ExxonMobil Environmental Services Company

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March 28, 2011

10:03 am, Mar 30, 2011 Alameda County Environmental Health **E**XonMobil

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

Subject: Subsurface Investigation Report

Fuel Leak Case No. RO0000445

Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California

Dear Ms. Jakub:

Attached for your review and comment is a copy of the *Subsurface Investigation Report* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the offsite investigation conducted 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:

Subsurface Investigation Report

c: w/ attachment:

Ms. Connie Lam (property owner)

c:

w/o attachment:

Ms. Christa Marting - ETIC Engineering, Inc.



Subsurface Investigation Report

Former Mobil Station 99105 6301 San Pablo Avenue Oakland, 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 Date

3/28/11

Thomas E. Neely, PG, CHG, REATH

Senior Hydrogeologist

Date

March 2011

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Former Mobil Station 99105

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SITE CONTACTS

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Station Address: 6301 San Pablo Avenue

Oakland, California

ExxonMobil Project Manager: Jennifer C. Sedlachek

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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 Subsurface Investigation Report for former Mobil Station 99105, located at 6301 San Pablo Avenue, Oakland, California (Figure 1).

This work was performed in general accordance with the Vapor Intrusion Assessment and Well Installation Work Plan (Work Plan) dated December 2008 and the Work Plan Addendum dated October 2009. In response to the letter from the Alameda County Health Care Services Agency (ACHCSA) dated 13 August 2009, the previously proposed scope of work in the Work Plan (ETIC 2008) was modified, and the work plan addendum outlined the new proposed scope of work for the collection of soil and groundwater samples to evaluate the extent of petroleum hydrocarbons (ETIC 2009).

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 results of the offsite investigation.

Scope of Work

The investigation consisted of the following activities:

- On 17 through 19 November 2010, ETIC observed the advancement of five offsite soil borings (B1 though B5) to a maximum depth of 25 feet below ground surface (bgs).
- Soil samples were collected during the advancement of the soil borings.
- Groundwater samples were collected from two soil borings.

2. SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Former Mobil Station 99105 is located at 6301 San Pablo Avenue, Oakland, California, on the northwestern corner of the intersection of San Pablo Avenue and 63rd Street (Figure 2). The site was used as a Mobil service station from 1951 to 1980. The site was subsequently used as a car rental lot and is currently an automobile oil change facility. The former four 2,000-gallon gasoline underground storage tanks (USTs) and one 350-gallon used-oil UST were not in use after 1980 and were removed in 1994 (Figure 2). Commercial properties are situated to the north along San Pablo Avenue. To the east, across San Pablo Avenue, is an elementary school, and to the west and south are residential properties.

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 HYDROGEOLOGY

The depth to groundwater beneath the site has ranged from approximately 3 to 12.5 feet bgs. The groundwater flow direction reportedly has varied from the northwest to the southwest. The hydraulic gradient during the most recent groundwater monitoring event in September 2010 was calculated to be 0.07 foot per foot toward the southwest (ETIC 2010). The most recent groundwater flow direction and analytical results are shown on Figure 3.

2.4 SUMMARY OF PREVIOUS INVESTIGATION ACTIVITIES

Previous environmental activities conducted at the site are listed below and were obtained from the Risk-Based Corrective Action Report prepared by TRC Alton Geoscience (TRC), dated October 2002 (TRC 2002). Soil boring and well locations are shown on Figure 2.

In March 1996, four groundwater monitoring wells (MW1 through MW4) were installed (Alisto 1996).

In March 1998, 13 soil borings (AB-1 through AB-13) were drilled to characterize the extent of hydrocarbons in soil and groundwater onsite (Alton 1998).

On 19 November 1998, a dual-phase extraction (DPE) event was conducted. Six temporary monitoring points (MP-1 through MP-6) were advanced to further characterize the extent of hydrocarbon-impacted vadose zone soil and to obtain vacuum readings and groundwater depths during the DPE event. Groundwater and soil vapor were extracted from wells MW3 and MW4. Vacuum response and groundwater depths were measured in the temporary monitoring points and monitoring wells during the DPE event. Approximately 21 pounds of vapor-phase hydrocarbons and 75 gallons of hydrocarbon-impacted groundwater were recovered during the event (Alton 1999). Following the extraction event, monitoring points MP-1 through MP-6 were abandoned in-place.

In early 1999, more than 200 cubic yards of soil was removed from the northeastern portion of the site during redevelopment activities conducted by the property owner. Monitoring well MW4 was inadvertently destroyed during the construction activities (TRC 2002).

In July 1999, MW1 was properly destroyed in preparation for the construction activities (TRC 1999).

In January 2000, one soil boring (HA-1) was advanced in the footprint area of the oil change facility (i.e., prior to construction of the building) to confirm the absence of hydrocarbon impacts in this area.

In the fall of 2000, two (MW2 and MW3) of the three monitoring wells damaged during construction activities conducted by the property owner in 1999 were rehabilitated and the third well (MW4) was replaced by well MW5. The remaining three wells (MW2, MW3, and MW5) were monitored on a quarterly basis until January 2004.

In September 2010, monitoring wells MW2, MW3, and MW5 were re-developed, and groundwater samples were collected from these wells (ETIC 2010).

Well construction details are presented in Table 1, historical soil sample analytical results are presented in Table 2, historical groundwater sample analytical results for temporary borings are presented in Table 3, and groundwater monitoring data are summarized in Tables 4 and 5.

2.5 SUMMARY OF PREVIOUS INTERIM REMEDIAL MEASURES

In August 1994, four 2,000-gallon gasoline USTs and one 350-gallon used-oil UST were excavated and removed from the site. Holes were observed in two of the gasoline tanks. Analysis of soil samples collected from the bottom of the gasoline tank excavation at 11 feet bgs indicated maximum concentrations of 520 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as gasoline (TPH-g) and 0.18 mg/kg of benzene. Liquid-phase hydrocarbons were observed in the groundwater of the gasoline tank excavation. Analysis of the soil sample from the bottom of the used-oil tank excavation indicated a maximum concentration of 21 mg/kg of TPH-g, 1.2 mg/kg of Total Petroleum Hydrocarbons as diesel (TPH-d), and 94 mg/kg of Total Oil and Grease (TOG). Benzene was not reported above the laboratory detection limit (Alisto 1996).

In January 1996, additional compliance soil samples were collected from the UST excavations. A total of six soil samples were collected from the sidewalls of the gasoline tank excavation and a total of two soil samples were collected from the bottom of the used-oil tank excavation. Analysis of the soil samples from the gasoline tank excavation indicated maximum concentrations of 9.5 mg/kg of TPH-g, 44 mg/kg of TPH-d, and 0.11 mg/kg of benzene. Analysis of the soil samples from the used-oil tank excavation indicated maximum concentrations of 2.9 mg/kg of TPH-d and 10 mg/kg of TOG. Benzene was not reported above the laboratory detection limit (Alisto 1996).

In February 1996, the standing water in the gasoline tank excavation, which had risen to approximately 3 feet bgs, was pumped from the excavation. Non-hazardous waste manifests in the Alisto Engineering Group 1996 report show a total of 16,170 gallons of water was removed from the site at this time. Additional soil samples were collected from the bottom of the gasoline tank excavation. Analysis of those samples indicated a maximum concentration of 640 mg/kg of TPH-g and 160 mg/kg of TPH-d. Benzene was not reported above the laboratory detection limit (Alisto 1996).

Also in February 1996, three 2-inch-diameter fiberglass and two 2-inch-diameter steel fuel pipelines were excavated and removed from the site. No holes were observed in the fiberglass piping. The steel piping showed signs of rust and staining was apparent at the pipe stub-ups near the northwest end of the former dispenser island. The excavation of the product lines was approximately 3 feet wide by 3 feet deep by 50 feet long, from the southeastern corner of the gasoline tank excavation to

the dispenser islands. An area of approximately 16 feet long by 11 feet wide by 5 feet deep was overexcavated near the northwestern end of the former dispenser island to remove apparent petroleum hydrocarbon-impacted soils. Compliance soil samples were collected every 20 linear feet from the former product line excavation. Analysis of those samples indicated a maximum concentration of 240 mg/kg of TPH-g, 37 mg/kg of TPH-d, and 0.30 mg/kg of benzene (Alisto 1996).

An estimated 367 cubic yards of soil was excavated and removed from the site during the UST and piping removals (Alisto 1996).

On 19 November 1998, a DPE event was conducted. Six temporary monitoring points (MP-1 through MP-6) were advanced to further characterize the extent of hydrocarbon-impacted vadose zone soil and to obtain vacuum readings and groundwater depths during the DPE event. Groundwater and soil vapor were extracted from wells MW3 and MW4. Vacuum response and groundwater depths were measured in the temporary monitoring points and monitoring wells during the DPE event. Approximately 21 pounds of vapor-phase hydrocarbons and 75 gallons of hydrocarbon-impacted groundwater were recovered during the event (Alton 1999). Following the extraction event, monitoring points MP-1 through MP-6 were abandoned in-place.

In early 1999, more than 200 cubic yards of soil were removed from the north area of the site during redevelopment activities conducted by the property owner. Monitoring well MW4 was inadvertently destroyed during the construction activities (TRC 2002).

3. SUBSURFACE INVESTIGATION

On 17 through 19 November 2010, ETIC observed the advancement of five offsite soil borings (B1 through B5). Prior to drilling, an encroachment permit was obtained from the City of Oakland and a permit to drill the borings was obtained from Alameda County Public Works Agency. Copies of the permits are attached as Appendix B. The locations of the borings are shown on Figure 2.

3.1 DRILLING OF SOIL BORINGS

On 17 November 2010, soil borings B1 through B5 were cleared by Cascade Drilling, LP (Cascade) of Rancho Cordova, California (C-57 license #938110) with a vacuum rig to ensure that there were no obstructions within the potential path of the direct-push equipment. The borings were cleared to a depth of 8 feet bgs.

On 18 and 19 November 2010, soil borings B1 through B5 was advanced to a maximum depth of 25 feet bgs by Cascade, using the dual-tube, direct-push method. Each boring was continuously logged to the total depth, and soil samples were collected for laboratory analysis. Upon removing the sampling equipment, the borings were filled and sealed with a neat cement grout. Field methods and procedures are described in the protocols, presented in Appendix C. The boring logs are presented in Appendix D.

3.2 SOIL SAMPLING

Soil cores were collected continuously from the base of the cleared hole to the total depths of the borings using a direct-push, dual-tube soil coring system. A hydraulic hammer drove two nested sampling rods simultaneously: Small-diameter inner sampling rods were used to obtain and retrieve the soil cores; the larger diameter (approximately 3-inch outside diameter) outer rods served as temporary drive casing. As the rods were advanced, soil was driven into a 4-foot-long liner inside an approximately 1.5-inch-diameter sample barrel that was attached to the end of the inner rods.

The samples were examined in the field for soil characteristics. The soil is described in the soil boring logs presented in Appendix D. Selected soil samples were cut from the core liner, sealed with Teflon tape, capped, labeled, placed in a cooler with ice, and submitted to Calscience Environmental Laboratories, Inc. (Calscience), a state-certified laboratory in Garden Grove, California. Standard chain-of-custody procedures were followed. Soil sampling procedures are described in the protocols, presented in Appendix C.

3.3 GROUNDWATER SAMPLING

Attempts were made to collect groundwater samples from all borings. Groundwater samples were collected from borings B3 and B5. Water did not accumulate in boring B1 after waiting at least 1 hour. After achieving a total depth of 20 feet bgs, borings B2 through B5 were secured, and left with temporary casing in place overnight. Water did not accumulate in borings B2 and B4 after waiting overnight.

To collect the samples, the dual-tube casing was driven to the desired depth, the soil sample barrel,

inner rods, and drive casing were removed which allowed water to enter the boring. If water did not immediately enter the borehole, the borehole was left in this configuration for at least 1 hour. If water did not enter during the waiting period, the borehole was secured and left open overnight with temporary casing in an attempt to collect water.

The samples were collected from 1-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and 0.010-inch machine-slotted Schedule 40 PVC casing inserted in the boring. The groundwater samples were collected from the temporary casings using 0.25-inch-diameter polyethylene tubing and a peristaltic pump. The samples were submitted to Calscience for analysis. Groundwater sample collection procedures are described in Appendix C.

3.4 WASTE CONTAINMENT AND DISPOSAL

Reusable sampling equipment was decontaminated after each use. The waste generated during drilling activities was contained in 55-gallon drums and temporarily stored onsite. Samples were collected from the drums and submitted to Calscience Environmental Laboratories, Inc. (Calscience), a state-certified analytical laboratory in Garden Grove, California. The samples were analyzed for TPH-g, BTEX, and total lead in order to characterize the waste for proper disposal. The laboratory analytical reports and chain-of-custody documentation are included in Appendix E. The waste was removed from the site on 15 December 2010 and transported to an ExxonMobil-approved facility for disposal. Waste documentation is included in Appendix F.

4. RESULTS

4.1 SITE GEOLOGY AND HYDROGEOLOGY

The majority of the soil encountered during drilling generally consisted of clay and silt with occasional sand or gravel to 25 feet bgs. Clayey sand was encountered in boring B1 between approximately 8 and 10 feet bgs. Silty sand was encountered between approximately 11 and 11.5 feet in boring B1. Silty sand with clay was encountered between approximately 15 and 17 feet bgs in boring B3. Sandy and/or clayey gravel was encountered in boring B1 between approximately 15 and 15.5 feet bgs, in boring B4 between approximately 18.75 and 19.25 feet bgs, and in boring B5 between approximately 16.5 and 17.5 feet bgs. Detailed soil descriptions are presented in the boring logs in Appendix D.

Groundwater in soil borings B3 and B5 was first encountered at depths between approximately 9 and 9.5 feet bgs.

4.2 SOIL SAMPLE ANALYTICAL METHODS AND RESULTS

Soil samples were submitted to Calscience, and analyzed for TPH-g and TPH-d by EPA Method 8015B (M), and for BTEX, methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), 1,2-dichloroethane (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. Analytical results are summarized in Table 2. The laboratory analytical reports and chain-of-custody documentation are included in Appendix E.

- TPH-g, TPH-d, and BTEX were not detected above laboratory reporting limits in any of the soil samples collected during this investigation.
- MTBE, TBA, 1,2-DCA, DIPE, 1,2-DBA, ETBE, and TAME were not detected above laboratory reporting limits in any of the soil samples collected during this investigation.

4.3 GROUNDWATER SAMPLE ANALYTICAL METHODS AND RESULTS

Groundwater samples were submitted to Calscience and analyzed for TPH-g and TPH-d by EPA Method 8015B (M), and for BTEX, MTBE, TBA, 1,2-DCA, DIPE, 1,2-DBA, ETBE, and TAME by EPA Method 8260B. Analytical results are summarized in Table 3 and on Figure 4. The laboratory analytical reports and chain-of-custody documentation are included in Appendix E.

- Ethylbenzene was detected at concentrations up to $0.053 \mu g/L$ in the groundwater samples (boring B3).
- Xylenes were detected at a concentration of 0.21 μ g/L in the groundwater samples collected from borings B3 and B5.

- 1,2-DCA was detected at concentrations up to 8.7 μ g/L in the groundwater samples (boring B3).
- No other analytes were detected at or above laboratory reporting limits in the groundwater samples.

5. SUMMARY

On 17 through 19 November 2010, ETIC observed the advancement of offsite borings B1 through B5 at Former Mobil Station 99105. The borings were advanced to a maximum depth of 25 feet bgs to assess the potential petroleum hydrocarbon impacts to soil and groundwater downgradient of the site.

Groundwater sampling was attempted at the same approximate depth of first groundwater encountered in previous onsite investigations. Groundwater samples could not be collected from B1, B2, or B4, but were collected from B3 and B5.

TPH-g, TPH-d, BTEX, MTBE, TBA, 1,2-DCA, DIPE, 1,2-DBA, ETBE, and TAME were not detected above laboratory reporting limits in any of the soil samples collected during this investigation.

Ethylbenzene was detected at a maximum concentration of $0.053~\mu g/L$ in the groundwater sample collected from boring B3. Xylenes were detected at a maximum concentration of $0.21~\mu g/L$ in groundwater samples collected from borings B3 and B5. 1,2-DCA was detected at a maximum concentration of $8.7~\mu g/L$ in the groundwater sample collected from boring B3.

Recommendations will be submitted under separate cover.

6. REFERENCES

Alisto (Alisto Engineering Group). 1996. Additional Tank Closure and Preliminary Site Investigation Report, Former Mobil Oil Corporation, Station 99105, 6301 San Pablo Avenue, Oakland, California, 15 April.

Alton (Alton Geoscience). 1998. Supplemental Site Assessment Report, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California, 15 July.

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DWR (Department of Water Resources). 2003. California's Groundwater, Bulletin 118, Update 2003, San Francisco Bay Hydrologic Region, Santa Clara Valley Groundwater Basin, East Bay Plain Subbasin. DWR, Sacramento, California.

