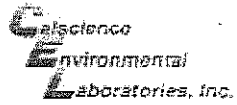
PROJECT NAME: N/A
 PROJECT NO: 10-11-2044

SAMPLE ID.	DEPTH, ft.	METHODS: SAMPLE ORIENTATION (1)	API RP 40 /	API RP 40	API RP 40		
			ASTM D2216	MOISTURE CONTENT, % weight	BULK DENSITY, g/cc	POROSITY, %V _b (2)	
					TOTAL	AIR FILLED	WATER FILLED
VW2 @ 5.0-5.5	5.0-5.5	V	15.1	1.88	29.1	0.8	28.3
VW4 @ 5.0-5.5	5.0-5.5	V	20.1	1.69	36.1	2.2	33.9
VW5 @ 5.0-5.5	5.0-5.5	V	17.0	1.74	33.9	4.3	29.6
VW3 @ 5.0-5.5	5.0-5.5	V	18.3	1.75	33.7	1.7	32.1
VW1 @ 5.0-5.5	5.0-5.5	V	17.0	1.80	31.7	1.1	30.6

(1) Sample Orientation: H = horizontal; V = vertical

(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids

V_b = Bulk Volume, cc



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

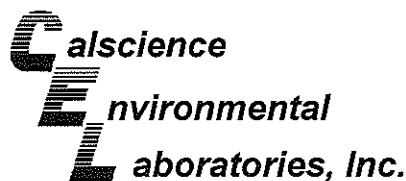
TO: **PTS - SFS**

11/29/10

CHAIN OF CUSTODY RECORD

DATE: 11/29/10
 PAGE: 1 OF 1

LABORATORY CLIENT CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.				COLLECTOR NAME / NUMBER 10-11-2044				PROJECT NUMBER					
ADDRESS 7440 LINCOLN WAY				PROJECT CONTACT Cecile de Guia				LAB USE ONLY <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8					
GARDEN GROVE, CA 92841-1427				SAMPLERS (PRINT NAME)				COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT Temp = 33°F			
TEL 714-895-5494		FAX		EMAIL cdeguia@calscience.com									
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD				REQUESTED ANALYSIS									
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> COELT EDF <input type="checkbox"/>				ASTM D2216 % Moisture Porosity and Bulk Density by API PP-40									
SPECIAL INSTRUCTIONS													
LAB USE ONLY	SAMPLE ID	SAMPLING		MAT. RX	CO. OF CONT.							CONTAINER TYPE	
		DATE	TIME										
	VW2@5.0-5.5	11/23/10	1030	Soil	1	X	X						6" ss sieve
	VW4@5.0-5.5	11/23/10	1407	Soil	1	X	X						6" ss sieve
	VW5@5.0-5.5	11/24/10	0840	Soil	1	X	X						6" ss sieve
	VW3@5.0-5.5	11/24/10	0950	Soil	1	X	X						6" ss sieve
	VW1@5.0-5.5	11/24/10	1120	Soil	1	X	X						6" ss sieve
Relinquished by (Signature): <i>[Signature]</i> (CALSCIENCE)				Received by (Signature / Affiliation): <i>[Signature]</i> PTS - SFS				Date: 11/29/10		Time: 13:45			
Relinquished by (Signature):				Received by (Signature / Affiliation):				Date:		Time:			
Relinquished by (Signature):				Received by (Signature / Affiliation):				Date:		Time:			



Supplemental Report 2

March 18, 2011

Additional requested analyses have been added to the original report.

Erik Appel
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Subject: **Calscience Work Order No.: 10-11-2128**
Client Reference: **ExxonMobil 04FGN**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/30/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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,

A handwritten signature in cursive script that reads "Cecile deGuia".

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

A handwritten signature in cursive script, likely belonging to the Project Manager, Cecile deGuia.

Case Narrative

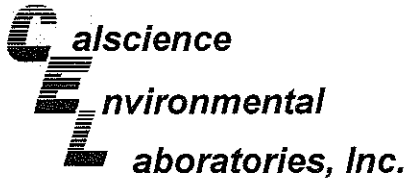
Work Order # 10-11-2128

Modified EPA TO-14A or EPA TO-15

EPA Methods TO-14A and TO-15 describe gas chromatographic procedures that will allow for that separation of volatile organic compounds and their qualitative and quantitative analysis by mass spectrometry (GC/MS). A known volume of sample is directed from the container (Summa® canister or Tedlar™ bag) through a solid multi-module (glass beads, tenex, cryofocuser) concentrator. Following concentration, the VOCs are thermally desorbed onto a gas chromatographic column for separation and then detected on a mass selective detector.

Comparison of EPA TO-14A/TO-15 versus Calscience EPA TO-14A/TO-15 (Modified)

Requirement	EPA Method	Calscience Modifications
BFB Acceptance Criteria	CLP Protocol	SW846 Protocol
Initial Calibration	Allowable % RSD for each Target Analyte \leq 30%, two analytes allowed \leq 40%	Allowable % RSD for each Target Analyte \leq 30%, 10% of analytes allowed \leq 40%
Initial Calibration Verification (ICV) - Second Source Standard (LCS)	Not Mentioned	Analytes contained in the LCS standard evaluated against historical control limits for the LCS
Daily Calibration Verification (CCV)	Allowable % Difference for each Target Analyte is \leq 30%	Full List Analysis: Allowable % Difference for each CCC analyte is \leq 30%
		Target List Analysis: Allowable % Difference for each target analytes is \leq 30%
Daily Calibration Verification (CCV) - Internal Standard Area Response	Allowable +/- 40% (Range: 60% to 140%)	Allowable +/- 50% (Range: 50% to 150%)
Method Blank, Laboratory Control Sample and Sample - Internal Standard Area Response	Allowable +/- 40% of the mean area response of most recent Initial Calibration (Range: 60% to 140%)	Allowable +/- 50% of the mean area response of the most recent Calibration Verification (Range: 50% to 150%)
Surrogates	Not Mentioned	1,4-Bromofluorobenzene, 1,2-Dichloroethane-d4 and Toluene-d8 - % Recoveries based upon historical control limits +/-3S



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: ASTM D-1946
Units: %v

Project: ExxonMobil 04FGN

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1	10-11-2128-1-A	11/26/10 14:35	Air	GC 36	N/A	11/30/10 17:52	101130L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.645	1.29	U	Oxygen + Argon	12.7	0.645	1.29	
Carbon Dioxide	4.71	0.645	1.29						

VW2	10-11-2128-2-A	11/26/10 13:30	Air	GC 36	N/A	11/30/10 18:11	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.670	1.34	U	Oxygen + Argon	2.12	0.670	1.34	
Carbon Dioxide	11.2	0.670	1.34						

VW3	10-11-2128-3-A	11/26/10 11:18	Air	GC 36	N/A	11/30/10 18:33	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.755	1.51	U	Oxygen + Argon	2.13	0.755	1.51	
Carbon Dioxide	10.7	0.755	1.51						

VW4	10-11-2128-4-A	11/26/10 12:55	Air	GC 36	N/A	11/30/10 18:50	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.760	1.52	U	Oxygen + Argon	4.26	0.760	1.52	
Carbon Dioxide	9.77	0.760	1.52						

VW5	10-11-2128-5-A	11/26/10 12:13	Air	GC 36	N/A	11/30/10 19:12	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.660	1.32	U	Oxygen + Argon	11.8	0.660	1.32	
Carbon Dioxide	9.95	0.660	1.32						

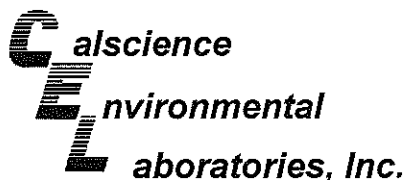
VW3 (DUP)	10-11-2128-6-A	11/26/10 13:23	Air	GC 36	N/A	11/30/10 19:30	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.710	1.42	U	Oxygen + Argon	2.21	0.710	1.42	
Carbon Dioxide	10.9	0.710	1.42						

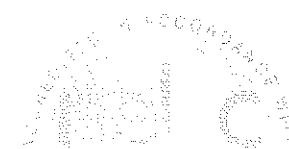
Method Blank	099-03-002-1,187	N/A	Air	GC 36	N/A	11/30/10 09:09	101130L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Methane	ND	0.500	1	U	Oxygen + Argon	ND	0.500	1	U
Carbon Dioxide	ND	0.500	1	U					

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-3M

Project: ExxonMobil 04FGN

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1	10-11-2128-1-A	11/26/10 14:35	Air	GC 13	N/A	11/30/10 17:50	101130L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	9000	1.29	U	ug/m3

VW2	10-11-2128-2-A	11/26/10 13:30	Air	GC 13	N/A	11/30/10 18:03	101130L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	580000	9400	1.34		ug/m3

VW3	10-11-2128-3-A	11/26/10 11:18	Air	GC 13	N/A	11/30/10 18:18	101130L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1400000	11000	1.51		ug/m3

VW4	10-11-2128-4-A	11/26/10 12:55	Air	GC 13	N/A	11/30/10 18:35	101130L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	15000	11000	1.52		ug/m3

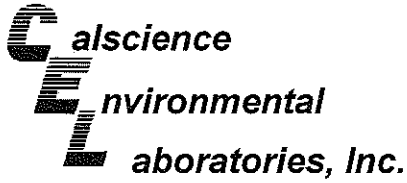
VW5	10-11-2128-5-A	11/26/10 12:13	Air	GC 13	N/A	11/30/10 18:44	101130L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	9200	1.32	U	ug/m3

VW3 (DUP)	10-11-2128-6-A	11/26/10 13:23	Air	GC 13	N/A	11/30/10 18:58	101130L01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1500000	9900	1.42		ug/m3

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-3M

Project: ExxonMobil 04FGN

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	098-01-005-2,770	N/A	Air	GC 13	N/A	11/30/10 09:04	101130L01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	7000	1	U	ug/m3

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

Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: ExxonMobil 04FGN

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW1	10-11-2128-1-A	11/26/10 14:35	Air	GC/MS YY	N/A	12/02/10 01:20	101201L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	18	2.2	1.37		Methyl-t-Butyl Ether (MTBE)	ND	9.9	1.37	U
Diisopropyl Ether (DIPE)	ND	11	1.37	U	Xylenes (total)	18	12	1.37	
1,2-Dibromoethane	ND	5.3	1.37	U	Tert-Amyl-Methyl Ether (TAME)	ND	11	1.37	U
1,2-Dichloroethane	ND	2.8	1.37	U	Tert-Butyl Alcohol (TBA)	ND	8.3	1.37	U
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.37	U	Toluene	18	2.6	1.37	
Ethylbenzene	5.7	3.0	1.37						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3	10-11-2128-3-A	11/26/10 11:18	Air	GC/MS YY	N/A	12/05/10 05:24	101204L01

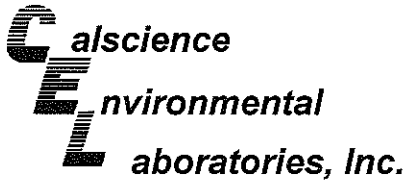
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	39	24.2	U	Methyl-t-Butyl Ether (MTBE)	ND	170	24.2	U
Diisopropyl Ether (DIPE)	ND	200	24.2	U	Xylenes (total)	230	210	24.2	
1,2-Dibromoethane	ND	93	24.2	U	Tert-Amyl-Methyl Ether (TAME)	ND	200	24.2	U
1,2-Dichloroethane	ND	49	24.2	U	Tert-Butyl Alcohol (TBA)	ND	150	24.2	U
Ethyl-t-Butyl Ether (ETBE)	ND	200	24.2	U	Toluene	ND	46	24.2	U
Ethylbenzene	ND	53	24.2	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	131	57-129	2		1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	49	78-156	2						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW5	10-11-2128-5-A	11/26/10 12:13	Air	GC/MS YY	N/A	12/05/10 08:42	101204L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	9.5	2.2	1.37		Methyl-t-Butyl Ether (MTBE)	ND	9.9	1.37	U
Diisopropyl Ether (DIPE)	ND	11	1.37	U	Xylenes (total)	ND	12	1.37	U
1,2-Dibromoethane	ND	5.3	1.37	U	Tert-Amyl-Methyl Ether (TAME)	ND	11	1.37	U
1,2-Dichloroethane	ND	2.8	1.37	U	Tert-Butyl Alcohol (TBA)	ND	8.3	1.37	U
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.37	U	Toluene	5.4	2.6	1.37	
Ethylbenzene	ND	3.0	1.37	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	93	47-137		
Toluene-d8	99	78-156							