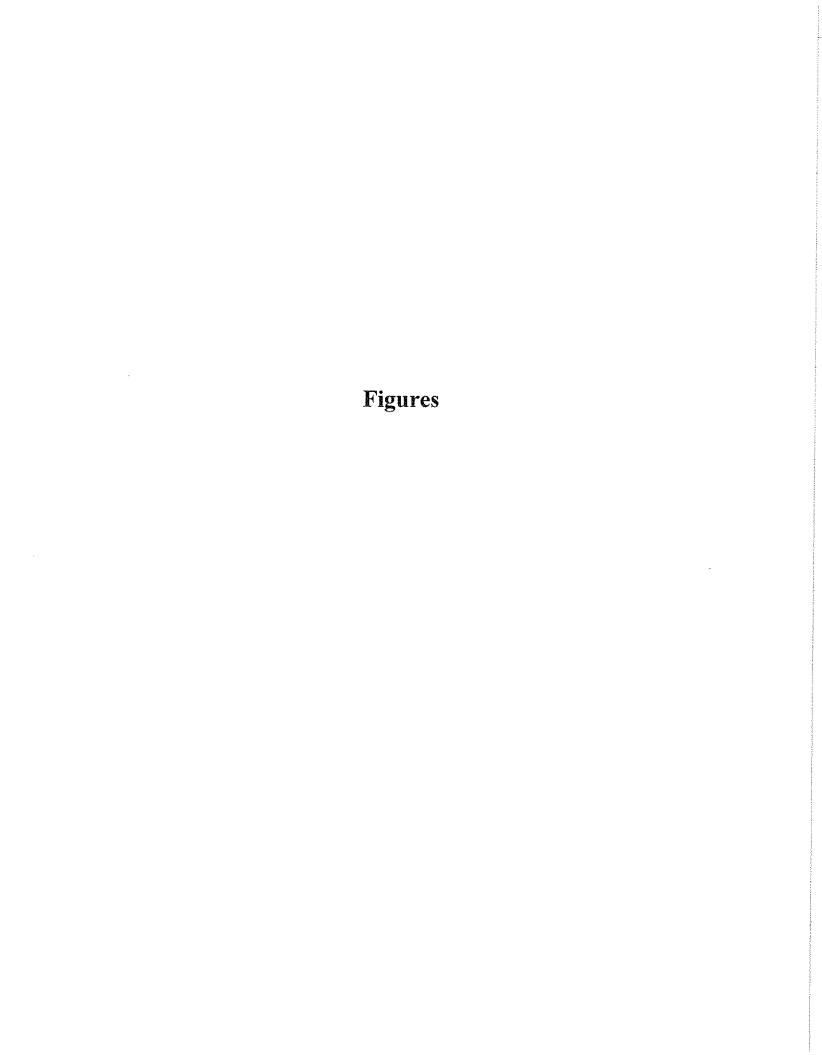
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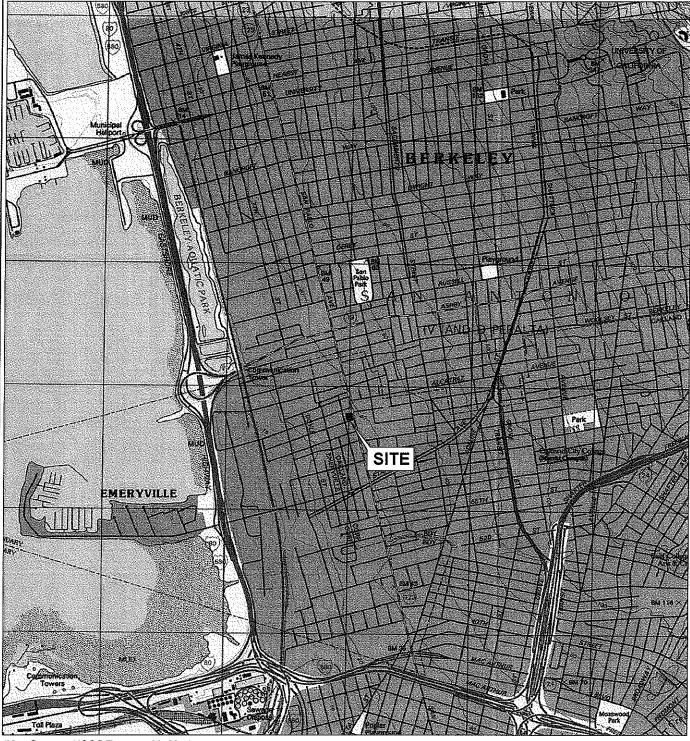
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ETIC (ETIC Engineering, Inc.). 2010. Report of Groundwater Monitoring, Third Quarter 2010, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California. ETIC, Pleasant Hill, California. November.

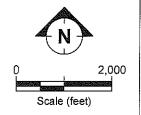
TRC (TRC Alton Geoscience). 1999. Progress Report and Work Plan for the Installation of One Soil Boring, Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California. 3 November.

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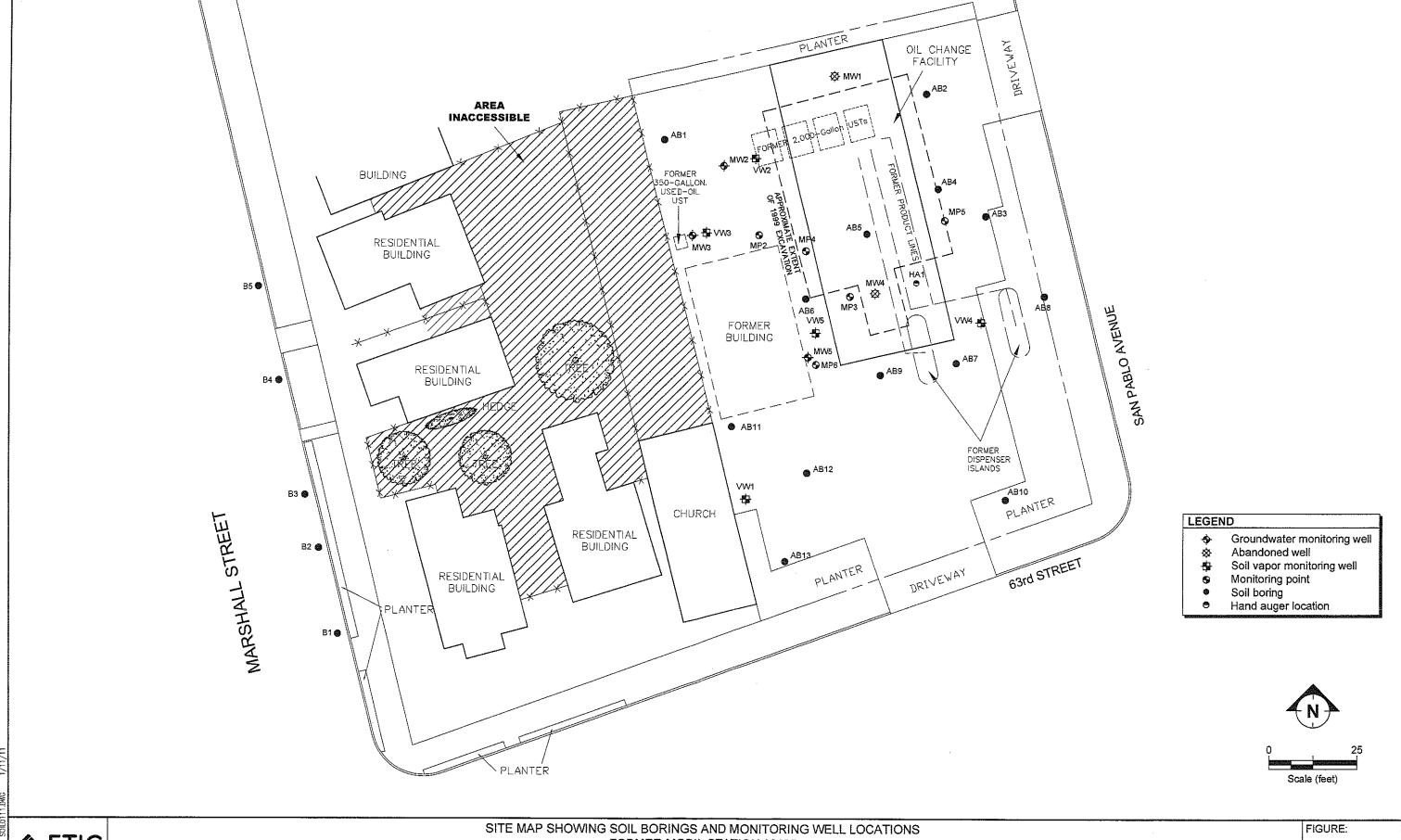




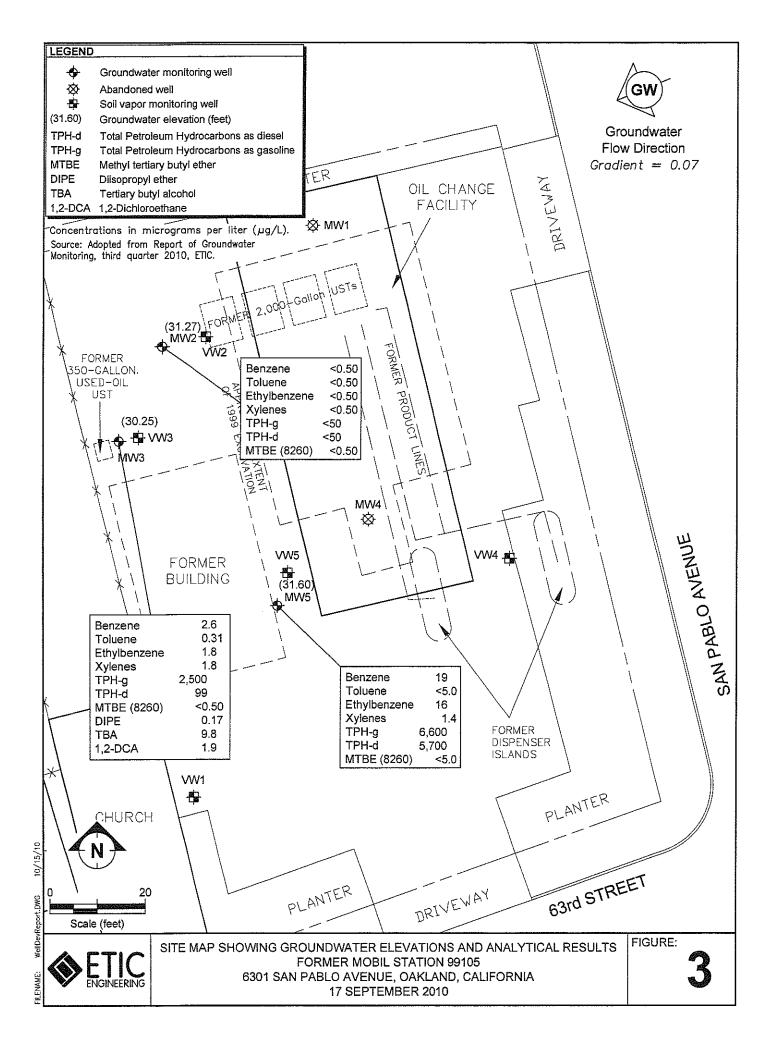
(Map Source: USGS Topographic Map)

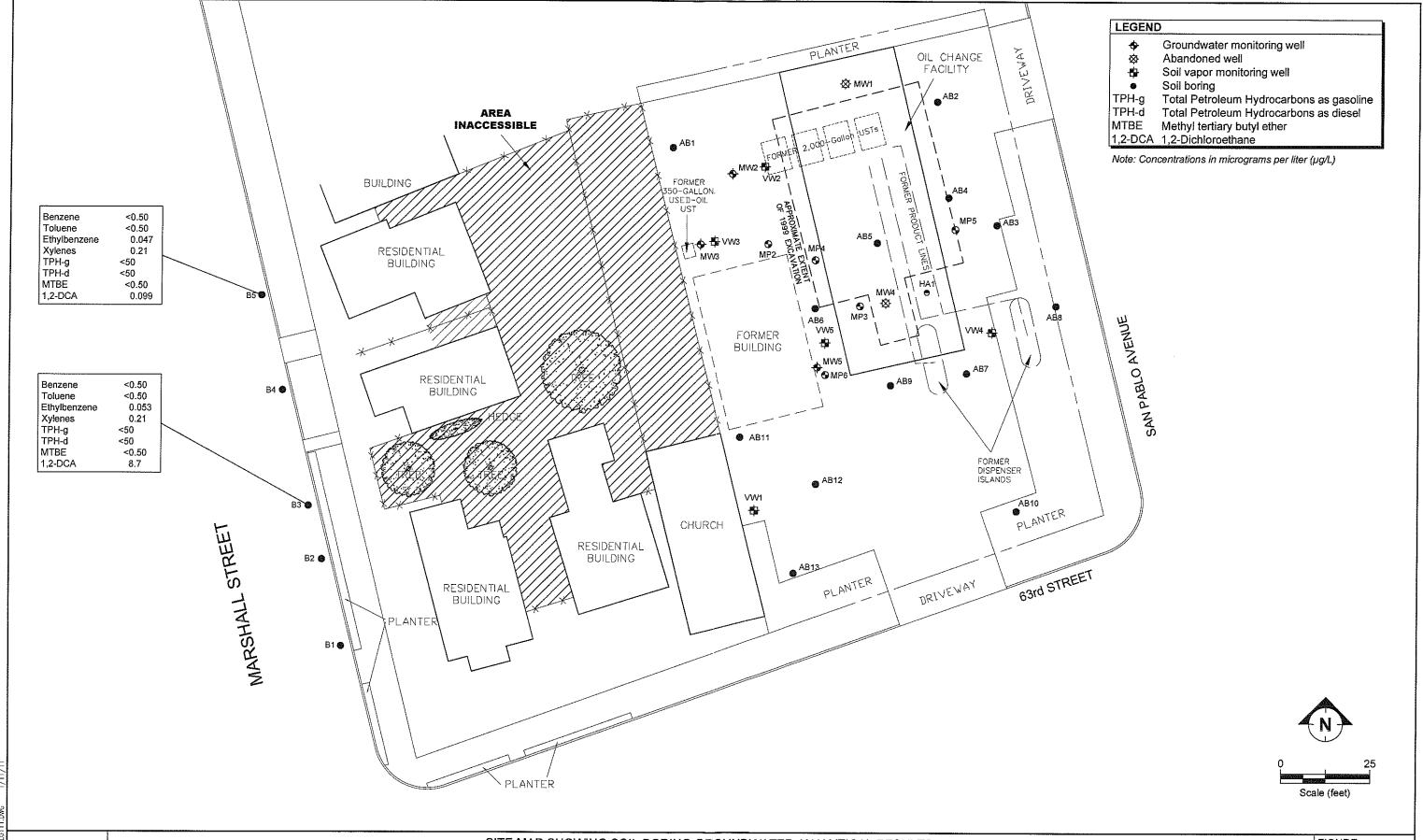






ETIC ENGINEERING SITE MAP SHOWING SOIL BORINGS AND MONITORING WELL LOCATIONS
FORMER MOBIL STATION 99105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA





SITE MAP SHOWING SOIL BORING GROUNDWATER ANALYTICAL RESULTS
FORMER MOBIL STATION 99105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA
19 NOVEMBER 2010

FIGURE:

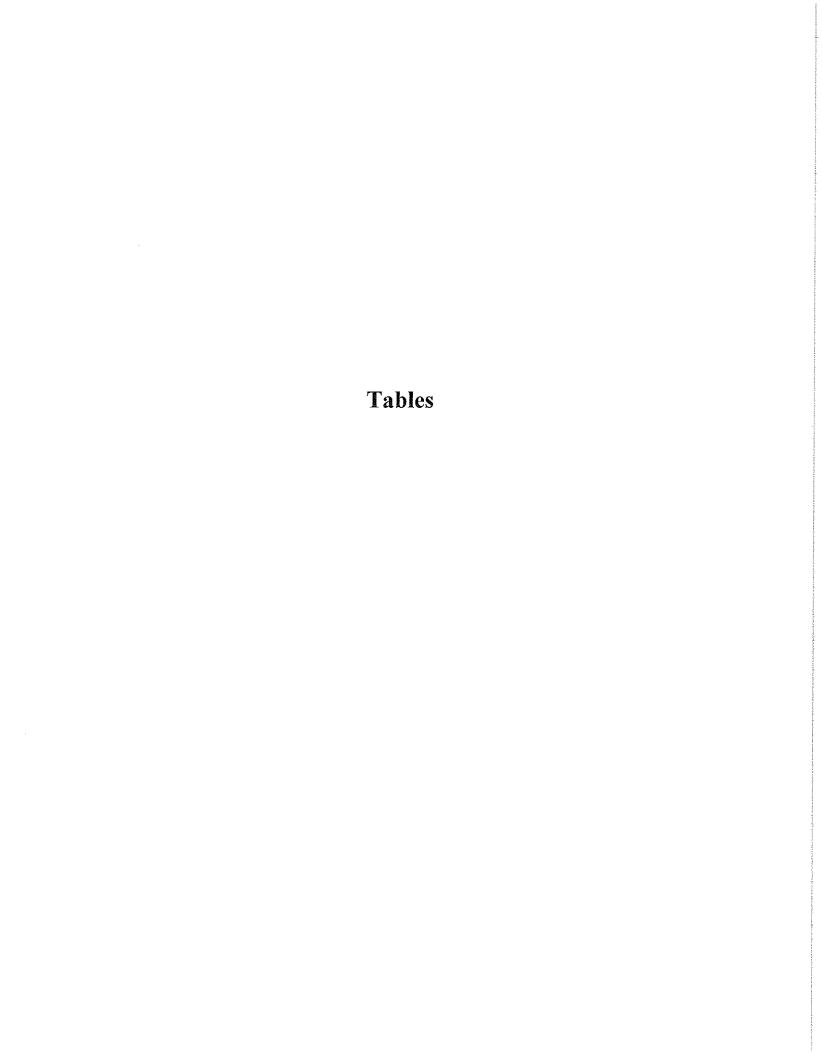


TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

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
MWI	ь	03/01/96		PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW2	a	03/01/96	42.24	PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW3	a	03/01/96	42.18	PVC	21.5	20	10	4	5 - 20	0.010	4.5 - 21.5	#12 Sand
MW4	b	03/01/96		PVC	26.5	25	10	4	5 - 25	0.010	4.5 - 21.5	#12 Sand
MW5	a	09/06/00	41.86	PVC	21.5	20	10	4	5 - 20	0.010	4 - 21.5	#2/12 Sand
VW1	a	11/01/10		SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW2	a	11/02/10	And the	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW3	a	11/01/10		SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW4	a	11/02/10	and bot	SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW5	a	11/02/10		SS	6	6	4	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand

Notes:

a Well surveyed on 12/15/10 by Morrow Surveying.

b Well destroyed.