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





Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: ExxonMobil 04FGN

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3 (DUP)	10-11-2128-6-A	11/26/10 13:23	Air	GC/MS YY	N/A	12/05/10 06:08	101204L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	36	22.7	U	Methyl-t-Butyl Ether (MTBE)	ND	160	22.7	U
Diisopropyl Ether (DIPE)	ND	190	22.7	U	Xylenes (total)	220	200	22.7	
1,2-Dibromoethane	ND	87	22.7	U	Tert-Amyl-Methyl Ether (TAME)	ND	190	22.7	U
1,2-Dichloroethane	ND	46	22.7	U	Tert-Butyl Alcohol (TBA)	ND	140	22.7	U
Ethyl-t-Butyl Ether (ETBE)	ND	190	22.7	U	Toluene	ND	43	22.7	U
Ethylbenzene	ND	49	22.7	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	117	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	46	78-156	2						

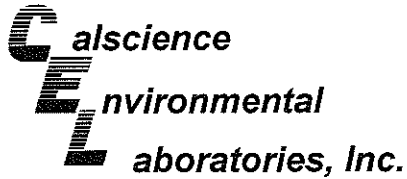
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-8,864	N/A	Air	GC/MS YY	N/A	12/01/10 18:43	101201L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1	U	Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	U
Diisopropyl Ether (DIPE)	ND	8.4	1	U	Xylenes (total)	ND	8.7	1	U
1,2-Dibromoethane	ND	3.8	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	U
1,2-Dichloroethane	ND	2.0	1	U	Tert-Butyl Alcohol (TBA)	ND	6.1	1	U
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	U	Toluene	ND	1.9	1	U
Ethylbenzene	ND	2.2	1	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-8,869	N/A	Air	GC/MS YY	N/A	12/04/10 11:35	101204L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1	U	Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	U
Diisopropyl Ether (DIPE)	ND	8.4	1	U	Xylenes (total)	ND	8.7	1	U
1,2-Dibromoethane	ND	3.8	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	U
1,2-Dichloroethane	ND	2.0	1	U	Tert-Butyl Alcohol (TBA)	ND	6.1	1	U
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	U	Toluene	ND	1.9	1	U
Ethylbenzene	ND	2.2	1	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	99	47-137		
Toluene-d8	99	78-156							

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: ExxonMobil 04FGN

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2	10-11-2128-2-A	11/26/10 13:30	Air	GC/MS YY	N/A	12/02/10 02:06	101201L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	120	16	3.35		t-1,2-Dichloroethene	ND	6.6	3.35	U
Benzene	120	5.4	3.35		t-1,3-Dichloropropene	ND	15	3.35	U
Benzyl Chloride	ND	26	3.35	U	Ethyl-t-Butyl Ether (ETBE)	ND	28	3.35	U
Bromodichloromethane	ND	11	3.35	U	Ethylbenzene	140	7.3	3.35	
Bromoform	ND	17	3.35	U	4-Ethyltoluene	25	8.2	3.35	
Bromomethane	ND	6.5	3.35	U	Hexachloro-1,3-Butadiene	ND	54	3.35	U
2-Butanone	40	15	3.35		2-Hexanone	ND	21	3.35	U
Carbon Disulfide	ND	21	3.35	U	Methyl-t-Butyl Ether (MTBE)	ND	24	3.35	U
Carbon Tetrachloride	ND	11	3.35	U	Methylene Chloride	ND	58	3.35	U
Chlorobenzene	ND	7.7	3.35	U	4-Methyl-2-Pentanone	ND	21	3.35	U
Chloroethane	ND	4.4	3.35	U	Xylenes (total)	330	29	3.35	
Chloroform	ND	8.2	3.35	U	Styrene	ND	21	3.35	U
Chloromethane	ND	3.5	3.35	U	Tert-Amyl-Methyl Ether (TAME)	ND	28	3.35	U
Dibromochloromethane	ND	14	3.35	U	Tert-Butyl Alcohol (TBA)	58	20	3.35	
Dichlorodifluoromethane	ND	8.3	3.35	U	Tetrachloroethene	39	11	3.35	
Diisopropyl Ether (DIPE)	ND	28	3.35	U	Toluene	41	6.3	3.35	
1,1-Dichloroethane	ND	6.8	3.35	U	Trichloroethene	ND	9.0	3.35	U
1,1-Dichloroethene	ND	6.6	3.35	U	Trichlorofluoromethane	ND	19	3.35	U
1,2-Dibromoethane	ND	13	3.35	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	39	3.35	U
Dichlorotetrafluoroethane	ND	47	3.35	U	1,1,1-Trichloroethane	ND	9.1	3.35	U
1,2-Dichlorobenzene	ND	10	3.35	U	1,1,2-Trichloroethane	ND	9.1	3.35	U
1,2-Dichloroethane	ND	6.8	3.35	U	1,3,5-Trimethylbenzene	240	8.2	3.35	
1,2-Dichloropropane	ND	7.7	3.35	U	1,1,2,2-Tetrachloroethane	ND	23	3.35	U
1,3-Dichlorobenzene	ND	10	3.35	U	1,2,4-Trimethylbenzene	78	25	3.35	
1,4-Dichlorobenzene	ND	10	3.35	U	1,2,4-Trichlorobenzene	ND	50	3.35	U
c-1,3-Dichloropropene	ND	7.6	3.35	U	Vinyl Acetate	ND	24	3.35	U
c-1,2-Dichloroethene	ND	6.6	3.35	U	Vinyl Chloride	ND	4.3	3.35	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	192	57-129	2		1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	31	78-156	2						

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

Analytical Report



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
 Work Order No: 10-11-2128
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