PVC Polyvinyl chloride.

SS Stainless steel.

TOC Top of casing.

-- Information not available.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

							Conce	ntration (mg/	kg)				
Sample Number	Date	Sample Depth (feet bgs)	Benzene	Toluene	Ethyl- benzene	Xylene	ТРН-д	TPH-d	MTBE	MTBE	TOO	¥ .	Oxygenates and
	Date	(1001 053)	Denzenc	TOTACHE	Delizene	Aylene	IFFI-g	IPH-U	MIBE	(8260B)	TOG	Lead	Additives
MW1	03/01/96	5 - 5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	3.4				<2.5	
MW1	03/01/96	10 - 10.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	<1.0			~~	<2.5	
MW1	03/01/96	15 - 15.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	4.2				<2.5	~~
MW2	03/01/96	5 - 5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	2.4		***		<2.5	
MW2	03/01/96	10 - 10.5	1.2	1.4	2.7	14	220	57				<2.5	
MW2	03/01/96	15 - 15.5	< 0.0050	< 0.0050	0.0063	0.035	<1.0	<1.0				<2.5	
MW3	03/01/96	5.5 - 6	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	1.1	***		9	<2.5	01 Ma
MW3	03/01/96	10.5 - 11	0.032	0.43	0.65	0.93	53	72			290	<2.5	
MW3	03/01/96	15.5 - 16	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	<1.0		w aa	10	<2.5	
MW4	03/01/96	5.5 - 6	1.2	1	4.1	19	280	34				<2.5	
MW4	03/01/96	10.5 - 11	0.11	< 0.0050	0.11	0.093	6	7.7				<2.5	
MW4	03/01/96	15.5 - 16	0.076	0.023	0.083	0.07	6	2.1		** **		<2.5	
AB-1	03/05/98	5 - 6	ND	ND	ND	ND	ND		ND				
AB-2	03/05/98	4 - 5	ND	ND	ND	ND	ND		ND		No. 104		
AB-3	03/05/98	5.5	ND	ND	ND	ND	ND		ND			-98 NA	~~
AB-4	03/05/98	5 - 6	ND	ND	ND	ND	18		ND				
AB-5	03/05/98	3 - 4	ND	ND	0.65	ND	170		ND				
AB-6	03/05/98	5	ND	ND	ND	ND	230	, 	ND		-~		
AB-7	03/05/98	4-5	ND	ND	0.032	ND	19		ND			~~	48 AN
AB-8	03/05/98	5'	ND	ND	ND	ND	ND		ND				
AB-9	03/05/98	4	0.006	ND	0.028	ND	16		ND			W 100	
AB-10	03/05/98	4	ND	ND	ND	ND	ND	na se	ND			w w	

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

		<u>-</u>					Conce	ntration (mg	/kg)				
Sample	70	Sample Depth	D.	m 1	Ethyl-					МТВЕ			Oxygenates and
Number	Date	(feet bgs)	Benzene	Toluene	benzene	Xylene	ТРН-д	TPH-d	MTBE	(8260B)	TOG	Lead	Additives
AB-11	03/05/98	5 - 6	ND	ND	ND	ND	3.9	ww	ND		 -		NA NA
AB-12	03/16/98	5 - 6	ND	ND	ND	ND	ND	ni ea	ND				N/- Inter
AB-13	03/16/98	5 - 6	ND	ND	ND	ND	ND		ND				
MP-1	11/16/98	7.5	ND	0.007	0.013	ND	10		ND				
MP-2	11/16/98	7	ND	0.03	0.29	2.1	270		ND				
MP-2	11/16/98	10.5	0.08	ND	0.31	ND	140		0.15		us as		
MP-3	11/16/98	7.5	ND	0.1	1.6	ND	230		0.28		***		
MP-4	11/16/98	5	ND	ND	0.35	ND	120		0.19				
MP-4	11/16/98	10	ND	0.013	0.07	0.086	18		ND				
MP-5	11/16/98	6.5	ND	ND	0.015	0.022	6.4		ND				NAT SINE
MP-5	11/16/98	10.5	ND	ND	1.4	3	220		0.52				
MP-6	11/16/98	7	ND	ND	ND	ND	ND		ND				
MP-6	11/16/98	10	ND	ND	1.6	4.2	240		0.92	ND			
HA-1	01/25/00	5	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.50		< 0.025				wa sa
Comp-1	01/25/00	Composite	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.50		< 0.025			8.04	
B 1	11/17/10	5 - 5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.50	<5.0a		< 0.0050			ND
B1	11/18/10	9.5 - 10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.50	<5.0a		<0.0050			ND ND
B 1	11/18/10	14.5 - 15	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.50	<5.0a		< 0.0050			ND
B1	11/18/10	19.5 - 20	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND
B1	11/18/10	24.5 - 25	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050		*****	ND
B2	11/17/10	5 - 5.5	<0.00 2 0	<0.00E0	-0.0050	-0.00 <i>m</i> -0	-0.70	.w.o		0.00#2			
B2 B2	11/1//10	5 - 5.5 8.5 - 9	<0.0050 <0.0050	<0.0050 <0.0050	<0.0050 <0.0050	<0.0050 <0.0050	<0.50 <0.50	<5.0a		<0.0050	w.w		ND
B2	11/19/10	14.5 - 15	<0.0050	< 0.0050	<0.0050	<0.0050 <0.0050	<0.50 <0.50	<5.0a <5.0a		<0.0050			ND ND
1,241	11/1//10	14.5 - 15	,0.0030	~0.00.0U	~0.0050	~0.0050	~0.50	>5.0a		< 0.0050			ND

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

							Conce	ntration (mg	/kg)				
Sample		Sample Depth			Ethyl-					МТВЕ			Oxygenates and
Number	Date	(feet bgs)	Benzene	Toluene	benzene	Xylene	TPH-g	TPH-d	MTBE	(8260B)	TOG	Lead	Additives
B2	11/19/10	19.5 - 20	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	<5.0a		<0.0050		Lik	ND
В3	11/17/10	5 - 5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a	7.77	< 0.0050			ND
В3	11/18/10	9.5 - 10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND
В3	11/19/10	12 - 12.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a	400 500	< 0.0050			ND
В3	11/19/10	14.5 - 15	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND
В3	11/19/10	17 - 17.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND
В3	11/19/10	19.5 - 20	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050		~~	ND
B4	11/17/10	5 - 5.5	< 0.0050	< 0.0050	<0.0050	<0.0050	< 0.50	<5.0a		< 0.0050			ND
B4	11/18/10	9.5 - 10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND
B4	11/19/10	14.5 - 15	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050		~~	ND
B4	11/19/10	19.5 - 20	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a	w- 	< 0.0050			ND
B5	11/17/10	5 -5.5	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<0.50	<5.0a		<0.0050			ND
B5	11/18/10	9.5 - 10	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND ND
B5	11/19/10	14.5 - 15	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.50	<5.0a		< 0.0050			ND ND
B5	11/19/10	19.5 - 20	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	<5.0a		<0.0050	Maria.		ND

Notes: This table was adapted from the Risk-Based Corrective Action Report, Table 1, dated October 2002 by TRC.

Oxygenates and additives are defined as 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, and tertiary butyl alcohol.

a The sample extract was subjected to Silica Gel treatment prior to analysis.

bgs Below ground surface.

mg/kg Milligrams per kilogram.

MTBE Methyl tertiary butyl ether.

ND Not detected.

TOG Total Oil and Grease.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-g Total Petroleum Hydrocarbons as gasoline.

-- Not analyzed.

TABLE 3 GROUNDWATER GRAB SAMPLE ANALYTICAL RESULTS FOR TEMPORARY BORINGS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

					Conc	entrations (με	g/L)			
Sample Number	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)	Oxygenates and Additives
AB1	03/05/98	31	5.3	79	130	1,600		ND		***
AB2	03/05/98	ND	2.9	0.9	5.7	ND		ND		
AB3	03/05/98	680	100	1,500	2,300	6,800		230		
AB4	03/05/98	240	ND	260	720	8,500	** **	ND		
AB6	03/05/98	350	ND	310	100	12,000		ND		
AB9	03/05/98	57	12	44	93	1,000		ND		
AB10	03/05/98	3.0	1.2	3.2	2.8	200		ND	nd to	~~
ABH	03/05/98	ND	ND	ND	ND	ND		ND		
AB12	03/05/98	660	50	630	940	8,800		37		
AB13	03/05/98	11	0.8	10	15	210		ND		
HA1	01/25/00	<0.3	<0.3	< 0.3	< 0.6	<500		<5.0		
B1	11/18/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
B2	11/19/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
В3	11/19/10	<0.50	<0.50	0.053b	0.21b	< 50	<50c		<0.50	8.7a
B4	11/19/10	NS	NS	NS	NS	NS	NS	NS	NS	NS
B5	11/19/10	<0.50	<0.50	0.047ь	0.21b	<50	<50c		<0.50	0.099a,b

Notes: This table was adapted from the Risk-Based Corrective Action Report, Table 2, dated October 2002 by TRC.

TABLE 3 GROUNDWATER GRAB SAMPLE ANALYTICAL RESULTS FOR TEMPORARY BORINGS, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

				Conce	ntrations (µg	/L)			
Sample							MTBE (8020 or	МТВЕ	Oxygenates
Number	Date Benzene	Toluene	Ethylbenzene Tota		TPH-g	TPH-d	8021)	(8260)	and Additives
	Oxygenates and additive ther, and tertiary butyl	es are defined a alcohol.	s 1,2-dibromoethane,	1,2-dichloro	ethane, diisop	propyl ether, e	thyl tertiary buty	yl ether, tertia	ary amyl methyl
a	1,2-Dichloroethane.								
b	Analyte was detected a	a concentration	below the reporting	limit and abo	ve the labora	tory method d	etection limit. I	Reported valu	ie is estimated
c	The sample extract was	subjected to Sil	ica Gel treatment pric	or to analysis				toponton ran	io is commune.
MTBE ND NS TPH-d TPH-g	Methyl tertiary butyl et Not detected at or abov Not sampled. A ground Total Petroleum Hydro Total Petroleum Hydro	e laboratory rep water sample co carbons as diese	ould not be collected.						
 μg/L	Not measured/not analy Micrograms per liter.	zed.							

TABLE 4 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

		Elevation	Depth to		_				Concen	trations (μg/L)			
Well		TOC	Water	Groundwater	LPH					Ethyl-	Total	MTBE	MTBE
Number	Date	(feet)	(feet)	Elevation (feet)	Thickness	TPH-g	TPH-d	Benzene	Toluene	benzene	Xylenes	(8020/8021)	(8240/8260)
TWl	01/04/96		6.00		0.00	ND	700	ND	ND	ND	ND		***
WWI	01/04/96		3.00		0.00	ND		ND	ND	ND	ND	- -	99-44
MWI	03/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59		
MWI	05/21/96	32.79	5.64	27.15	0.00	ND	ND	ND	ND	ND	ND		78.40
MWI	08/13/96	32.79	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND		
MW1	11/08/96	32.79	10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	
MWI	01/31/97	32.79	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	
MWI	04/22/97	32.79	9.14	23.65	0.00	ND	ND	ND	ND	ND	ND	2.0 ND	ND
$MW1^a$	07/29/97	32.79	10.18	22.61	0.00	ND	60 ^e						
MW1 ^a	10/09/97							0.84	0.95	ND	1.6	36	
		32.79	10.46	22.33	0.00	ND	56 ^e	ND	ND	ND	ND	ND	
MW1 ^a	01/23/98	32.79	3.95	28.84	0.00	ND	33	ND	ND	ND	ND	ND	MR No.
MW1	04/22/98	32.79	5.33	27.46	0.00	ND	ND	ND	ND	ND	NĐ	ND	
MWI	07/21/98	32.79	9.17	23.62	0.00	ND		ND	ND	ND	ND	ND	
MWI	10/20/98	32.79	10.41	22.38	0.00	ND		ND	ND	ND	ND	ND	
MWI	01/27/99	32.79	5.51	27.28	0.00	ND		ND	ND	ND	ND	ND	~-
MW1	Destroyed d	uring constru	ction activiti	es in April 1999									
MW2	03/14/96	32.80	4.51	28.29	0.00	560	250	2.0	0.96	4.3	11		
MW2	05/21/96	32.80	5.65	27.15	0.00	730	560	5.1	1.4	4.3 6.7	5.9		
MW2	08/13/96	32.80	10.14	22.66	0.00	490							
MW2							380 ^b	25	3.5	7.2	13		••
	11/08/96	32.80	10.70	22.10	0.00	520	160 ^d	80	2.7	14	66	6.1	
MW2	01/31/97	32.80	3.84	28.96	0.00	74	130 ^b	ND	ND	ND	ND	ND	
MW2	04/22/97	32.80	9.61	23.19	0.00	260	430	2.7	ND	2.5	ND	ND	
MW2 ^a	07/29/97	32.80	10.53	22.27	0.00	320	150 ^d	28	1.2	10	ND	ND	
$MW2^a$	10/09/97	32.80	10.87	21.93	0.00	460	160 ^b	43	2.8	2.0	2.6	2.6	
$MW2^{a}$	01/23/98	32.80	3.75	29.05	0.00	ND	54	ND	ND	ND			
MW2	04/22/98	32.80	5.36	27.44	0.00	180	540	1.2	0.3		ND	ND	
MW2	07/21/98	32.80	9.55	23.25	0.00	80	J40	8.9		0.4	ND	ND	
MW2	10/20/98	32.80	10.75	22.05	0.00	50	~~	0.8	2.1	0.6	2.5	ND	
MW2	01/27/99	32.80	5.53	27.27	0.00	ND	~-		0.7	ND	8.0	ND	
MW2	07/27/99	32.80	6.20	26.60	0.00	ND ND		0.6	ND	ND	ND	ND	
MW2	12/08/99	32.80	9.98	22.82	0.00	ND ND	***	ND	0.6	ND	ND	ND	
MW2	10/25/00	39.34	11.30	28.04	0.00	<20		1.2	0.43	ND	ND	ND	
		W > 1.0 1	11.50	20.04	0.00	~20		2.0	0.59	0.46	1.3	< 0.30	