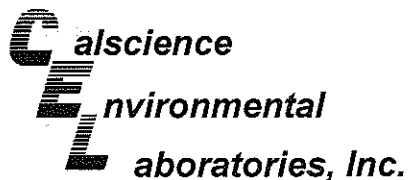
Project: ExxonMobil 04FGN

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4	10-11-2128-4-A	11/26/10 12:55	Air	GC/MS YY	N/A	12/05/10 07:47	101204L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	20	7.2	1.52		t-1,2-Dichloroethene	ND	3.0	1.52	U
Benzene	32	2.4	1.52		t-1,3-Dichloropropene	ND	6.9	1.52	U
Benzyl Chloride	ND	12	1.52	U	Ethyl-t-Butyl Ether (ETBE)	ND	13	1.52	U
Bromodichloromethane	ND	5.1	1.52	U	Ethylbenzene	4.2	3.3	1.52	
Bromoform	ND	7.9	1.52	U	4-Ethyltoluene	ND	3.7	1.52	U
Bromomethane	ND	3.0	1.52	U	Hexachloro-1,3-Butadiene	ND	24	1.52	U
2-Butanone	ND	6.7	1.52	U	2-Hexanone	ND	9.3	1.52	U
Carbon Disulfide	ND	9.5	1.52	U	Methyl-t-Butyl Ether (MTBE)	ND	11	1.52	U
Carbon Tetrachloride	ND	4.8	1.52	U	Methylene Chloride	ND	26	1.52	U
Chlorobenzene	ND	3.5	1.52	U	4-Methyl-2-Pentanone	ND	9.3	1.52	U
Chloroethane	ND	2.0	1.52	U	Xylenes (total)	ND	13	1.52	U
Chloroform	7.4	3.7	1.52		Styrene	ND	9.7	1.52	U
Chloromethane	ND	1.6	1.52	U	Tert-Amyl-Methyl Ether (TAME)	ND	13	1.52	U
Dibromochloromethane	ND	6.5	1.52	U	Tert-Butyl Alcohol (TBA)	ND	9.2	1.52	U
Dichlorodifluoromethane	ND	3.8	1.52	U	Tetrachloroethene	15	5.2	1.52	
Diisopropyl Ether (DIPE)	ND	13	1.52	U	Toluene	11	2.9	1.52	
1,1-Dichloroethane	ND	3.1	1.52	U	Trichloroethene	ND	4.1	1.52	U
1,1-Dichloroethene	ND	3.0	1.52	U	Trichlorofluoromethane	ND	8.5	1.52	U
1,2-Dibromoethane	ND	5.8	1.52	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	17	1.52	U
Dichlorotetrafluoroethane	ND	21	1.52	U	1,1,1-Trichloroethane	ND	4.1	1.52	U
1,2-Dichlorobenzene	ND	4.6	1.52	U	1,1,2-Trichloroethane	ND	4.1	1.52	U
1,2-Dichloroethane	ND	3.1	1.52	U	1,3,5-Trimethylbenzene	ND	3.7	1.52	U
1,2-Dichloropropane	ND	3.5	1.52	U	1,1,2,2-Tetrachloroethane	ND	10	1.52	U
1,3-Dichlorobenzene	ND	4.6	1.52	U	1,2,4-Trimethylbenzene	ND	11	1.52	U
1,4-Dichlorobenzene	ND	4.6	1.52	U	1,2,4-Trichlorobenzene	ND	23	1.52	U
c-1,3-Dichloropropene	ND	3.4	1.52	U	Vinyl Acetate	ND	11	1.52	U
c-1,2-Dichloroethene	ND	3.0	1.52	U	Vinyl Chloride	ND	1.9	1.52	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	96	78-156							

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: ExxonMobil 04FGN

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-8,864	N/A	Air	GC/MS YY	N/A	12/01/10 18:43	101201L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4.8	1	U	t-1,2-Dichloroethene	ND	2.0	1	U
Benzene	ND	1.6	1	U	t-1,3-Dichloropropene	ND	4.5	1	U
Benzyl Chloride	ND	7.8	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	U
Bromodichloromethane	ND	3.4	1	U	Ethylbenzene	ND	2.2	1	U
Bromoform	ND	5.2	1	U	4-Ethyltoluene	ND	2.5	1	U
Bromomethane	ND	1.9	1	U	Hexachloro-1,3-Butadiene	ND	16	1	U
2-Butanone	ND	4.4	1	U	2-Hexanone	ND	6.1	1	U
Carbon Disulfide	ND	6.2	1	U	Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	U
Carbon Tetrachloride	ND	3.1	1	U	Methylene Chloride	ND	17	1	U
Chlorobenzene	ND	2.3	1	U	4-Methyl-2-Pentanone	ND	6.1	1	U
Chloroethane	ND	1.3	1	U	Xylenes (total)	ND	8.7	1	U
Chloroform	ND	2.4	1	U	Styrene	ND	6.4	1	U
Chloromethane	ND	1.0	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	U
Dibromochloromethane	ND	4.3	1	U	Tert-Butyl Alcohol (TBA)	ND	6.1	1	U
Dichlorodifluoromethane	ND	2.5	1	U	Tetrachloroethene	ND	3.4	1	U
Diisopropyl Ether (DIPE)	ND	8.4	1	U	Toluene	ND	1.9	1	U
1,1-Dichloroethane	ND	2.0	1	U	Trichloroethene	ND	2.7	1	U
1,1-Dichloroethene	ND	2.0	1	U	Trichlorofluoromethane	ND	5.6	1	U
1,2-Dibromoethane	ND	3.8	1	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	U
Dichlorotetrafluoroethane	ND	14	1	U	1,1,1-Trichloroethane	ND	2.7	1	U
1,2-Dichlorobenzene	ND	3.0	1	U	1,1,2-Trichloroethane	ND	2.7	1	U
1,2-Dichloroethane	ND	2.0	1	U	1,3,5-Trimethylbenzene	ND	2.5	1	U
1,2-Dichloropropane	ND	2.3	1	U	1,1,2,2-Tetrachloroethane	ND	6.9	1	U
1,3-Dichlorobenzene	ND	3.0	1	U	1,2,4-Trimethylbenzene	ND	7.4	1	U
1,4-Dichlorobenzene	ND	3.0	1	U	1,2,4-Trichlorobenzene	ND	15	1	U
c-1,3-Dichloropropene	ND	2.3	1	U	Vinyl Acetate	ND	7.0	1	U
c-1,2-Dichloroethene	ND	2.0	1	U	Vinyl Chloride	ND	1.3	1	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	101	47-137		
Toluene-d8	98	78-156							

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

Analytical Report



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

Date Received: 11/30/10
 Work Order No: 10-11-2128
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

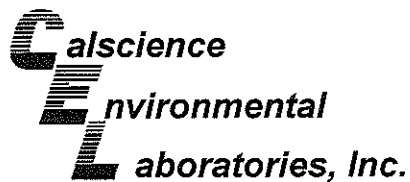
Project: ExxonMobil 04FGN

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-8,869	N/A	Air	GC/MS YY	N/A	12/04/10 11:35	101204L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	4.8	1	U	t-1,2-Dichloroethene	ND	2.0	1	U
Benzene	ND	1.6	1	U	t-1,3-Dichloropropene	ND	4.5	1	U
Benzyl Chloride	ND	7.8	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1	U
Bromodichloromethane	ND	3.4	1	U	Ethylbenzene	ND	2.2	1	U
Bromoform	ND	5.2	1	U	4-Ethyltoluene	ND	2.5	1	U
Bromomethane	ND	1.9	1	U	Hexachloro-1,3-Butadiene	ND	16	1	U
2-Butanone	ND	4.4	1	U	2-Hexanone	ND	6.1	1	U
Carbon Disulfide	ND	6.2	1	U	Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	U
Carbon Tetrachloride	ND	3.1	1	U	Methylene Chloride	ND	17	1	U
Chlorobenzene	ND	2.3	1	U	4-Methyl-2-Pentanone	ND	6.1	1	U
Chloroethane	ND	1.3	1	U	Xylenes (total)	ND	8.7	1	U
Chloroform	ND	2.4	1	U	Styrene	ND	6.4	1	U
Chloromethane	ND	1.0	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1	U
Dibromochloromethane	ND	4.3	1	U	Tert-Butyl Alcohol (TBA)	ND	6.1	1	U
Dichlorodifluoromethane	ND	2.5	1	U	Tetrachloroethene	ND	3.4	1	U
Diisopropyl Ether (DIPE)	ND	8.4	1	U	Toluene	ND	1.9	1	U
1,1-Dichloroethane	ND	2.0	1	U	Trichloroethene	ND	2.7	1	U
1,1-Dichloroethene	ND	2.0	1	U	Trichlorofluoromethane	ND	5.6	1	U
1,2-Dibromoethane	ND	3.8	1	U	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1	U
Dichlorotetrafluoroethane	ND	14	1	U	1,1,1-Trichloroethane	ND	2.7	1	U
1,2-Dichlorobenzene	ND	3.0	1	U	1,1,2-Trichloroethane	ND	2.7	1	U
1,2-Dichloroethane	ND	2.0	1	U	1,3,5-Trimethylbenzene	ND	2.5	1	U
1,2-Dichloropropane	ND	2.3	1	U	1,1,2,2-Tetrachloroethane	ND	6.9	1	U
1,3-Dichlorobenzene	ND	3.0	1	U	1,2,4-Trimethylbenzene	ND	7.4	1	U
1,4-Dichlorobenzene	ND	3.0	1	U	1,2,4-Trichlorobenzene	ND	15	1	U
c-1,3-Dichloropropene	ND	2.3	1	U	Vinyl Acetate	ND	7.0	1	U
c-1,2-Dichloroethene	ND	2.0	1	U	Vinyl Chloride	ND	1.3	1	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	57-129			1,2-Dichloroethane-d4	99	47-137		
Toluene-d8	99	78-156							

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



Quality Control - Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

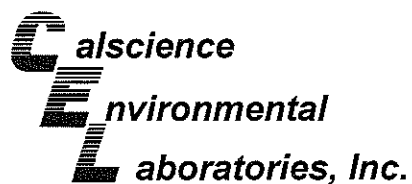
Date Received: 11/30/10
 Work Order No: 10-11-2128
 Preparation: N/A
 Method: EPA TO-3M

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
10-11-2179-4	Air	GC 13	N/A	11/30/10	101130D01

<u>Parameter</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	777200	737700	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

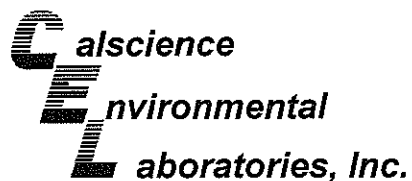
Date Received: N/A
Work Order No: 10-11-2128
Preparation: N/A
Method: ASTM D-1946

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-002-1,187	Air	GC 36	N/A	11/30/10	101130L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	102	98	80-120	3	0-30	
Oxygen + Argon	90	90	80-120	0	0-30	
Nitrogen	90	90	80-120	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

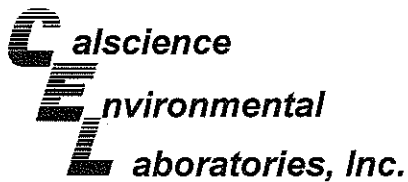
Date Received: N/A
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-021-8,864	Air	GC/MS YY	N/A	12/01/10	101201L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	102	96	60-156	44-172	6	0-40	
Carbon Tetrachloride	101	96	64-154	49-169	5	0-32	
1,2-Dibromoethane	106	100	54-144	39-159	6	0-36	
1,2-Dichlorobenzene	88	84	34-160	13-181	5	0-47	
1,2-Dichloroethane	96	91	69-153	55-167	5	0-30	
1,2-Dichloropropane	102	96	67-157	52-172	6	0-35	
1,4-Dichlorobenzene	93	88	36-156	16-176	5	0-47	
c-1,3-Dichloropropene	116	109	61-157	45-173	6	0-35	
Ethylbenzene	105	100	52-154	35-171	5	0-38	
Xylenes (total)	103	97	52-148	36-164	6	0-38	
Tetrachloroethene	100	95	56-152	40-168	5	0-40	
Toluene	101	95	56-146	41-161	6	0-43	
Trichloroethene	99	94	63-159	47-175	6	0-34	
1,1,2-Trichloroethane	101	96	65-149	51-163	6	0-37	
Vinyl Chloride	110	103	45-177	23-199	6	0-36	

Total number of LCS compounds : 15
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: N/A
Work Order No: 10-11-2128
Preparation: N/A
Method: EPA TO-15

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
095-01-021-8,869	Air	GC/MS YY	N/A	12/04/10	101204L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	105	60-156	44-172	0	0-40	
Carbon Tetrachloride	100	101	64-154	49-169	1	0-32	
1,2-Dibromoethane	108	108	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	89	90	34-160	13-181	1	0-47	
1,2-Dichloroethane	96	97	69-153	55-167	1	0-30	
1,2-Dichloropropane	104	105	67-157	52-172	0	0-35	
1,4-Dichlorobenzene	94	95	36-156	16-176	1	0-47	
c-1,3-Dichloropropene	118	119	61-157	45-173	1	0-35	
Ethylbenzene	107	107	52-154	35-171	0	0-38	
Xylenes (total)	104	104	52-148	36-164	0	0-38	
Tetrachloroethene	102	102	56-152	40-168	0	0-40	
Toluene	104	104	56-146	41-161	0	0-43	
Trichloroethene	101	101	63-159	47-175	1	0-34	
1,1,2-Trichloroethane	103	104	65-149	51-163	0	0-37	
Vinyl Chloride	110	110	45-177	23-199	0	0-36	

Total number of LCS compounds : 15

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit

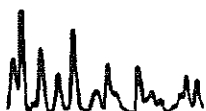
Glossary of Terms and Qualifiers



Work Order Number: 10-11-2128

<u>Qualifier</u>	<u>Definition</u>
*	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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS recovery percentage is within LCS ME control limit range.
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.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
U	Undetected at detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



Sandy Tat

From: Thomas Neely [tneely@eticeng.com]
Sent: Tuesday, March 08, 2011 11:28 AM
To: Sandy Tat
Subject: Re: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Yes. Please

Tom Neely

Thomas Neely, PG, CHG, REA II
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x32
Fax. 925-602-4720
Mobile.925-301-7125
tneely@eticeng.com
www.eticeng.com

From: Sandy Tat <STat@calscience.com>
To: Thomas Neely
Sent: Tue Mar 08 11:03:55 2011
Subject: RE: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Hi Thomas,

Yes, we can report full scan on both samples; therefore, do you want us to proceed? Thanks!