TABLE 4 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

		Elevation	Depth to		_				Concen	trations (μg/L)			
Well		TOC	Water	Groundwater	LPH					Ethyl-	Total	MTBE	MTBE
Number	Date	(feet)	(feet)	Elevation (feet)	Thickness	TPH-g	TPH-d	Benzene	Toluene	benzene	Xylenes	(8020/8021)	(8240/8260)
MANUA	01/15/01											· · · · · · · · · · · · · · · · · · ·	
MW2 MW2	01/15/01	39.34	9.41	29.93	0.00	<20		< 0.20	0.46	< 0.20	< 0.60	< 0.30	N Li
MW2	04/10/01	39.34	6.16	33.18	0.00	23		0.28	< 0.20	< 0.20	< 0.60	<1.0	
	07/24/01	39.34	10.70	28.64	0.00	<50		< 0.20	0.93	< 0.20	0.82	< 0.30	
MW2 MW2	11/27/01	39.34	10.15	29.19	0.00	<50		1.2	0.22	< 0.20	< 0.60	< 0.30	
MW2	01/18/02	41.99	5.46	36.53	0.00	<50.0		< 0.50	< 0.50	< 0.50	< 0.50	1.40	
MW2	04/10/02	41.99	6.48	35.51	0.00	<50.0		< 0.50	< 0.50	< 0.50	< 0.50	1.80	***
MW2	07/12/02	41.99	10.45	31.54	0.00	< 50.0		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW2	10/14/02	41.99	11.46	30.53	0.00	<50.0		< 0.5	4.1	0.6	4.0	< 0.5	
	01/20/03	41.99	5.39	36.60	0.00	< 50.0	***	< 0.50	< 0.50	< 0.50	< 0.50	0.6	
MW2	04/28/03	41.99	5.87	36.12	0.00	< 50.0		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
MW2	07/15/03	41.99	10.31	31.68	0.00	<50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	w
MW2	10/08/03	41.99	11.20	30.79	0.00	< 50	100-146	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW2	01/15/04	41.99	5.36	36.63	0.00	63.3		0.70	< 0.5	< 0.5	< 0.5	1.0	
MW2	09/17/10	41.99	10.72	31.27	0.00	<50	< 50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
1411/2	00 (1.4.0.4												0.00
MW3	03/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520		And had
MW3	05/21/96	32.80	10.16	22.64	0.00	8,500	2,800	710	110	440	1,700		
MW3	08/13/96	32.80	11.18	21.62	0.00	5,000	2,300°	430	ND	200	360		pp-
MW3	11/08/96	32.80	11.51	21.29	0.00	8,400	2,900 ^b	890	82	790	1,700	73	
MW3	01/31/97	32.80	7.90	24.90	0.00	16,000	7,500 ^b	660					ND
MW3	04/22/97	32.80	10.64	22.16	0.00	8,000	2,700	340	85	960	1,800	ND	
MW3 ^a	07/29/97	32.80	11.36						33	400	490	200	ND
MW3 ^a				21.44	0.00	9,800	2,300 ^b	330	ND	530	530	ND	-~
	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600 ^b	300	ND	430	460	270	ND
MW3 ^a	01/23/98	32.80	7.50	25.30	0.00	6,100	2,300	190	23	330	320	ND	
MW3	04/22/98	32.80	6.81	25.99	0.00	4,900	2,600	140	12	250	230	ND	ND
MW3	07/21/98	32.80	10.65	22.15	0.00	7,400		250	16	400	370	74	ND
MW3	10/20/98	32.80	11.57	21.23	0.00	6,700		200	18	350	350	ND	ND
MW3	01/27/99	32.80	9.11	23.69	0.00	3,100		74	4	94	39	13	
MW3	07/27/99	32.80	7.27	25.53	0.00	8,900		170	21	360	440	ND	<u></u>
MW3	12/08/99	32.80	10.63	22.17	0.00	4,800		94	13	170	210	ND	
MW3	10/25/00	39.27	12.08	27.19	0.00	3,800		63	2.9	100	65	<50	<5
MW3	01/15/01	39.27	10.29	28.98	0.00	4,300		76	9.5	47	76	<5.0	
MW3	04/10/01	39.27	10.11	29.16	0.00	2,700	**-	55	4.4	100	37	<20	
MW3	07/24/01	39.27	11.57	27.70	0.00	3,100		110	6.9	110	81	<1.0	
MW3	11/27/01	39.27	10.93	28.34	0.00	2,400		47	8.9	25	35	<0.30	
MW3	01/18/02	41.71	9.47	32.24	0.00	1,130		15.3	2.30	42.0	24.6	13.6	
											0	12.0	

TABLE 4 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

		Elevation	Depth to						Concen	trations (µg/L)			
Well	_	TOC	Water	Groundwater	LPH					Ethyl-	Total	MTBE	MTBE
Number	Date	(feet)	(feet)	Elevation (feet)	Thickness	TPH-g	TPH-d	Benzene	Toluene	benzene	Xylenes	(8020/8021)	(8240/8260)
3.433.43	0.4(1.0.10.5												
MW3	04/10/02	41.71	10.14	31.57	0.00	916		35.1	3.00	22.5	13.8	11.2	
MW3	07/12/02	41.71	11.34	30.37	0.00	2,330	4-	60.5	2.90	39.8	50.9	15.4	
MW3	10/14/02	41.71	12.10	29.61	0.00	2,550		36.9	3.8	20.3	48.0	< 0.5	
MW3	01/20/03	41.71	9.20	32.51	0.00	1,750		20.4	304.0	60.7	22.0	10.7	
MW3	04/28/03	41.71	9.37	32.34	0.00	2,730		10.0	2.7	42.7	20.1	11.2	
MW3	07/15/03	41.71	11.15	30.56	0.00	1,790	***	68.8	3.6	39.0	44.7	5.6	
MW3	10/08/03	41.71	11.89	29.82	0.00	1,320		35.1	4.0	23.6	31.8	7.1	
MW3	01/15/04	41.71	9.16	32.55	0.00	791		24.4	1.3	40.1	14.7	3,4	
MW3	09/17/10	41.71	11.46	30.25	0.00	2,500	99	2.6	0.31	1.8	1.8	3.4	<0.50
MW4	03/14/96	31.50	4.92	26.58	0.00	12,000	2 500	2 200					
MW4	05/21/96	31.50	8.60	22.90	0.00	11,000	3,500	2,200	140	880	2,000		
MW4	08/13/96	31.50	10.02	21.50		*	4,200	1,700	ND	930	470	***	w. w.
MW4	11/08/96	31.50	10.28	21.33	0.02				*-	~~			
MW4	01/31/97				0.15		,						
		31.50	7.88	23.62	0.00	23,000	8,200 ^b	980	68	1,100	1,400	ND	de Va
MW4	04/22/97	31.50	7.40	24.10	0.00	8,800	4,500	950	ND	610	130	ND	
MW4	07/29/97	31.50	9.85	21.74	0.12								
MW4	10/09/97	31.50	10.35	21.38	0.30			***					
MW4	01/23/98	31.50	4.68	27.51	0.92		***						No. bas
MW4	04/22/98	31.50	6.39	25.22	0.14				54 ha				
MW4	07/21/98	31.50	7.10	24.55	0.20							w=	
MW4	10/20/98	31.50	9.03	22.60	0.17								
MW4	01/27/99	31.50	5.37	26.18	0.07			***			~-		
MW4	Destroyed d	uring construc	ction activitie	es in April 1999									av va
MW5	10/25/00	39.18	10.92	28.26	0.00	2,500		79	3.8	66	<20	<20	
MW5	01/15/01	39.18	8.32	30.86	0.00	3,900		120	7.9	280	52	<5.0	
MW5	04/10/01	39.18	7.21	31.97	0.00	8,000		280	4.4	410	100	<50	
MW5	07/24/01	39.18	9.54	29.64	0.00	7,000		360	7.4	380	67	<1.0	<5
MW5	11/27/01	39.18	8.84	30.34	0.00	5,000		64	11	340	52		
MW5	01/18/02	41.59	6.52	35.07	0.00	6,330		99.1	2.30	103	19.6	8.9	<2
MW5	04/10/02	41.59	7.20	34.39	0.00	2,140		275	8.00	183		21.8	
MW5	07/12/02	41.59	8.83	32.76	0.00	3,940	~ _	350	< 0.50		24.5	<2.50	wa.
MW5	10/14/02	41.59	10.74	30.85	0.00	4,040		98.5		268	14	20	< 0.50
MW5	01/20/03	41.59	6.45	35.14	0.00	7,660		90.3 421	9.0	169	29.0	<2.5	
MW5	04/28/03	41.59	6.68	34.91	0.00	7,510		403	10.0	743	96.0	59	< 0.50
MW5	07/15/03	41.59	8.68	32.91	0.00	6,080			5.5	524	50.5	47	< 0.50
			2.00	32.71	0.00	0,000		406	19.8	412	34.7	52.9	<2.5

TABLE 4 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

*** 11		Elevation	Depth to		-				Concen	trations (µg/L)			
Well Number	Date	TOC (feet)	Water (feet)	Groundwater Elevation (feet)	LPH Thickness	ТРН-g	TPH-d	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8020/8021)	MTBE (8240/8260)
MW5	10/08/03	41.59	10.56	31.03	0.00	2,460		160	12.8	173	31.7	54.3	-O. F
MW5	01/15/04	41.59	6.56	35.03	0.00	4,630		181	6.0	312	38.5	34.3 37.4	<0.5 <0.5
MW5	09/17/10	41.59	9.99	31.60	0.00	6,600	5,700	19	<5.0	16	1.4 ^f	W.	<5.0

 production responses,	Groundwater Monkoring,	Tima Quarter	2010, ETIC.

a W	ell sampled/	I using no-purge method.	
-----	--------------	--------------------------	--

b Diesel and unidentified hydrocarbons <C15.

LPH Liquid-phase hydrocarbons. 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.

Not measured/not analyzed.

μg/L Micrograms per liter.

c Diesel and unidentified hydrocarbons <C15>C25.

d Diesel and unidentified hydrocarbons >C20.

e Unidentified hydrocarbons >C18.

f Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.

TABLE 5 GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 99105, 6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

	<u>-</u>				Concentrations (µg/	L)		
Well Number	Date	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	1,2-DBA
MW2	09/17/10	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50
MW3	09/17/10	<0.50	0.17 ^a	<0.50	< 0.50	9.8ª	1.9	<0.50
MW5	09/17/10	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0
Notes:	All analytes were and Adapted from Rep	ort of Groundwat	er Monitoring, Th			method detection	limit. Reported va	lue is estimated.
1,2-DBA 1,2-DCA DIPE ETBE MTBE TAME TBA	1,2-Dibromoethan 1,2-Dichloroethan Diisopropyl ether. Ethyl tertiary buty Methyl tertiary bu Tertiary amyl meth Tertiary butyl alco	e. l ether. tyl ether. hyl ether.	omide (EDB).					

Appendix A Regulatory Correspondence

Hamidou Barry

⊏rom:

Hamidou Barry

ent:

Tuesday, October 26, 2010 3:31 PM

To:

'barbara.jakub@acqov.org'

Cc:

Bryan Campbell; 'jennifer.c.sedlachek@exxonmobil.com'; Christa Marting; Erik Appel; Jason

Lear

Subject:

Former Mobil Station 99105 (Case No. RO0000445): Onsite Vapor Well Installation and

Offsite Soil Borings

Tracking:

Recipient

Read

'barbara.jakub@acgov.org'

Bryan Campbell

Read: 10/26/2010 3:42 PM

'jennifer.c.sedlachek@exxonmobil.com'

Christa Marting

Read: 10/26/2010 3:32 PM

Erik Appel

Read: 10/26/2010 3:49 PM

Jason Leary Read: 10/26/2010 4:40 PM

As a follow up to our telephone conversation on 31 August 2010, I am sending this email to inform you of the following schedule for the installation/sampling the onsite soil vapor monitoring wells, and the advancement of the offsite soil borings at former Mobil Station 99105 (Case No. RO0000445), located at 6301 San Pablo Avenue, Oakland, CA.

- 1 and 2 November 2010: Installation of 5 onsite soil vapor monitoring wells
- 9 November 2010: Soil vapor sampling
- 17 through 19 November 2010: Advancement of 5 offsite soil borings (Geoprobe method)

The reports of the investigations will be submitted to the Alameda County Health Care Services Agency.

Please contact us if you have any questions.

Thank you.

Hamidou Barry

hbarry@eticeng.com ETIC Engineering, Inc. 2285 Morello Ave. Pleasant Hill, CA 94523 Tel: 925-602-4710 x 34 Fax: 925-602-4720

Fax: 925-602-4720 Cell: 925-354-8275 www.eticeng.com



Please consider the environment before printing this e-mail.



20 July 2010

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

Subject:

Implementation of Vapor Intrusion Assessment and Well Installation Work

Plan and Work Plan Addendum

Former Mobil Station 99105, 6301 San Pablo Avenue, Oakland, California Fuel Leak Case No. RO0000445 / GeoTracker Global ID T0600101855

Dear Ms. Jakub:

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

The scope of work outlined in these documents includes vapor intrusion assessment with the collection of soil vapor samples following the installation of soil vapor wells, the advancement of offsite borings and the redevelopment and sampling of the existing groundwater monitoring 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 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 Vapor Intrusion Assessment and Well Installation Work Plan dated December 2008 and Work Plan Addendum dated October 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,

Bryan Campbell Program Manager

cc: Ms. Jennifer Sedlachek, ExxonMobil Environmental Services Company

Ms. Connie Lam, Property Owner

Appendix B

Permits

CITY OF OAKLAND Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# X1001465

Job Site 6301 SAN PABLO AV

Parcel# 016 -1455-010-00

Descr Soil boring(s) on Marshall St near 63rd Street.

No impact on traffic lane allowed.

Call PWA INSPECTION prior to start: 510-238-3651.

Work Type EXCAVATION-PRIVATE P

Permit Issued 11/15/10

USA #

Util Co. Job # 99105

Util Fund #:

Acctg#:

Lic# --License Classes--Applent Phone#

Owner ON DAN & LAM NATHAN ETAL

Contractor CASCADE DRILLING L P

Χ

(916)638-1169 938110 C57

Arch/Engr

Agent ETIC ENG/ Y MAMIYA X37

(925) 602-4710

Applic Addr 3632 OMEC CIR, RANCHO CORDOVA, CA	A, 95742-7	730			
JOB SITE Tomic 11th 1 09105		\$71.00 \$.00 \$.00	TOTAL FEES Applic Process Gen Plan Other	\$.00	
	it Issued	Ву	\$	_ Date:	
	Finaled	Ву		_ Date:	
		M			
SS S				The first of the second of the	
ADDRESS:		MANUSINE V		Contracting sections	
	Action could be a control of the could be a control of the country				

REPORTATION

Lender.

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Permit No. X1001465 Parcel #: 016 -1455-010-00 Project Address: 6301 SAN PABLO AV

CARRIER: POLICY NO.

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Address

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Workers' Compensation Declaration
I hereby affirm under penalty of perjury one of the following declarations:
[] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit: 3

											_
PRINT NAME	Signature	[]	Contractor,	or	[]	Agent	D	ate	

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: 10/22/2010 By jamesy

Permit Numbers: W2010-0780

Permits Valid from 11/17/2010 to 11/19/2010

Application Id:

1287182342209

Site Location:

Former Mobil Station 99105.

City of Project Site: Oakland

6301 San Pablo Avenue, Oakland, CA

Completion Date: 11/19/2010

Project Start Date: Assigned Inspector: 11/17/2010

Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Phone: 925-602-4710 x24

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

Property Owner:

City of Oakland

Phone: 510-238-3443

250 Frank H. Ogawa Plaza, Oakland, CA 94612

Phone: 510-547-8196

Client:

Applicant:

ExxonMobil Environmental Services Agency 4096 Piedmont Avenue, #194, Oakland, CA 94611

Contact: Hamidou Barry Phone: 925-602-4710 x34 Cell: --

Total Due:

\$265.00

Receipt Number: WR2010-0361

Total Amount Paid:

\$265,00

Payer Name: ETIC Engineering, Inc. Paid By: CHECK

PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 5 Boreholes

Driller: Cascade Drilling, L.P. - Lic #: 938110 - Method: DP

Work Total: \$265.00

Specifications

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2010-	10/22/2010	02/15/2011	5	1.50 in.	25.00 ft
0700					

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact 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.
- 5. 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,

Alameda County Public Works Agency - Water Resources Well Permit

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.

- 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Appendix C

Field Protocols

PROTOCOLS FOR INSTALLATION, SAMPLING, AND ABANDONMENT OF DUAL TUBE DIRECT PUSH BORING

SUBSURFACE CLEARANCE SURVEY PROCEDURES

Prior to drilling, the proposed location 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 will mark underground utilities in the delineated areas using standard color code identifiers.

Once USA has marked the site, the proposed borehole location is 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, the 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 the boring location.

SOIL CORING PROCEDURES

Soil and groundwater samples are collected for lithologic and chemical analysis using a direct driven dual tube soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. Two nested sampling rods are driven simultaneously: small-diameter inner sampling rods are used to obtain and retrieve the soil cores; the larger diameter (approximately 2-inch OD) outer rods serve as temporary drive casing.

As the rods are advanced, soil is driven into an approximately 1.5-inch-diameter sample barrel that is attached to the end of the inner rods. Soil samples are collected in sleeves inside the sample barrel as both rods are advanced. The use of outer rods prevents sloughing of the formation while the inner rods are withdrawn from the hole. This ensures that the drive sampler will always be sampling soil from the desired interval, rather than potentially contaminated soil that has sloughed in from higher up in the hole.

After being driven 3 feet, the inner rods are removed from the borehole. The sleeves containing the soil samples are removed from the inner sample barrel, and are then preserved for chemical analyses or used for lithologic identification. The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. This process is repeated until the desired depth is reached.

When the sampler is retrieved, either the lowermost or middle sample liner is removed and the ends of the tube are covered with aluminum foil or a Teflon liner and sealed with plastic caps. Soil from

one of the liners is placed in a plastic bag. The soil is scanned with a flame ionization detector (FID) or a photo-ionization detector (PID).

All drive casing, inner sample barrels, inner rods, and tools are cleaned with Alconox or equivalent detergent and deionized water. All rinsate from the cleaning is contained in 55-gallon drums at the project site.

GROUNDWATER SAMPLING PROCEDURES

After the targeted water-bearing zone has been penetrated, the sample barrel and inner rods are removed from the borehole, and the drive casing is pulled up approximately 0.5 to 2 feet to allow groundwater to flow into the borehole. Small-diameter well casing with 0.010-inch slotted well screen or equivalent may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole inside the drive casing. The drive casing is then pulled up to expose the slotted interval of the PVC. Groundwater samples are then collected with a bailer, peristaltic pump, bladder pump or inertial pump until adequate sample volume is obtained.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

BOREHOLE GROUTING

On completion of soil and water sampling, borehole is abandoned with a neat cement grout. The grout is pumped through a grouting tube positioned at the bottom of the borehole prior to withdrawing the outer rods.