Best Regards,

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
STat@calscience.com



From: Thomas Neely [<mailto:tneely@eticeng.com>]
Sent: Monday, March 07, 2011 1:24 PM
To: Cecile de Guia

Cc: Yuko Mamiya
Subject: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Cecile,

For soil sample VW4@5.5-6.0 (CEL 10-11-2044-7-A) and soil vapor sample VW4 (CEL 10-11-2128-4-A). Would you be able to report the full VOC list (8260B or TO-15, accordingly)?

Please let me know, then I will inform you if we would like to proceed.

Thank you,

Tom

Thomas Neely, PG, CHG, REA II

ETIC Engineering, Inc.
2285 Morello Ave.

Pleasant Hill

CA 94523

Tel. 925-602-4710 x32

Fax. 925-602-4720

Mobile.925-301-7125

tneely@eticeng.com

www.eticeng.com

Cecile de Guia

From: Yuko Mamiya [ymamiya@eticeng.com]
Sent: January 13, 2011 17:07
To: Cecile de Guia
Subject: RE: ExxonMobil 04FGN / CEL 10-11-2044 and CEL 10-11-2128

Hi Cecile,

Do you still have the soil samples VW2@5.5-6.0 and VW4@5.5-6.0 and vapor sample VW2? They were sampled on 11/23/10 (soil) and 11/26/10 (vapor).... We need to analyze the samples for the following compounds:

Soil sample VW2@5.5-6.0

- Volatile organic compounds (VOCs) including chlorinated hydrocarbons by EPA Method 8260,
- Metals (Cd, Cr, Pb, Ni, and Zn) by ICAP or AA,

Soil sample VW4@5.5-6.0

- Metals (Cd, Cr, Pb, Ni, and Zn) by ICAP or AA,

Vapor sample VW2

- Chlorinated VOCs (EPA Method 8260 or TO-15) analysis for the soil vapor samples.

Please let me know...

Yuko Mamiya

ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x 37
Fax. 925-602-4720

ymamiya@eticeng.com

www.eticeng.com



From: Jason Leary
Sent: Thursday, December 09, 2010 10:31 AM
To: Yuko Mamiya
Cc: Deborah Hensley; Aileen Galve
Subject: LAB SOIL RESULTS: 04FGN (10-11-2044)

Jason Leary

ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill
CA 94523
Tel. 925-602-4710 x 20
Fax. 925-602-4720

jleary@eticeng.com

www.eticeng.com



From: Sandy Tat [<mailto:STat@calscience.com>]
Sent: Wednesday, December 08, 2010 4:46 PM
To: ETICLabReports; Erik Appel
Cc: Bryan Campbell
Subject: ExxonMobil 04FGN / CEL 10-11-2044

Best Regards,

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
STat@calscience.com

Christmas/New Year's Holiday Schedule

Dec. 24, Friday – 08:30-17:30*

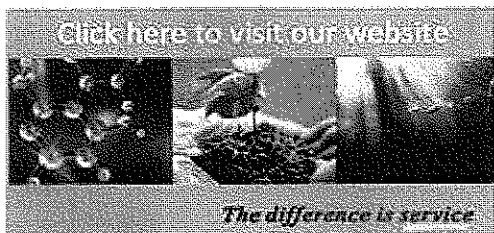
Dec. 25, Saturday – CLOSED

Dec. 27, Monday – 08:30-17:30*

Dec. 31, Friday – 08:30-17:30*

Jan. 1, Saturday – CLOSED

**Sample receiving only, business is closed.*



PRIVACY NOTICE:

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not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience Environmental Laboratories, Inc. for any defense to any litigation which arises.

Cecile de Guia

From: Erik Appel [eappel@eticeng.com]
Sent: November 30, 2010 14:15
To: Cecile de Guia
Cc: Yuko Mamiya
Subject: Re: ExxonMobil 04FGN; 10-11-2128

Cecile,

Yes, helium was used as the leak detector.

Erik Appel, PG
eappel@eticeng.com
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill, CA 94523
Tel: 925-602-4710 x 21
Fax: 925-602-4720
Cell: 925-642-2545
www.eticeng.com

On Nov 30, 2010, at 1:45 PM, "Cecile de Guia" <CdeGuia@calscience.com> wrote:

> Erik - Please review the attached COC and advise if you have used Helium as the Leak Detector compound and if we need to analyze it. If yes, please add to the attached COC for analysis, Helium by ASTM D-1946. Thank you.

>
> <<10-11-2128.PDF>>

>
> Cecile de Guia
> Project Manager
> Calscience Environmental Laboratories, Inc.
> 7440 Lincoln Way
> Garden Grove, CA 92841-1427
> Phone: 714-895-5494 x221
> Fax: 714-894-7501
> CdeGuia@calscience.com

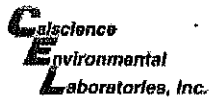
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> <10-11-2128.PDF>



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

Site Name

Provide MRN for retail or AFE for major projects

Retail Project (MRN)

Major Project (AFE)

Project Name Former Mobil 04FGN

CHAIN OF CUSTODY RECORD

DATE: 11/26/10
 PAGE: 1 OF 1

ExxonMobil Engr:

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering		GLOBAL ID # COELT LOG CODE: GLOBAL ID# T0600100912	P.O. 4512008383
ADDRESS: 2285 Morello Avenue		PROJECT CONTACT: Erik Appel, ETIC Engineering, Inc.	LAB USE ONLY: 11-21-28
CITY: Pleasant Hill, CA 94523		SAMPLER(S): (SIGNATURE) 	COOLER RECEIPT Temp - _____ °C
TEL: 925-602-4710 Ext. 21	FAX: 925-602-4720	REQUESTED ANALYSIS	
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS			
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ____/____/____			
SPECIAL INSTRUCTIONS:			