Appendix D
Soil Boring Logs

	MAJOR DIVIS	IONS			TYPICAL NAMES
		Clean gravels with	GW		Well graded gravels with or without sand, little or no fines.
S	GRAVELS more than half	little or no fines	GP		Poorly graded gravels with or without sand, little or no fines.
COARSE-GRAINED SOILS More than half is coarser than No. 200 sieve	coarse fraction is larger than No. 4 sieve size	Gravels with	GM		Silty gravels, silty gravels with sand.
AINED lalf is co 200 sie		over 12% fines	GC		Clayey gravels, clayey gravels with sand.
RSE-GR/ re than ha than No. 2		Clean sands with	sw		Well graded sands with or without gravel, little or no fines.
OARSI More th	SANDS more than half	little or no fines	SP		Poorly graded sands with or without gravels, little or no fines.
ິ້	coarse fraction is smaller than No. 4 sieve size	Sands with	SM		Silty sands with or without gravel.
		over 12% fines	sc		Clayey sands with or without gravel.
			ML		Inorganic silts and very fine sands, rock flour, silts with sands and gravels.
OILS finer eve	SILTS AN liquid limit 5		CL		Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.
NED S half is 200 sié			OL		Organic silts or clays of low plasticity.
FINE-GRAINED SOILS More than half is finer than No. 200 sieve			мн		Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
FINE- More tha	SILTS AN liquid limit grea		СН		Inorganic clays of high plasticity, fat clays
		- and Madelin	ОН		Organic clays or clays of medium to high plasticity.
	HIGHLY ORGANIC	SOILS	PT	7 77 77 77 77 7	Peat and other highly organic soils.
	SYMBOL	S			DRILL LOG ROCK TYPES
⊼ ∑	First Encountered Ground Gauged Groundwater Le	Samples			Limestone
	Portland Cement	Air			Dolomite
	Blank Casing Bentonite Pellets	Soil			Mudstone
	Cities Barb	Water			Siltstone
	Filter Pack	Open		\(\frac{1}{2}\)\(\fra	Sandstone
	Screened Casing	Hole Hole	らか	ジュッ	Igneous



				·					CLIENT		SITE	NUMBER	11	OCATION	
		منجد مدن							ExxonMobil			99105		6301 San P	ahlo Ave
		▶ El												Oakland, C	California
LOG	OF SC	ENGINE OIL BO	ering RING:			В	1		DRILLING AND SAMPLING METHOD	S be se se	elow groui ampler. Di	nd surface using filled using a Ge ling a dual-tube	; 2-inch diame oProbe direct	urface. Soil samp ster by 6-inch long -push rig. Continu ing a 5-ft long san	hand driven ously
COO	RDINA	ATES: 1	N2135	284.3	ì ·F∣	ദവം	46139	2	WATER LEVEL		NA				
	/ATIO					-	10100	_	TIME	-				START TIME	FINISH TIME
CAS	NG BE	ELOW	SURF	ACE:					DATE					1000	0930
1	LING (NSE N						Illing		REFERENCE					DATE 11/17/10	DATE 11/18/10
	HES	1		7-930	1 10	ر اي		s	URFACE CONDITIONS					1	1 1 1 1 0 1 0
N N	RECOVER	BLOWS / 6" SAMPLER	OVA READING	E	MPLE	AMPLE	HE HE					Asphalt			
DRIVEN	REC	BLO	OVA REA	DEPTH (feet)	AIR SAMPLE	SOILS	GRAPHIC LOG	D	ESCRIPTION BY:		Yu	ko Mamiya			
				0				,	ASPHALT from surface t	to 6 i	nches b	elow ground s	urface.		
							AC/A	3	AGGREGATE BASE from	n 6 ir	nches to	1 foot below	around surf	ace	
				.1-											
				,					CLAY WITH SILT - olive	Drow	m (∠.5 Y	4/3), very sun	r, low plastic	city, moist.	
				2											
				3_											
							CL								
				4											
						-	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>								
				5—											
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6	6														
				6-		_									
								4	II TARTI OLAV		:-1	(OLEV 4 1/4)	2010 - 411		
				_				ח	ILT WITH CLAY - dark g on-plastic, moist.	reen	ıısı gray	(GLEY 1 4/1	∪GY) SOft, le	ow plasticity to	
				7—			ML								
			0.0			-									
				8-			17777	_	LAYEY SAND - dark gre	eniel	h arev (f	SI FY1 4/100	Y) madium	dense fine	
24	24	;						91	rained, very moist to wel	 	. Aidy (JEE 1 1 4/ 10G	i), mediulii	donse, mie	
~4	24														
				9			//sc//								
			0.5			\									
				10		X.									

							CLIENT	SITE NUMBER	LOCATION
		ENGINE	C				ExxonMobil	99105	6301 San Pablo Ave. Oakland, California
DRIVEN	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	WATER SAMPLE SOIL SAMPLE	GRAPHIC LOG	LOG OF SOIL BORING:	B1	,
60	60		02	11		CL SM:	SILTY CLAY WITH SAND - dar plasticity, medium grained san slightly moist. CLAY WITH SOME GRAVEL plasticity, subangular gravels plasticity, subangular gravels medium dense, fine grained samoist. CLAY WITH SILT - dark yellow plasticity, moist.	brown (10YR 4/6), medium dark yellowish brown (10Y up to 0.25 inch in diameter, of the control o	dense, fine grained, R 4/6), stiff, low very moist. vn (10YR 4/6), to 0.5 inch in diameter,
LOG OF SOIL BORING 99105 GPJ ETIC.GDT 3/16/11	36		0.3	17— 18— 20— 21—		S S	- expansive clay.		

							CLIENT	SITE NUMBER	LOCATION
		ENGINE	C				ExxonMobil	99105	6301 San Pablo Ave. Oakland, California
DRIVEN	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORIN	G: B1	
24	24			23					
			0.4	24		CL			
				25			Borehole terminated at 25 f with neat cement.	eet below ground surface. B	orehole filled and sealed
	-			26—					
				27-					
				28-					
				29					
				30—					
				31-					
				32—					
				33—					
				34—				·	
				35					

									CLIENT		SITE	NUMBER	L	OCATION	C Styll Silverstance
		≽ FT	IC						ExxonMobil			99105		3301 San P Oakland, C	
LOG	OF SO	ENGINE	eering)RING:	:		В	2		DRILLING AND SAMPLING METHOD	S bel sar sar	ow groui npier. Dr	nd surface using tilled using a Ge ing a dual-tube :	elow ground su 2-inch diamet oProbe direct-r	orface. Soil samp er by 6-inch long oush rig. Continu ng a 5-ft long san	led at 5 feet hand driven ously
coo	RDINA	ATES:	N2135	308 4	ı ·F	60	46133	7	WATER LEVEL		۱A				
ELEV	/ATIO	N TOP	OF C	ASIN			10100.	•	TIME					START TIME	FINISH TIME
		ELOW							DATE					1115	0945
		COMP. IUMBE					lling		REFERENCE					DATE 11/17/10	DATE 11/19/10
	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	E _	MPLE	AMPLE	GRAPHIC LOG	SL	PRFACE CONDITIONS			Asphalt			I
DRIVEN	REC	BLO	OVA	DEPTH (feet)	AIR SAM	SOILS	GRA	DE	SCRIPTION BY:		Yu	ko Mamiya			
					$\left\ \cdot \right\ $			А	SPHALT from surface	to 6 in	ches be	elow ground s	urface.		
							-AC/AB	Α	GGREGATE BASE from	n 6 ind	ches to	1 foot below	ground surfa	ICe.	
				1					LAY WITH SILT - olive noist.	brown	(2.5Y	4/3), very stiff	f, low to med	ium plasticity,	
				2—											
,						$\ \cdot\ $									
				3—											
		-													
	· · · · · · · · · · · · · · · · · · ·			4—											
			:												
				5		V									
6	6							- F	plant roots up to 1 inch	long.					
.				6		-									
				7											
			0.0												
			0.0					- b	ecoming mottled olive	brown	and da	ırk greenish a	гау.		
				8				SII	LTY CLAY WITH SAND e grained sand, very m	- olive	e brown		-	low plasticity,	
12	12					\bigvee			•						
			-0.4-	9—		/\									
								- b	ecoming dark yellowish	brow	n (10Y!	₹ 4/6\. soft. m	noist.		
				10					g water joinoistor		(1911	5), 5014, 11			

								CLIENT		SITE NUMBER	LOCATION
		ENGINE	C					ExxonMobil		99105	6301 San Pablo Ave. Oakland, California
DRIVEN	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	SOIL SAMPLE	GRAPHIC LOG	LOG OF SOIL BOR	ING:	B2	<u> </u>
1.0.6 OF SOIL BORING 99/105.GPJ ETIC.GDT 3/16/11	36			11— 12— 13— 14— 15— 16— 20— 21— 22—			CL CL	SANDY CLAY WITH SILThard, fow plasticity, fine to diameter, slightly moist. - becoming very moist. - increasing clay content, CLAY WITH SOME SILT flow to medium plasticity,	T AND to coar hard, - dark slighti	n (2.5Y 3/3), soft, low plast GRAVEL - dark yellowish se grained sand, subangu	brown (10YR 4/6), far gravel up to 0.5 inch in 6), very stiff to hard,

							CLIENT	SITE	NUMBER	LC	OCATION	•
	SET						ExxonMobil		99105		301 San P Oakland, C	
LOG OF S	ENGINE OIL BO	ering RING:			33	}	DRILLING AND SAMPLING METHOD	S below grour sampler. Dr	eared to 8 feet bel nd surface using 2 illed using a Geol ing a dual-tube sy rs.	2-inch diamete Probe direct-p	er by 6-inch long rush rig. Continu	hand driven ously
COORDIN	ATES: I	N2135	323.3	:E60	046	3129.8	WATER LEVEL		y 8.45			
ELEVATIO	N TOP	OF C	ASING				TIME	0816	1218		START TIME	TIME 1030
CASING B DRILLING				le D	rilli	na	DATE	11/19/10	11/19/10		1300 DATE	DATE
LICENSE I					111		REFERENCE	GS	GS		11/17/10	11/19/
DRIVEN SHOW	BLOWS / 6" SAMPLER	OVA READING	TH ()	AMPLE ER SAMPLE SAMPLE	VERED	PHIC	SURFACE CONDITIONS		Asphalt			
DRIN REC	BLO	NEA REA	DEPTH (feet)	WATER S	A S	GR/ LOG	DESCRIPTION BY:	Yu	ko Mamiya			
			0-		100000000000000000000000000000000000000		ASPHALT from surface	to 6 inches be	elow ground su	ırface.		
						AC/AB	AGGREGATE BASE from	m 6 inches to	1 foot below g	round surfa	ce.	
			1-				CLAY WITH SILT - olive moist.	brown (2.5Y	4/3), very stiff,	low to med	ium plasticity,	
			2_									
			2									
			3				- with trace fine grained	sand, soft.	·			
			4-									
			5-				- diminishing sand conte	nt, very stiff, r	moist.			
6 6						CL//						
			6									
					H							
			7—									
			8				- increasing sand conten	t, very moist.				
			<u>Ā</u>				•	,				
-1818-			9—									
		0.3	立									

								CLIENT		SITE NUMBER	LOCATION
		ENGINE	C ERING					ExxonMobi		99105	6301 San Pablo Ave. Oakland, California
DRIVEN	RECOVER SAH	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BOF	RING:	B3	
30	30			11—			CL CL	grained sand, very moi - increasing silt content CLAY WITH SILT - light plasticity, moist.	, moist.	ve brown (2.5Y 4/3), soft, orown (2.5Y 4/3), medium prown (2.5Y 3/3), soft, low	stiff, low to medium
30	30			15			ML	- increasing clay conten SILTY SAND WITH CLA grained, very moist to w	Y - dar	k olive brown (2.5Y 3/3), n	nedium dense, fine
30	30			17—			CL	diameter, moist to very i	noist. ' - dark	AVEL - olive brown (2.5Y) I sand, subangular gravel yellowish brown (10YR 4/4	
LOG OF SOIL BORING 99105.GPJ ETIC.GDT 3/21/11				20-			ŚĆĹ	Borehole terminated at 2 with neat cement.	0 feet t	pelow ground surface. Bor	ehole filled and sealed

										CLIENT		SITE	NUMBER		LOCATION	
		_{&} FT	10							ExxonMobil			99105		6301 San P Oakland, C	
LOG	OF S	ENGIN	EERING ORING:				34	Ļ		DRILLING AND SAMPLING METHOD	S	below grou sampler. D	nd surface using rilled using a Ge sing a dual-tube	g 2-inch diame eoProbe direct	surface. Soil samp eter by 6-inch long -push rig. Continu ling a 5-ft long san	led at 5 feet hand driven ously
COO	RDINA	ATFS:	N2135	355 4	l ·F	=60)4F	S122 4	4	WATER LEVEL	Ā	NA				
ELEV	ATIO	N TOF	OF C	ASINO			, , ,	, m.	•	TIME					START TIME	FINISH TIME
			SURF			_	-111-			DATE					1400	1045
			ANY: (ER: C5				rilli	ing		REFERENCE					DATE 11/17/10	DATE 11/19/10
	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	II.	SAMPLE	3 SAMPLE AMPI E	/ERED	GRAPHIC LOG	su	RFACE CONDITIONS	.1		Asphalt	1		
DRIVEN	REC	BLO	REA	DEPTH (feet)	AIR SA	WATE	RECO	GRA	DE	SCRIPTION BY:		Υι	ıko Mamiya			
				0-					A	SPHALT from surface	to 6	inches b	elow ground	surface.		
								AC/AB	A	GGREGATE BASE from	m 6	inches to	1 foot below	ground surf	face.	
				1-				CL	Si	ILTY CLAY - black (2.5	iY 2	.5/1), sof	t, low to medi	um plasticity	y, moist.	
									CI	LAY WITH SOME SILT	' - ol	live (5Y 4	/3), hard, low	to medium	plasticity, mois	
	2—					- t	pecoming slightly mois	t, tra	ace fine g	rained sand.						
				3—				CL	S.A co	ANDY CLAY - dark gre parse grained sand, sli	enis ghtly	th gray (G / moist to	GLEY 4/10GY moist.), soft, low p	plasticity, fine to	
				4						_AY WITH SOME SILT oist.	- ol	ive (5Y 4/	3), very stiff,	low to medi	um plasticity,	
6	6			5		X										
				6				CL								
				7												
			0.0													
24	24			8-				CL	SIL	_TY CLAY WITH TRAC e grained sand, moist.	ES	:AND - ofi	ve (5Y 4/3), n	nedium stiff,	low plasticity,	
			0.0	9	WALL CO.	1003000			SA mo	NDY CLAY - light olive	bro	own (2.Y 5	5/3), soft, low	plasticity, fi	ne grained sand	i,
			0.3	10		M		CL								
<u></u>																

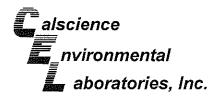
							CLIE	NT	SITE NUMBER	LOCATION						
		ENGINE	C ERING					ExxonMobil	99105	6301 San Pablo Ave Oakland, California						
DRIVEN	RECOVER 0	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	WATER SAMPLE OIL SAMPLE ECOVERED	GRAPHIC LOG	LOG C	F SOIL BORING	B4							
60	· ·	m 00	OR	<u> </u>			CLAYEY SILT WITH TRACE SAND - olive brown (2.5Y 4/3), medium stiff, low plasticity, fine grained sand, moist.									
	48			12-		MIL I	SILTY	CLAY - dark olive brow	ın (2.5Y 3/3), medium stiff,	low plasticity, moist.						
				14—			SANDY	cce fine grained sand.	RAVEL - dark yellowish bro	own (10YR 4/6), low						
30	30			15	X		diamete	r, fine to coarse graine r, slightly moist.	ed sand, subrounded grave	ei up to U.5 inch in						
				16		CL	- becom	ng very moist.								
				17-			- diminis	hing gravel content, n	noist.							
-30	30			18—		CL	medium SANDY (stiff, low plasticity, fin CLAY WITH SOME GF	.ND - dark yellowish brown e grained sand, moist. RAVEL - dark yellowish bro d sand, subrounded grave	wn (10YR 4/6), low						
				19		(GC)	SANDY (4/6), med diameter CLAY W	GRAVEL WITH SILT A dium dense, fine to co , moist.	ND SOME CLAY - dark ye arse grained sand, subang yellowish brown (10YR 4/	gular gravel up to 1 inch in						
				20—		Ci	moist. Borehole with neat		below ground surface. Bot	rehole filled and sealed						
				21-												
				22-												

								CLIENT		SITE	NUMBER		LOCATION			
		CT						ExxonMobil			99105		6301 San P Oakland, C			
LOG (OF SC	ENGINE DIL BO	EERING PRING:	:	an contract	B <i>5</i>	5	DRILLING AND SAMPLING METHOD								
دممة	או או או כ	TEC	N10425	:204 7	·=@	· ∩ 41	6116.4	WATER LEVEL			3					
			OF C			0041	0110.4	TIME	12	235			START TIME	FINISH TIME		
			SURF					DATE	11/1	9/10			1500	1145		
			ANY: (R: C5				ing	REFERENCE	G	SS			DATE 11/17/10	DATE 11/19/1		
INCF	IES			1			ĺ	SURFACE CONDITIONS						<u> </u>		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	SAMPLE ER SAMF	SAMPLE	GRAPHIC LOG				Asphait					
DRI	REC	SAN	%B	DEF (fee	AIR SAN WATER	SEC	GR	DESCRIPTION BY:		Yui	ko Mamiya					
				0-				ASPHALT from surface	to 6 in	ches be	low ground s	surface.				
						H	AC/AB	AGGREGATE BASE fro	m 6 inc	ches to	1 foot below	ground sur	face.			
				1				CLAY WITH SILT - olive	brown	(2.5Y 4	4/3), stiff, low	to medium	plasticity, mois	st.		
				3			CL	SANDY CLAY - dark yei coarse grained sand, me	oist.					to		
				5-		1	CL	grained sand, moist. CLAY WITH SOME SILT	- light	olive br	own (2.5 Y 5/3	3), very stiff	f to hard, low to			
6	6			6			CL	medium plasticity, moist	•							
			0.0	7—				- increasing silt content.								
24	24			8				SILTY CLAY WITH SAND fine grained sand, moist.) - light	olive b	rown (2.5Y 5.	/3), very sti	ff, low plasticity	·		
				* 9-			CL									
				10—	\prod_{i}		//////									

									CL	IENT		SITE NUMBER	LOCATION
			ENGINE	C ERING						ExxonMo	bil	99105	6301 San Pablo Ave. Oakland, California
	DRIVEN	RECOVER S	BLOWS / 6" SAMPLER	OVA READING	DEРТН (feet)	AIR SAMPLE WATER SAMPLE	SOIL SAMPLE	GRAPHIC LOG	LOG	OF SOIL BO	ORING:	B5	
LOG OF SOIL BORING 99105, GPJ ETIC, GDT 3/21/11	36	34			11— 12— 13— 14— 15— 16— 17— 20— 21—			CL CL CL CL	- some SAND graine SAND plastic diame CLAY medium	e subangular gr Y CLAY - dark y d sand, very mo Y CLAY WITH C ity, fine to coars ter, very moist. EY GRAVEL WI , fine to coarse noist. WITH SOME SI m plasticity, mo	wellowish boist. GRAVEL - se grained TH SAND grained sa	Y - dark yellowish brown on-plastic, fine grained sat tolive brown (2.5Y 5/3), which is an an analysis of the first of the	w plasticity, fine YR 4/6), hard, low up to 0.5 inch in 0YR 4/6), medium to 0.75 inch in diameter, 6), hard, low to

Appendix E

Laboratory Analytical Reports and Chain-of-Custody Documentation





December 06, 2010

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

Subject:

Calscience Work Order No.: 10-11-1709

Client Reference:

ExxonMobil 99105

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/20/2010 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.

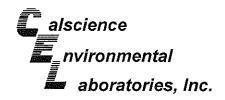
Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

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

Sincerely,

Cecile & se Sain

Calscience Environmental Laboratories, Inc. Cecile deGuia Project Manager





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

Date Received: Work Order No: Preparation:

11/20/10 10-11-1709 **EPA 3550B**

Method:

EPA 8015B (M)

Project: ExxonMobil 99105

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1@5.0-5.5	1	11/17/10 10:43	Solid	GC 48		11/22/10 20:09	101122B06S

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

Parameter Result <u>RL</u> MDL DF Qual <u>Units</u> TPH as Diesel ND 5.0 U 4.8 1 mg/kg Qual Surrogates: **REC (%)** Control Limits Decachlorobiphenyl 61-145 107

11/22/10 B2@5.0-5.5 10-11-1709-2-A 11/17/10 Solid GC 48 11/22/10 101122B06S 20:23

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.

<u>Parameter</u> Result RL MDL DF Qual TPH as Diesel ND 5.0 4.8 mg/kg Qual Surrogates: REC (%) Control Limits Decachlorobiphenyl 110 61-145

11/22/10 B3@5.0-5.5 10-11-1709-3-A 11/17/10 Solid GC 48 11/22/10 101122B06S 20:38

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.

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

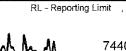
11/22/10 B4@5.0-5.5 10-11-1709-4-A 11/17/10 Solid GC 48 11/22/10 101122B06S 20:53

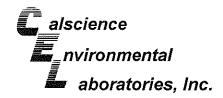
Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

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

Decachlorobiphenyl 61-145 107







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill. CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6@5.0-5.5	IU-111-1703-3-A	A SECTION OF THE PARTY OF THE P	Solid	GC 48	ret Ere Wiet	11/22/10	101122B06S

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 <u>RL</u> MDL DF Qual <u>Units</u> TPH as Diesel ND 5.0 1 U 4.8 mg/kg Qual Surrogates: **REC (%)** Control Limits Decachlorobiphenyl 109 61-145

	id GC-48 11/22/10 11/22/10 101122B068
l B1@9.5-10.0 10-11-1709-6-A 11/18/10 Sol	id GC 48 11/22/10 11/22/10 101122B06S
l B1@9.5-10.0 10-11-1709-6-A 11/18/10 Sol	id GC 48 11/22/10 11/22/10 101122B06S
	ing international contraction and the contraction and the Contraction in the Contraction

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.

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

B1@14.5-15.0	10-11-1709-7-A 11/18/10 Solid GC 48 11/22/10 11/22/10 101122B06S
	10-41-1709-7-A 41/18/10 Solid GC 18 11/22/10 11/22/10 10/102/8068 1
1 B1(0)14.5-15.U	10-11-1709-7-A 11/18/10 Solid GC 48 11/22/10 11/22/10 101122B06S
	The second secon
	08:55
	The control of the co

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.

Result **MDL** DF <u>Parameter</u> RL Qual <u>Units</u> TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates: REC (%) **Control Limits** Decachlorobiphenyl 106 61-145

B1@19.5-20.0	10-11-1709-8-A 11/18/10 Solid GC 48 11/22/10 11/22/10 101122R06S
B1@19.5-20.0	10-11-1709-8-A 11/18/10 Solid GC 48 11/22/10 11/22/10 101122B06S
	09:00

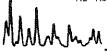
Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

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

DF Parameter Result **MDL** Qual Units RL TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates:

Surrogates: REC (%) Control Limits
Decachlorobiphenyl 106 61-145

RL - Reporting Limit DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1@24.5-25.0	10-11-1709-9-A	09:15	Jona			11/22/10 22:08	

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 <u>RL</u> MDL <u>DF</u> Qual <u>Units</u> ND 5.0 U TPH as Diesel 48 1 mg/kg Qual Surrogates: **REC (%)** Control Limits Decachlorobiphenyl 107 61-145

B2@8.5-9.0 10-11-1709-10-A 11/18/10 Solid GC 48 11/22/10 101122B06S 09:41 22:23

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

 Surrogates:
 REC (%)
 Control Limits
 Qual
 Qual
 U
 Decachlorobiphenyl

 Decachlorobiphenyl
 108
 61-145
 61-145
 4.8
 1
 U
 mg/kg

B3@9.5-10.0 10-11-1709-11-A 11/18/10 Solid GC 48 11/22/10 11/22/10 101122B06S 10:28 22:53

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.

<u>Parameter</u> Result RL. <u>MDL</u> <u>DF</u> Qual <u>Units</u> TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates: REC (%) Control Limits Decachlorobipheny! 61-145 106

B4@9.5-10.0 10-11-1709-12-A 11/18/10 Solid GC 48 11/22/10 10/1122B06S 10:45 23:08

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

108

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

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

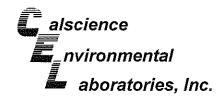
61-145

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

Decachlorobiphenyl





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method:

11/20/10 10-11-1709 **EPA 3550B** EPA 8015B (M)

Project: ExxonMobil 99105

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5@9.5-10.0		11/18/10 11:10	Solid	GC 48	11/22/10	11/22/10 23:22	101122B06S

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 <u>RL</u> **MDL** DF Qual TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates: **REC (%)** Control Limits Decachlorobiphenyl 104 61-145

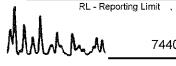
11/22/10 Method Blank 099-12-275-3,769 N/A Solid GC 48 11/22/10 101122B06S 18:09

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

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

99

61-145







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8015B (M)

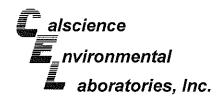
Project: ExxonMobil 99105

Page 1 of 4

Client Sample Number		Lab Samp Number	le	Date/Time Collected	Matrix	Instru	ıment	Date Prepared	Date/Time Analyzed	QC Batch ID
B1@5.0-5.5		10-11-17	09-1-A	11/17/10 10:43	Solid	GC	24	11/23/10	11/25/10 02:11	101123B02
Comment(s): -Results were e	valuated to the MDI	_, concentrations >	= to the I	MDL but < RL,	if found,	are qualif	ied with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	RL	MDL	DF		Qual	Ū	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene	71	42-126								
B2@5.0-5.5		10-11-17	09-2-A	11/17/10 11:50	Solid	GC	24	11/23/10	11/25/10 02:45	101123B02
Comment(s): -Results were e	valuated to the MDL	., concentrations >	= to the f	MDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	RL	MDL	DF		Qual	<u>U</u> ı	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	70	42-126								
B3@5.0-5.5		10-11-17	09-3-A	11/17/10 13:45	Solid	GC	24	11/23/10	11/25/10 03:18	101123B02
Comment(s): -Results were e	valuated to the MDL	, concentrations >	= to the N	MDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
Parameter	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>Ur</u>	<u>nits</u>		
ΓPH as Gasoline	ND	0.50	0.42	1		U	mg	'kg		
Surrogates:	REC (%)	Control Limits				Qual				
,4-Bromofluorobenzene	70	42-126								
B4@5.0-5.5		10-11-170	19-4-A	11/17/10 15:00	Solid	GC	24	11/23/10	11/25/10 03:52	101123B02
Comment(s): -Results were ev	valuated to the MDL	, concentrations >=	to the M	IDL but < RL,	if found, a	are qualifie	ed with	a "J" flag.		
Parameter Parameter	Result	<u>RL</u>	MDL	<u>DF</u>	;	Qual	<u>Un</u>	<u>its</u>		
PH as Gasoline	ND	0.50	0.42	1		U	mg/	kg		
Surrogates:	REC (%)	Control Limits				Qual				

RL - Reporting Limit ,

DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Page 2 of 4

FAX: (714) 894-7501

i Tojeci. Exxonimobii i	33103							, ,	490 2 01 1
Client Sample Number		Lab Samp Number		Date/Time Collected	Matrix	Instrumen	Date t Prepared	Date/Time Analyzed	QC Batch ID
B5@5,0-5.5		10-11-17	709-5-A	11/17/10 15:50	Solid	GC 24	11/23/10	11/25/10 04:59	101123B02
Comment(s): -Results were e	evaluated to the MDI	L, concentrations >	>= to the	MDL but < RL	, if found,	are qualified w	ith a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>Units</u>		
ΓPH as Gasoline	ND	0.50	0.42	1		Ú i	ng/kg		
Surrogates:	REC (%)	Control Limits	;			Qual			
1,4-Bromofluorobenzene	69	42-126	_						
B1@9.5-10.0		10-11-17	09-6-A	11/18/10 08:50	Solid	GC 24	11/23/10	11/25/10 05:32	101123B02
Comment(s): -Results were e	valuated to the MDL	., concentrations >	= to the I	MDL but < RL,	if found,	are qualified w	ith a "J" flag.		
Parameter	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>Units</u>		
PH as Gasoline	ND	0.50	0.42	1		U r	ng/kg		
Surrogates:	REC (%)	Control Limits	1			<u>Qual</u>			
,4-Bromofluorobenzene	71	42-126							
B1@14.5-15.0		10-11-17	09-7-A	11/18/10 08:55	Solid	GC 24	11/23/10	11/25/10 - 06:05	101123802
Comment(s): -Results were e	valuated to the MDL	., concentrations >	= to the I	MDL but < RL,	if found,	are qualified w	ith a "J" flag.		
'arameter	Result	RL	MDL	<u>DF</u>		Qual	<u>Units</u>		
PH as Gasoline	ND	0.50	0.42	1		U r	ng/kg		
Surrogates:	REC (%)	Control Limits				Qual			
,4-Bromofluorobenzene	71	42-126							
B1@19.5-20.0		10-11-17	09-8-A	11/18/10 09:00	Solid	GC 24	11/23/10	11/25/10 06:38	101123B02
Comment(s): -Results were e	valuated to the MDL	, concentrations >	= to the N	MDL but < RL,	if found,	are qualified wi	th a "J" flag.		
'arameter	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>Units</u>		
PH as Gasoline	ND	0.50	0.42	1		U n	ng/kg		
Surrogates:	REC (%)	Control Limits				Qual			
unoqaics.	110 (70)	CONTROL CITALS							

RL - Reporting Limit ,

DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Page 3 of 4

FAX: (714) 894-7501

Client Sample Number		Lab Samp Number	le	Date/Time Collected	Matrix	Instru	ment	Date Prepared	Date/Time Analyzed	QC Batch ID
B1@24.5-25.0		10-11-17	09-9-A	11/18/10 09:15	Solid	GC	24	11/23/10	11/25/10 07:11	101123B02
Comment(s): -Results were e	valuated to the MDI	, concentrations >	= to the I	MDL but < RL,	if found,	are qualif	ied with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		<u>Qual</u>	<u>Ū</u>	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	69	42-126								
B2@8:5-9.0		10-11-170)9-10-A	11/18/10 09:41	Solid	GC	24	11/23/10	11/25/10 08:51	101123B02
Comment(s): -Results were e	valuated to the MDL	., concentrations >	= to the I	MDL but < RL,	if found,	are qualif	ied with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>U</u>	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	69	42-126								
B3@9,5-10.0		10-11-170)9-11-A	11/18/10 10:28	Solid	GC	24	11/23/10	11/25/10 09:25	101123B02
Comment(s): -Results were e	valuated to the MDL	, concentrations >	to the N	MDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>U</u> ı	<u>rits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	70	42-126								
B4@9.5-10.0		10-11-170	19-12-A	11/18/10 10:45	Solid	GC	24	11/23/10	11/25/10 09:58	101123B02
Comment(s): -Results were e	valuated to the MDL	, concentrations >=	to the N	IDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
Parameter	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	Ur	iits		
PH as Gasoline	ND	0.50	0.42	1		U	mg	'kg		
Surrogates:	REC_(%)	Control Limits				<u>Qual</u>				

RL - Reporting Limit ,

DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8015B (M)

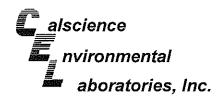
Project: ExxonMobil 99105

Page 4 of 4

1 Tojoot: Externition of	7.00								
Client Sample Number		Lab Sampi Number		ate/Time collected	Matrix	Instrumen	Date Prepared	Date/Time Analyzed	QC Batch ID
B5@9.5-10.0		10-11-17	99-13-A 1	1/18/10 11:10	Solid	GC 24	11/23/10	11/25/10 10:31	101123B02
Comment(s): -Results were eva	luated to the MDL	, concentrations >	to the MD	L but < RL,	if found, a	are qualified w	ith a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL.	<u>DF</u>	9	Qual	<u>Units</u>		
TPH as Gasoline	ND	0.50	0.42	1		U i	ng/kg		
Surrogates:	REC (%)	Control Limits				Qual			
1,4-Bromofluorobenzene	69	42-126							
Method Blank		099-12-27	′9-4,120	N/A	Solid =	GC 24	11/23/10	11/24/10 19:27	101123B02
Comment(s): -Results were eva	luated to the MDL	, concentrations >:	to the MDI	but < RL,	f found, a	re qualified w	th a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	DF	9	Qual	<u>Units</u>		
TPH as Gasoline	ND	0.50	0.42	1		U r	ng/kg		
Surrogates:	REC (%)	Control Limits				Qual			
1,4-Bromofluorobenzene - FID	70	42-126							

RL - Reporting Limit , 7440

DF - Dilution Factor , Qual - Qualifiers





ETIC Engineering, Inc.	Date Received:	11/20/10
2285 Morello Avenue	Work Order No:	10-11-1709
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Droject: EvyonMobil 00105		Dama 4 af 7

Project: ExxonMobil 99105

Page 1 of 7

Client Sample Number			Lab Sa Num			Date/Time Collected Matrix Instrumer	Date ^{nt} Prepar		te/Time alyzed ⁽	QC Bat	tch ID
B1@5.0-5.5			10-11-	1709-1	I-A	11/17/10 Solid GC/MS X 10:43	X 11/20/		/23/10 -)3:56	01122	21.02
Comment(s): -Results were	evaluated to the	ne MDL, d	oncentration	ons >=	to the N	MDL but < RL, if found, are qualified v	vith a "J" flag).			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	DF	Qual	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	IJ	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	Ü	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	ប						
Surrogates:	REC (%)	Control Limits	Qua	l		Surrogates:	REC (%)	Control Limits	Qua	<u>1</u>	
Dibromofluoromethane	106	63-141				1,2-Dichloroethane-d4	104	62-146			
Toluene-d8	101	80-120				1,4-Bromofluorobenzene	100	60-132			
B2@5.0-5.5		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10-11-1	709-2	A	11/17/10 Solid GC/MS X 11:50	(11/20 /1		23/10 ₋₁ 4:25	01122	L02
Comment(s): -Results were	evaluated to th	e MDL, c	oncentratio	ns >=	to the N	IDL but < RL, if found, are qualified w	ith a "J" flag				·····
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF	Qual
Benzene	ND	0.0050	0.00020	1	IJ	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	Ų
Ethylbenzene	ND	0.0050	0.00016	4	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028		Ü

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Tert-Amyl-Methyl Ether (TAME)

Surrogates:

1,2-Dichloroethane-d4

1,4-Bromofluorobenzene

DF - Dilution Factor , Qual - Qualifiers

ND

ND

104

101

REC (%)