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MAT- RIX	NO. OF CONT.	CONTAINER TYPE
			DATE	TIME			
	7 VW1	-17" Hg. Left	11/26/10		Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister
	8 VW2	-17" Hg. Left	}		Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister
	9 VW3	-2" Hg. Left		Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister	
	10 VW4	-17" Hg. Left		Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister	
	11 VW5	-18" Hg. Left		Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister	
				Vapor	1	DO NOT ANALYZE 6-Liter Summa Canister	

Relinquished by: (Signature) 	Received by: (Signature) T. Ormally CER	Date, & Time: 11/29/10 1420
Relinquished by: (Signature) to CER 11/29/10 1730	Received by: (Signature) 	Date, & Time: 11/30/10 1030
Relinquished by: (Signature)	Received by: (Signature)	Date, & Time:

COC199105 COC vapor



Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
\$0.00

Reference:
ETIC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 515441611

NPS

ORC

D

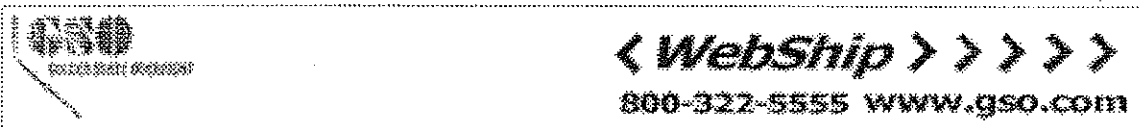
GARDEN GROVE

D92843A

86658388

Print Date: 11/29/10 15:07 PM

Package 1 of 2



Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
\$0.00

Reference:
ETIC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 515441612

NPS

ORC

D

GARDEN GROVE

D92843A

86658390

Print Date: 11/29/10 15:07 PM

Package 2 of 2

WORK ORDER #: 10-11-2128

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: ETIC

DATE: 11 / 10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature _____ °C + 0.5°C (CF) = _____ °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler Box No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

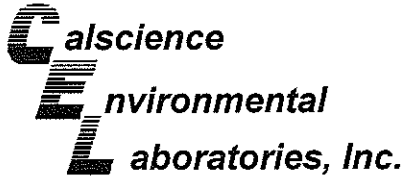
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** W

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** Q



December 08, 2010

Erik Appel
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Subject: Calscience Work Order No.: 10-11-2045
Client Reference: ExxonMobil 04FGN

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/26/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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.

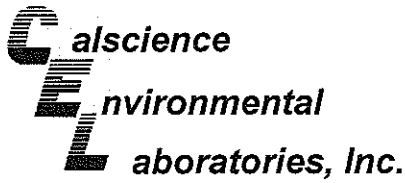
Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager





Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2045
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Drum 1 and 2	10-11-2045-3-A	11/24/10 00:00	Solid	GC 24	11/27/10	11/27/10 14:42	101127B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

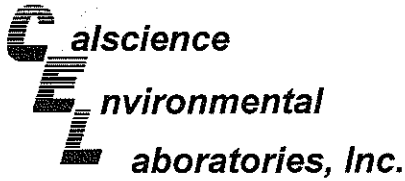
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene	92	42-126				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-279-4,121	N/A	Solid	GC 24	11/27/10	11/27/10 12:26	101127B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	0.50	0.42	1	U	mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
1,4-Bromofluorobenzene - FID	122	42-126				

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



Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2045
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 04FGN

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Drum 1 and 2	10-11-2045-3-A	11/24/10 00:00	Solid	GC/MS Z	11/26/10	11/28/10 07:11	101127L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.00020	1	U	Toluene	ND	0.0050	0.00029	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Xylenes (total)	ND	0.0050	0.00032	1	U
Surrogates:			REC (%)	Control Limits	Qual	Surrogates:			REC (%)	Control Limits	Qual
Dibromofluoromethane	99	63-141				1,2-Dichloroethane-d4	95	62-146			
Toluene-d8	98	80-120				1,4-Bromofluorobenzene	95	60-132			

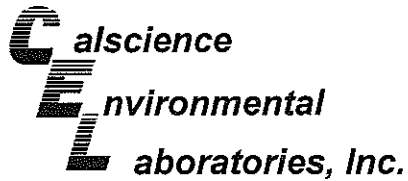
Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-4,211	N/A	Solid	GC/MS Z	11/27/10	11/27/10 23:07	101127L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

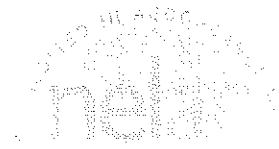
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.00020	1	U	Toluene	ND	0.0050	0.00029	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Xylenes (total)	ND	0.0050	0.00032	1	U
Surrogates:			REC (%)	Control Limits	Qual	Surrogates:			REC (%)	Control Limits	Qual
Dibromofluoromethane	95	63-141				1,2-Dichloroethane-d4	88	62-146			
Toluene-d8	97	80-120				1,4-Bromofluorobenzene	93	60-132			

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





Analytical Report



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 11/26/10
Work Order No: 10-11-2045
Preparation: EPA 3050B
Method: EPA 6010B

Project: ExxonMobil 04FGN

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Drum 1 and 2	10-11-2045-3-A	11/24/10 00:00	Solid	ICP 5300	11/29/10	11/29/10 20:02	101129L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

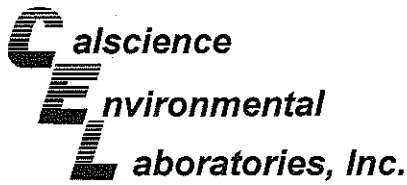
Parameter	Result	RL	MDL	DF	Qual	Units
Lead	29.0	0.500	0.181	1		mg/kg

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-14,382	N/A	Solid	ICP 5300	11/29/10	11/29/10 14:33	101129L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Lead	ND	0.500	0.181	1	U	mg/kg

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



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

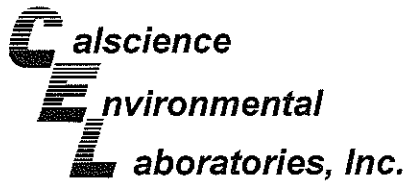
Date Received: 11/26/10
 Work Order No: 10-11-2045
 Preparation: EPA 3050B
 Method: EPA 6010B