0.0050 0.00029 1

0.0050 0.00032 1

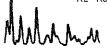
<u>Qual</u>

<u>Control</u>

<u>Limits</u>

63-141

80-120



Toluene

Xylenes (total)

Dibromofluoromethane

Surrogates:

Toluene-d8

0.010

<u>Limits</u>

62-146

60-132

REC (%) Control

ND

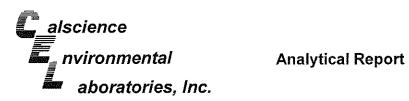
99

99

0.00026 1

<u>Qual</u>

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ETIC Engineering, Inc.	Date Received:	11/20/10
2285 Morello Avenue	Work Order No:	10-11-1709
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Project: ExxonMobil 99105		Page 2 of 7

Date/Time Analyzed QC Batch ID	
	 QC Batch ID

Client Sample Number			Lab Sa Numi			Date/Time Collected Matrix Instrumer	Date ^{1t} Prepa		e/Time alyzed ^C	C Bat	tch ID
B3@5.0-5,5			10-11-1	709-3	-A	11/17/10 Solid GC/MS X 13:45	X 11/20/		23/10 ₁ 4:53	01122	L02
Comment(s): -Results were e	valuated to th	ne MDL, c	oncentratio	กร >=	to the N	ADL but < RL, if found, are qualified v	vith a "J" flag	J.			
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	IJ	Ethyi-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	Ų
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	<u>Qua</u>	<u>!</u>	
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	101	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	98	60-132			
B4@5.0-5.5			10-11-1	709-4	# 1	11/17/10 Solid GC/MS X 15:00	X 11/20/1		23/10 ₁ , 5:22	01122	L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a ".	Comment(s):	-Results were evaluated to the MDL.	concentrations >= to the MDL but <	RL, if found, are qualified with a "J" fla
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							_				
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyi-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	<u>Control</u>	<u>Qual</u>			Surrogates:	REC (%)	Control	Qual		
		<u>Limits</u>						<u>Limits</u>			
Dibromofluoromethane	106	63-141				1,2-Dichloroethane-d4	107	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	98	60-132			

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





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received: Work Order No:

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

1,2-Dichloroethane-d4

1,4-Bromofluorobenzene

Surrogates:

Ethyl-t-Butyl Ether (ETBE)

Tert-Amyl-Methyl Ether (TAME)

Preparation: Method:

Units:

11/20/10

10-11-1709 EPA 5030C

EPA 8260B mg/kg

Project: ExxonMobil 99105

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0.00025

0.00034

0.00028

0.00026 1

Qual

0.022

0.0050

0.050

0.010

0.010

0.010

<u>Limits</u>

62-146

60-132

REC (%) Control

ND

ND

ND

ND

ND

101

98

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Client Sample Number			Lab Sa Numl			Date/Time Collected Matrix Instrume	Date nt Prepa		e/Time alyzed	QC Bat	ch ID
B5@5.0-5.5			10-11-1	709-8	5-A	11/17/10 Solid GC/MS X 15:50	X 11/20/		/23/10 ₁)5:51	01122	L02
Comment(s): -Results were	e evaluated to the	ne MDL, c	oncentratio	กร >=	to the N	MDL but < RL, if found, are qualified to	vith a "J" flag) .			
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qua
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	Ü	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	ប						
Surrogates:	<u>REC (%)</u>	Control Limits	<u>Qual</u>			Surrogates:	REC (%)	Control Limits	Qua	<u>al</u>	
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	100	62-146			
Toluene-d8	99	80-120				1,4-Bromofluorobenzene	98	60-132			
B1@9.5-10.0		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	10-11-1	709-6		11/18/10 Solid GC/MS X 08:50	X 11/20/1		23/10 ₁ 6:19	01122	L02
Comment(s): -Results were	evaluated to th	e MDL, co	oncentratio	ns >=	to the N	IDL but < RL, if found, are qualified w	ith a "J" flag	ļ.	•		
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	<u>Qual</u>	Parameter	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual

RL - Reporting Limit

DF - Dilution Factor

0.0050

0.0050

0.0050

0.0050

0.0050

0.0050

<u>Control</u>

<u>Limits</u>

63-141

80-120

ND

ND

ND

ND

ND

ND

105

100

REC (%)

0.00020 1

0.00016 1

<u>Qual</u>

1

0.00025

0.00026

0.00029

0.00032

U

U

U

U

U

Qual - Qualifiers

Benzene 1,2-Dibromoethane

Toluene

1,2-Dichloroethane

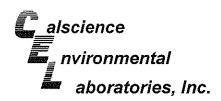
Dibromofluoromethane

Ethylbenzene

Xylenes (total)

Surrogates:

Toluene-d8





ETIC Engineering, Inc.

2285 Morello Avenue

Work Order No:

Pleasant Hill, CA 94523-1850

Preparation:

Method:

EPA 8260B

						Method:			EPA 8		
Project: ExxonMobil 991	05					Units:			Page -	ng/k 4 of	_
Client Sample Number			Lab Sa Num	•		Date/Time Collected Matrix Instrumen	Date t Prepa		e/Time alyzed ^C	QC Ba	tch ID
B1@14.5-15.0			10-11-	1709-7	7-A	11/18/10 Solid GC/MS XX 08:55	K 11/20/		/23/10 ₁)6:48	01122	2L02
Comment(s): -Results were eva	aluated to th	ne MDL, c	oncentration	ons >=	to the N	MDL but < RL, if found, are qualified w	rith a "J" flag) .			
Parameter	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Aicohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	<u>Qua</u>	ļ		Surrogates:	REC (%)	Control Limits	Qua	<u>al</u>	
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	101	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	98	60-132			
B1@19.5-20.0			10=11-1	709-8	-A	11/18/10 Solid GC/MS XX 09:00	11/20/1		23/10 1 7:17	01122	L02
Comment(s): -Results were eva	luated to th	e MDL, co	oncentratio	ns >=	to the N	ADL but < RL, if found, are qualified wi	ith a "J" flag	ļ.			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	MDL.	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U

Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control	<u>Qual</u>			Surrogates:	REC (%)	Control	Qual		
		<u>Limits</u>						<u>Limits</u>			
Dibromofluoromethane	105	63-141				1,2-Dichloroethane-d4	103	62-146			

RL - Reporting Limit

DF - Dilution Factor ,

80-120

99

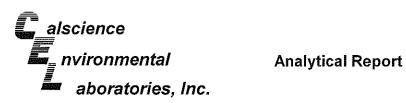
Qual - Qualifiers

Toluene-d8

1,4-Bromofluorobenzene

98

60-132





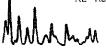
ETIC Engineering, Inc.	Date Received:	11/20/10
2285 Morello Avenue	Work Order No:	10-11-1709
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Project: ExxonMobil 99105		Page 5 of 7

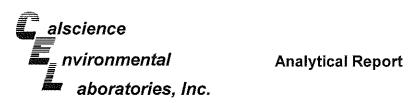
ate/Time			
nahaed	QC	Batch	١D

Client Sample Number			Lab Sa Numb			Date/Time Collected Matrix Instrument	Date t Prepar		e/Time alyzed ^C	C Bat	ch ID
B1@24.5-25.0			10-11-1	709-9) -A	11/18/10 Solid GC/MS X 09:15	X 11/20/		/23/10 ₁ /2:02	01122	L02
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.											
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	<u>Qual</u>			Surrogates:	REC (%)	Control Limits	Qua	<u>!</u>	
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	104	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	100	60-132			
B2@8,5-9.0			10-11-1	709-1	0 -A	11/18/10 Solid GC/MS XX 09:41	(11/20/1	Marris to a financia	23/10 ₁ . 7:45	01122	L02
Comment(s): -Results were eva	aluated to th					IDL but < RL, if found, are qualified w	ith a "J" flag	Di	MDI	DE	Ovel

<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	Ų	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	Qual	ļ		Surrogates:	REC (%)	Control Limits	<u>Qual</u>	[
Dibromofluoromethane	105	63-141				1,2-Dichloroethane-d4	108	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	97	60-132			

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







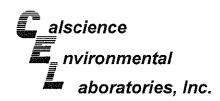
ETIC Engineering, Inc.	Date Received:	11/20/10
2285 Morello Avenue	Work Order No:	10-11-1709
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Destruct Francisco Mahill 00405		5 0 17

Project: ExxonMobil 99105

			•		Date/Time Collected Matrix Instrume	_+			C Bat	ich ID
		10-11-1	709-1	1-A	11/18/10 Solid GC/MS X 10:28	X 11/20/		management of a contract	01122	!L02
evaluated to th	ne MDL, c	oncentratio	ns >=	to the N	ADL but < RL, if found, are qualified v	vith a "J" flag	J.			
<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	MDL.	<u>DF</u>	Qua
ND	0.0050	0.00020	1	Ų	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
ND	0.0050	0.00032	1	U						
REC (%)	Control Limits	<u>Qual</u>			Surrogates:	REC (%)	Control Limits	Qua	<u>!</u>	
104	63-141				1,2-Dichloroethane-d4	103	62-146			
100	80-120				1,4-Bromofluorobenzene	98	60-132			
		10-11-1	709-1	2-A	11/18/10 Solid GC/MS X 10:45	X 11/20/1			01122	L02
	Result ND 104 100	Result RL ND 0.0050 REC (%) Control Limits 104 63-141	Number Number	Number Number	evaluated to the MDL, concentrations >= to the MR Result RL MDL DF Qual ND 0.0050 0.00020 1 U ND 0.0050 0.00025 1 U ND 0.0050 0.00026 1 U ND 0.0050 0.00026 1 U ND 0.0050 0.00016 1 U ND 0.0050 0.00016 1 U ND 0.0050 0.00029 1 U ND 0.0050 0.00029 1 U ND 0.0050 0.00032 1 U REC (%) Control Limits 104 63-141	Number Collected Matrix Instrument	Number Collected Matrix Instrument Prepar	Number Collected Matrix Instrument Prepared An.	Number Collected Matrix Instrument Prepared Analyzed Collected Matrix Instrument Prepared Analyzed Collected An	Number Collected Matrix Instrument Prepared Analyzed QC Bat

<u>Parameter</u>	Result	<u>RL</u>	MDL	DF	Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	Ų	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	<u>Qual</u>		
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	103	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	97	60-132			

RL - Reporting Limit , DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

11/20/10

Work Order No: Preparation:

Methyl-t-Butyl Ether (MTBE)

10-11-1709 **EPA 5030C**

Method: Units:

EPA 8260B

0.0050

0.00025

U U

ND

mg/kg

Project: ExxonMobil 99105

Page 7 of 7

Client Sample Number			Lab Sa Numi			Date/Time Collected Matrix Instrumer	Date ^{nt} Prepa		e/Time alyzeď ^C	C Bat	ch ID
B5@9.5-10.0			10-11-1	1709-1	3 - A	11/18/10 Solid GC/MS X 11:10	X 11/20/		23/10 ₁ 9:11	01122	L02
Comment(s): -Results we	ere evaluated to the	ne MDL, c	oncentratio	วกร >=	to the N	/IDL but < RL, if found, are qualified v	vith a "J" flag	g.			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	DF	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	Ų	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	Ų
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
(ylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	<u>Qual</u>	!		Surrogates:	REC (%)	Control Limits	Qua	<u>l</u>	
Dibromofluoromethane	105	63-141				1,2-Dichloroethane-d4	104	62-146			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	97	60-132			
Method Blank			099-12-	796-4	,188	N/A Solid GC/MS X	X 11/22/		23/10 ₁ 1:33	01122	L02
Comment(s): -Results we	re evaluated to th	e MDL, co	oncentratio	ns >=	to the M	IDL but < RL, if found, are qualified w	rith a "J" flag	 -			
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	<u>RL</u>	MDL	DF	Qual

1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1
Xylenes (total)	ND	0.0050	0.00032	1	U					
Surrogates:	REC (%)	Control	Qual			Surrogates:	REC (%)	Control	<u>Qual</u>	
		<u>Limits</u>						<u>Limits</u>		
Dibromofluoromethane	103	63-141				1,2-Dichloroethane-d4	100	62-146		
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	99	60-132		

U

DF - Dilution Factor ,

0.0050

ND

0.00020 1

Qual - Qualifiers

Benzene 1,2-Dibromoethane





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 3550B EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B5@5.0-5.5		GC 48	11/22/10	11/22/10	101122806
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD RPD	CL Qualifiers
TPH as Diesel	66	67	64-130	2 0-	15

MMM_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepar		Date Analyzed	MS/MSD Batch Number
B1@24.5-25.0	Solid	GC 24	11/23/1	0	11/25/10	101123802
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	103	103	48-114	0	0-23	

Muhan_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1709 EPA 5030C EPA 8260B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Dat Prepa		Date Analyzed	MS/MSD Batch Number
B1@24,5-25,0	Solid	GC/MS XX	11/20/	10	11/23/10	101122502
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Davisana	0.4	20	04.407		0.00	

<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
Benzene	61	63	61-127	3	0-20	
Carbon Tetrachloride	60	63	51-135	6	0-29	
Chlorobenzene	59	60	57-123	2	0-20	
1,2-Dibromoethane	65	62	64-124	6	0-20	3
1,2-Dichlorobenzene	57	56	35-131	3	0-25	
1,2-Dichloroethane	63	60	80-120	5	0-20	3
1,1-Dichloroethene	56	60	47-143	6	0-25	
Ethylbenzene	58	60	57-129	4	0-22	
Toluene	62	63	63-123	2	0-20	3
Trichloroethene	59	61	44-158	4	0~20	
Vinyl Chloride	77	83	49-139	7	0-47	
Methyl-t-Butyl Ether (MTBE)	65	59	57-123	10	0-21	
Tert-Butyl Alcohol (TBA)	55	53	30-168	4	0-34	
Diisopropyl Ether (DIPE)	62	59	57-129	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	65	61	55-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	67	61	58-124	9	0-20	
Ethanol	56	52	17-167	9	0-47	

Muhan_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1709 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ch
099-12-275-3,769	Solid	GC 48	11/22/10	11/22/10	101122B06S	* *** *** *** *** *** *** *** *** ***
<u>Parameter</u>	LCS %RE	C LCSD %F	REC %REC	CL RPD	RPD CL	<u>Qualifiers</u>
TPH as Diesel	107	104	75-12	23 2	0-12	





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1709 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Ba Number	tch
099-12-279-4,120	Solid	GC 24	11/23/10	11/24/10	101123B02	
<u>Parameter</u>	LCS %RE	C LCSD 9	<u> %REC %REC</u>	CL RPD	RPD CL	<u>Qualifiers</u>
TPH as Gasoline	105	106	70-1:	24 0	0-18	

<u>Muhna</u>





ETIC Engineering, Inc. 2285 Morello Avenue Date Received: Work Order No: Preparation:

Method:

N/A 10-11-1709 EPA 5030C EPA 8260B

Pleasant Hill, CA 94523-1850

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Da Anal		LCS/LCSD Numbe	
099-12-796-4,188	Solid	GC/MS XX	11/22/10	11/22	/10	101122L	02
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	92	93	78-120	71-127	2	0-20	
Carbon Tetrachloride	94	95	49-139	34-154	1	0-20	
Chlorobenzene	92	94	79-120	72-127	2	0-20	
1,2-Dibromoethane	97	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	93	93	75-120	68-128	0	0-20	
1,2-Dichloroethane	91	93	80-120	73-127	2	0-20	
1,1-Dichloroethene	81	83	74-122	66-130	2	0-20	
Ethylbenzene	93	94	76-120	69-127	1	0-20	
Toluene	94	95	77-120	70-127	1	0-20	
Trichloroethene	91	93	80-120	73-127	2	0-20	
Vinyl Chloride	84	86	68-122	59-131	2	0-20	
Methyl-t-Butyl Ether (MTBE)	99	101	77-120	70-127	2	0-20	
Tert-Butyl Alcohol (TBA)	102	107	68-122	59-131	5	0-20	
Diisopropyl Ether (DIPE)	96	98	78-120	71-127	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	104	104	78-120	71-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	105	106	75-120	68-128	1	0-20	
Ethanol	84	99	56-140	42-154	16	0-20	

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





Glossary of Terms and Qualifiers



Work Order Number: 10-11-1709

Qualifier	<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.
В	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.
l	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.
Ž	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.

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ExxonMobil Engr:

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

Provide MRN for retail or ARE for major projects

Retail Project (MRN)

Major Project (AFE) E1.1996.60135

Project Name Former, Mobil 89105

CHAIN OF CUSTODY RECORD

DATE:	11/18	1/2010	
PAGE:	OF	2	- 1171

LABORATORY CLIENT:			3	rrojec	, L 14:01	1116	150	ımeı	IVIO	n 991	.05					
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ADDRESS: 2285 Morello Avenue						GLOBAL ID# T0600101855							4512012692			
CITY:					PROJECT CONTACT:									LAB USE ONLY		
Pleasant Hill, CA 9452:	3					Hamidou Barry, ETIC Engineering, Inc.										77-7709
TEL: 925-602-4710 Ext. 34 TURNAROUND TIME	925-602-4720		*****					. (OIQ)	WIOKE,		_					COQLER RECEPT: Temp =°C
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aboratories, inc.