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-11-1618-5	Solid	ICP 5300	11/29/10	11/29/10	101129S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	88	99	75-125	7	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSB



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

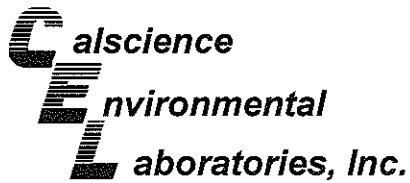
Date Received 11/26/10
 Work Order No: 10-11-2045
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: ExxonMobil 04FGN

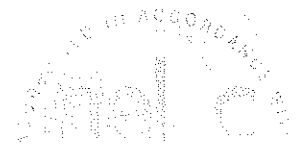
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSB Batch Number
10-11-1618-5	Solid	ICP 5300	11/29/10	11/29/10	101129S01

Parameter	PDS %REC	PDSB %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	95	94	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

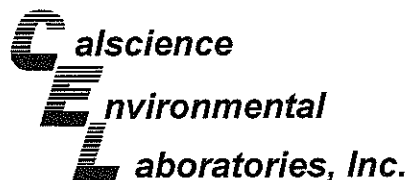
Date Received: 11/26/10
Work Order No: 10-11-2045
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Drum 1 and 2	Solid	GC 24	11/27/10	11/27/10	101127S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	89	81	48-114	9	0-23	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

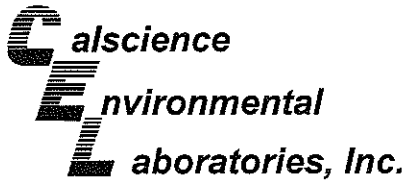
Date Received: 11/26/10
Work Order No: 10-11-2045
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-11-2023-21	Solid	GC/MS Z	11/24/10	11/28/10	101127S02

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	89	91	61-127	1	0-20	
Ethylbenzene	90	90	57-129	1	0-22	
Toluene	91	92	63-123	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

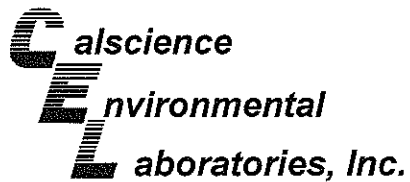
Date Received: N/A
 Work Order No: 10-11-2045
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: ExxonMobil 04FGN

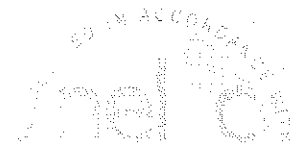
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-14,382	Solid	ICP 5300	11/29/10	11/29/10	101129L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	110	114	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

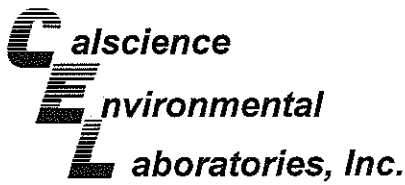
Date Received: N/A
Work Order No: 10-11-2045
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-279-4,121	Solid	GC 24	11/27/10	11/27/10	101127B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	113	105	70-124	7	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

Date Received: N/A
 Work Order No: 10-11-2045
 Preparation: EPA 5030C
 Method: EPA 8260B

Project: ExxonMobil 04FGN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-4,211	Solid	GC/MS Z	11/27/10	11/27/10	101127L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	88	78-120	0	0-20	
Ethylbenzene	88	85	76-120	3	0-20	
Toluene	88	90	77-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

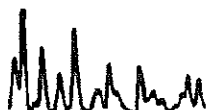
Glossary of Terms and Qualifiers



Work Order Number: 10-11-2045

<u>Qualifier</u>	<u>Definition</u>
*	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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
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.
ME	LCS recovery percentage is within LCS ME control limit range.
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.
U	Undetected at detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



2045

GSO
 < WebShip > > > >
 800-322-5555 www.gso.com

Ship From: ALAN KEMP CAL SCIENCE- CONCORD 5063 COMMERCIAL CIRCLE #H CONCORD, CA 94520 Ship To: SAMPLE RECEIVING CEL 7440 LINCOLN WAY GARDEN GROVE, CA 92841 COD: \$0.00 Reference: PREMIER ENV, ETIC, CRA Delivery Instructions: Signature Type: SIGNATURE REQUIRED	Tracking #: 515432186 <input type="text"/>	NPS
	ORC	
	GARDEN GROVE	
	D92843A	
	<input checked="" type="checkbox"/> C1 86621189 <input type="text"/>	
	86621189	Print Date : 11/24/10 15:44 PM

Package 1 of 1

Print All

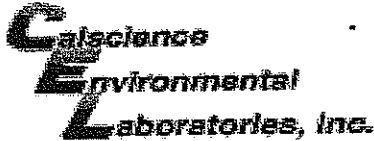
LABEL INSTRUCTIONS:

- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but are not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-11-045

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC

DATE: 11/26/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C + 0.5 °C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: YL

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: YL

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (S) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: YL

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: YL

Appendix I
Waste Documentation

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of 1
3. Emergency Response Phone: 800-575-1056
4. Waste Tracking Number: 911979-121410

5. Generator's Name and Mailing Address: Exxon Mobil Oil Corporation (04FGM), 2555 West 190th St., #105, Oakland, CA 90604 USA
Generator's Site Address (if different than mailing address): 14524 East 14th St., San Leandro, CA USA
Generator's Phone: 925-575-1056-32

6. Transporter 1 Company Name: DILLARD ENVIRONMENTAL SERVICES
U.S. EPA ID Number: CAD662523433

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: REPUBLIC SERVICES (VASCO ROAD LANDFILL), 4601 N VASCO ROAD, LIVERMORE, CA 94550 USA
Facility's Phone: 925-447-0491
U.S. EPA ID Number:

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt/Vol
	No.	Type		
1. Non-Hazardous Waste Soil, (Drill Cuttings)	2	DM	800	P
2. Non-Hazardous Waste Solid, (Construction Debris)	1	DM	400	P
3.				
4.				

13. Special Handling Instructions and Additional Information: DES Job# 911-079

DEC 20 2010

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, placarded, and are in all respects in proper condition for transport according to applicable international and governmental regulations.

Generator's/Offerer's Printed Name: David Campbell
Signature: [Signature]
Month Day Year: 12/15/10

15. International Shipments: Import to U.S. Export from U.S. Part of entry is: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David Burke
Signature: [Signature]
Month Day Year: 12/15/10
Transporter 2 Printed/Typed Name: Signature: Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator): Month Day Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Signature: DEC 15 2010
Month Day Year:

[Signature] 12-20-10