ExxonMobil Engr:

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

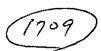
Site Name Provide MRN for retail or Al-E for major projects Retail Project (MRN) Major Project (AFE) E1.1996.60135 Project Name Former Mobil 99105

CHAIN OF	CUSTODY RECORD
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DATE: 11/18/2010
PAGE: 2 OF 2

LABORATORY CLIENT:												-	
ExxonMobil c/o ETIC E	ingineering				GLÓE	AL ID#	COELTLO	OG CODE:					P.O.
ADDRESS: 2285 Morello Avenue	ADDRESS:								101855	4512012692			
city:				····	PRO	DJECT C	ONTACT:			EAR USE ONLY			
Pleasant Hill, CA 94523					Н	amid	ou Ba	rry, ETI	C Engi	neering,	inc.		11-7709
TEL;	FAX:	1			SAN	/PLER(S): (SIGNAT	URE)			•		COOLER RECEIPT
925-602-4710 Ext. 34	925-602-4720				1								Temp≐°C
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* 7 Oxygenates include M	IBE, IBA, IAME, ETBE	E, DIPE, EDB,	AND 1,2-DC/	۹.	ΙĒ	8	핊						
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<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: ETIC,CRA

Delivery Instructions:

Signature Type: SIGNATURE REQUIRED Tracking #: 515398969

SDS

ORC



GARDEN GROVE

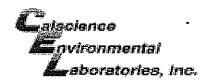
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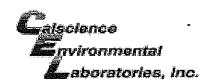
Package 1 of 1



SAMPLE RECEIPT FORM Cooler / of /

CLIENT: ETIC	DATE: _	11/20	<u> </u>
TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen	1)	anna ann an an ann an an Aireann an	
☐ Sample(s) outside temperature criteria (PM/APM contacted by:).	Blank	☐ Sample	•
☐ Sample(s) outside temperature criteria but received on ice/chilled on same da	-	ig.	
☐ Received at ambient temperature, placed on ice for transport by Co	urier.		v/_
Ambient Temperature: □ Air □ Filter		Initial:	_/
CUSTODY SEALS INTACT:			
☑ Cooler □ No (Not Intact) □ Not Present	□ N/A	Initial:	YC
□ Sample □ □ No (Not Intact) ☑ Not Present		Initial:	TN
SAMPLE CONDITION:	′es	No	N/A
Chain-Of-Custody (COC) document(s) received with samples		140	N/A
COC document(s) received complete			
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.	Œ.	1l	
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.		-	
Sampler's name indicated on COC			
Sample container label(s) consistent with COC			
Sample container(s) intact and good condition.			
Proper containers and sufficient volume for analyses requested			
Analyses received within holding time			
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours			
Proper preservation noted on COC or sample container			
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace			
Tedlar bag(s) free of condensation CONTAINER TYPE:			
Solid: □4ozCGJ □8ozCGJ □16ozCGJ ☑Sleeve (5/P) □EnCores®	' ⊟TerraCo	ores® □	
Water: □VOA □VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □			1
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs			18
□250PB □250PBn □125PB □125PBznna □100PJ □100PJna₂ □			
Air: ☐Tedlar® ☐Summa® Other: ☐ Trip Blank Lot#: Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Env Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 znna: ZnAc2+NaOH f: File	Labeled/Ch	ecked by:	

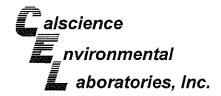
SOP T100_090 (09/13/10)



WORK ORDER #: 10-11- 1 2 6

SAMPLE ANOMALY FORM

SAMPL	ES - CC	ONTAIN	ERS & L	ABELS:			Comm	ents:		
Sam Hold Insu Impr No p Sam Sam Sam Sam Othe	ple(s)/Colling time of coper proper conservation of conservati	e expire quantition ntainer(eservati tive not els illegil el(s) do r elD nd/or Tin informationer(is tainer(s) container(s) g (Not tr g (transi	r(s) receid — list sales for and solution action in sample ansferred interred intere	- list test PC or label - test/contain to COC - Not cted mised - Note container led promised - d - duplicate o Calscienc o Client's Te	r LISTEI nd test est est list test er type e in com Note in com e bag sul e Tedlar edlar edlar Ba	& notify laborated ments comments bmitted) Bag*) ag*)	Sang C-1 C-1 C-1 C-1 C-1 C-1	3) B3 1) B4 7) B1	labeled as: 5-5.5 5-5.5 5-5.5 19.5-15 19.5-20 24.5-25 9.5-10	
HEADS	PACE -	Contai	ners wit	h Bubble >	6mm o	r ¼ inch:				
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample#	Container ID(s)	# of Cont. received	Analysis	
Comment	ts:									
*Transferr	ed at Clie	nt's requ	est.				In	itial / Da	te: 11 /	/10





December 09, 2010

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

Calscience Work Order No.: 10-11-1824 Subject:

> ExxonMobil 99105 Client Reference:

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/23/2010 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.

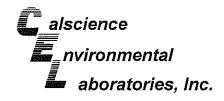
Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

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

Sincerely,

Cecile & se Soia

Calscience Environmental Laboratories, Inc. Cecile deGuia Project Manager





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1824 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3@12.0-12.5		11/19/10 09:05	Solid	GC 45		11/24/10	101124B11

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

B3@					1-1824			ilid	C 45	4140	11/24			
							9/10						24B11	
	V19.5-ZU.U					-Z-A								
											24			
							09:20							

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.

<u>Parameter</u> Result MDL DF Qual RL <u>Units</u> TPH as Diesel ND 5.0 U 4.8 1 mg/kg Qual Surrogates: **REC (%)** Control Limits Decachlorobiphenyl 97 61-145

1. TO COLUMN TO THE TOTAL	
B3@14.5-15.0 10-11-1824-3-A 11/19/10 Solid GC 45 11/24/1	n 11/24/10 101124B11
T 83(0)14:5-15:00:	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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 MDL. DF Qual <u>Units</u> <u>RL</u> TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates: REC (%) Control Limits Decachlorobiphenyl 88 61-145

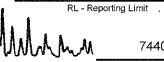
B3@17.0-17.5 10-11-1824-4-A 11/19/10 Solid GC 45 11/24/10 11/24/10 101124B11
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21:52
1 () The filling the Administration of the Control

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.

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

Decachlorobiphenyl 103 61-145



DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No:

11/23/10 10-11-1824

Preparation:

EPA 3550B

Method:

EPA 8015B (M)

Project: ExxonMobil 99105

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
The state of the s	10-11-1824-5-A	09:55	Solid		11/24/10	22:08	101124B11

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 <u>Units</u> TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual Surrogates:

REC (%) Control Limits Decachlorobiphenyl 61-145

11/24/10 B2@19.5-20.0 10-11-1824-6-A 11/19/10 Solid GC 45 11/24/10 101124B11 22:23

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.

<u>DF</u> Parameter Result RL MDL Qual TPH as Diesel ND 5.0 4.8 U mg/kg Qual Surrogates: REC (%) Control Limits Decachlorobiphenyl 101 61-145

11/19/10 10:19 11/24/10 B4@14.5-15.0 GC 45 10-11-1824-7-A Solid 11/24/10 101124B11 22:38

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.

MDL <u>Parameter</u> Result DF Qual <u>RL</u> <u>Units</u> TPH as Diesel ND 5.0 U 48 1 mg/kg Qual Surrogates: REC (%) **Control Limits** 61-145 Decachlorobiphenyl 105

11/24/10 B4@19.5-20.0 10-11-1824-8-A 11/19/10 Solid GC 45 11/24/10 101124B11 22:54

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.

<u>Parameter</u> Result DF <u>MDL</u> Qual <u>Units</u> RL TPH as Diesel ND 5.0 4.8 1 U mg/kg Qual

61-145

Surrogates: REC (%) Control Limits

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

Decachlorobiphenyl





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1824 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed QC Batch ID
And the second s	10-11-1824-9-A	44/40/40	Solid		2.24 . Miles C. Marcheller	23:09

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.

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

B5@19.5-20.0 10-11-1824-10-A 11/19/10 Solid GC 45 11/24/10 101124B11 11:00 23:25

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

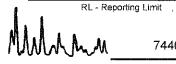
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

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

Method Blank 099-12-275-3,773 N/A Solid GC 45 11/24/10 11/24/10 101124B11 16:43

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

<u>Parameter</u> MDL <u>DF</u> Result Qual <u>Units</u> RL TPH as Diesel ND U 5.0 4.8 1 mg/kg Qual Surrogates: REC (%) Control Limits Decachlorobiphenyl 87 61-145



DF - Dilution Factor





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method:

11/23/10 10-11-1824 EPA 5030C EPA 8015B (M)

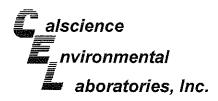
Project: ExxonMobil 99105

Page 1 of 3

Client Sample Number		Lab Samp Number	le	Date/Time Collected	Matrix	Instrui	nent	Date Prepared	Date/Time Analyzed	QC Batch ID
B3@12.0-12.5		10-11-18	24-1-A	11/19/10 09:05	Solid	GC	22	11/24/10	11/24/10 23:31	101124B01
Comment(s): -Results were e	evaluated to the MDI	L, concentrations >	= to the	MDL but < RL	, if found	, are qualific	ed with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		<u>Qual</u>	<u>U</u>	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	83	42-126								
B3@19.5-20.0		10-11-18	24-2-A	11/19/10 09:20	Solid	GC	22	11/24/10	11/24/10 00:03	101124B01
Comment(s): -Results were e	evaluated to the MDL	., concentrations >	to the	MDL but < RL,	if found,	are qualifie	d with	a "J" flag.	•	
<u>Parameter</u>	Result	RL	MDL	<u>DF</u>		Qual	<u>Ui</u>	<u>nits</u>		
PH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	79	42-126								
B3@14.5-15.0		10-11-182	≀4-3-A	11/19/10 09:10	Solid	GC 2	2	11/24/10	11/24/10 00:36	101124B01
Comment(s): -Results were e	valuated to the MDL	, concentrations >=	to the l	MDL but < RL,	if found,	are qualifie	d with	a "J" flag.		
Parameter	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>		<u>Qual</u>	<u>Ur</u>	<u>iits</u>		
PH as Gasoline	ND	0.50	0.42	1		U	mg.	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
,4-Bromofluorobenzene	89	42-126								
B3@17.0-17.5		10-11-182	4-4-A	11/19/10 09:15	Solid	GC 2	2	11/24/10	11/25/10 01:08	101124B01
Comment(s): -Results were e	valuated to the MDL	, concentrations >=	to the N	MDL but < RL,	if found,	are qualifie	d with	a "J" flag.		
Parameter Parameter	Result	RL	MDL	<u>DF</u>		<u>Qual</u>	<u>Ur</u>	<u>its</u>		
PH as Gasoline	ND	0.50	0.42	1		U	mg/	kg		
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
,4-Bromofluorobenzene	92	42-126								

RL - Reporting Limit

DF - Dilution Factor ,





ETIC Engineering, Inc.

2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No:

Preparation:

Method:

11/23/10

10-11-1824

EPA 5030C

EPA 8015B (M)

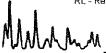
Project: ExxonMobil 99105

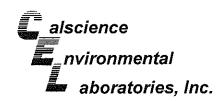
Page 2 of 3

Froject. Exxonivionii s	9100								· ···· · · · ·	age 2 01 0
Client Sample Number		Lab Samp Number	le	Date/Time Collected	Matrix	Instru	ment	Date Prepared	Date/Time Analyzed	QC Batch ID
B2@14,5-15,0		10-11-18	24-5-A	11/19/10 09:55	Solid	GC	22	11/24/10	11/24/10 21:53	101124B01
Comment(s): -Results were ev	valuated to the MDI	L, concentrations >	= to the	MDL but < RL,	if found,	are qualif	ed with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	Ū	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC_(%)	Control Limits				Qual				
1,4-Bromofluorobenzene	91	42-126								
B2@19:5-20:0		10-11-18:	24-6-A	11/19/10 10:00	Solid	GC	22	11/24/10	11/25/10 01:41	101124B01
Comment(s): -Results were ev	aluated to the MDL	., concentrations >	= to the	MDL but < RL,	if found,	are qualifi	ed with	a "j" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>U</u>	nits.		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	85	42-126								
B4@14.5-15.0		10-11-182	24-7-A	11/19/10 10:19	Solid	GC	22	11/24/10	11/25/10 02:13	101124B01
Comment(s): -Results were ev	aluated to the MDL	., concentrations >=	to the	MDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>		Qual	Ur	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg.	/kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	84	42-126								
B4@19.5-20.0		10-11-182	4-8-A	11/19/10 10:20	Solid	GC	22	11/24/10	11/25/10 02:46	101124B01
Comment(s): -Results were ev	aluated to the MDL	, concentrations >=	to the l	VIDL but < RL,	if found,	are qualifie	ed with	a "J" flag.		
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>Ur</u>	<u>its</u>		
TPH as Gasoline	ND	0.50	0.42	1		ป	mg/	kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	84	42-126								

RL - Reporting Limit

DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1824 EPA 5030C EPA 8015B (M)

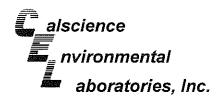
Project: ExxonMobil 99105

Page 3 of 3

Troject. Exxonivicon co				See 2020 1 200000 200000 20000						
Client Sample Number		Lab Sampl Number	e	Date/Time Collected	Matrix	Instru	ument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5@14.5-15.0		10-11-18:	24-9-A	11/19/10 10:55	Solid	GC	22	11/24/10	11/25/10 03:18	101124B01
Comment(s): -Results were eva	luated to the MDL	., concentrations >	= to the	MDL but < RL,	if found,	are qualit	fied with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>Ur</u>	<u>iits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg/	/kg		
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene	78	42-126								
B5@19.5-20.0		10-11-182	24-10-A	11/19/10 11:00	Solid	GC	: 22	11/24/10	11/25/10 03:51	101124B01
Comment(s): -Results were eva	luated to the MDL	, concentrations >	to the	MDL but < RL,	if found,	are qualif	ied with	a "J" flag.		
Parameter	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Quai	<u>Un</u>	<u>iits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg/	kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene	90	42-126								
Method Blank		099-12-27	79-4,118	N/A	Solid	GC	22	11/24/10	11/24/10 13:09	101124B01
Comment(s): -Results were eval	luated to the MDL	, concentrations >=	to the I	MDL but < RL,	if found,	are qualif	ied with a	a "J" flag.		
Parameter	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>		Qual	<u>Un</u>	<u>its</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg/	kg		
Surrogates:	REC (%)	Control Limits				Qual				
1,4-Bromofluorobenzene - FID	87	42-126								

A. A.

DF - Dilution Factor ,





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

Date Received: Work Order No: Preparation: Method:

Units:

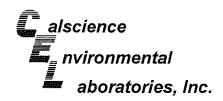
10-11-1824 **EPA 5030C EPA 8260B** mg/kg

11/23/10

Project: ExxonMobil 9910	05										Page	1 of	6
Client Sample Number			Lab Sa Numi			Date/Time Collected	Matrix	Instrument	Date Prepa		te/Time alyzed ⁽	QC Bat	ch ID
B3@12.0-12.5			10-11-	1824-	1-A	11/19/10 09:05	Solid	GC/MS FF	11/29/		/29/10 ₁ 19:11	01129	LO1
Comment(s): -Results were eval	luated to th	ne MDL, c	oncentratio	กร >=	to the I	MDL but < RL, i	f found, are	e qualified wi	th a "J" flaç	j .			
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Quai	<u>Parameter</u>			<u>Result</u>	<u>RL</u>	MDL	DF	Qual
Benzene	ND	0.0050	0.00020	1	IJ	Methyl-t-Buty	l Ether (MT	BE)	ND	0.0050	0.00025	1	IJ
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alc	ohol (TBA))	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl E	ther (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl i	Ether (ETB	E)	ND	0.010	0.00028	1	Ų
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Me	thyl Ether	(TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U								
Surrogates:	REC (%)	Control	Qua			Surrogates:			REC (%)		Qua	<u>l</u>	
Dil	400	<u>Limits</u> 63-141				4.0.0:			400	<u>Limits</u> 62-146			
Dibromofluoromethane	100					1,2-Dichloroe			108				
Toluene-d8	102	80-120				1,4-Bromofluo	probenzene)	103	60-132			
B3@19.5-20.0		APRICATE AND APRICATE AND APRICATE AND APRICATE AND APRICATE AND APRICATE AND APRICATE APRICATE AND APRICATE AP	10-11-1	824-2	:-A	11/19/10 09:20	Solid	GC/MS FF	11/29/1		29/10 ₁ 9:39	01129	L01
Comment(s): -Results were eval	uated to th	e MDL, co	oncentratio	กร >=	to the N		found, are	qualified wit	h a "J" flag				
• •	Result	RL	MDL	DF	Qual	Parameter	•	•	Result	RL	MDL	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl	Ether (MT	BE)	ND	0.0050	0.00025	1	U
1.2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alc	•	,	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Et	her (DIPE)		ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl E	ther (ETBI	≣)	ND	0.010	0.00028	1	U
-	ND	0.0050	0.00029	1	U	Tert-Amyl-Me	•	•	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U	•	•	•					
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:			REC (%)	Control Limits	Qua	!	
Dibromofluoromethane	101	63-141				1.2-Dichloroet	hane-d4		112	62-146			
	101	80-120				1,4-Bromofluo			101	60-132			

RL - Reporting Limit ,

DF - Dilution Factor ,





60-132

101

ETIC	Engineering, Inc.
2285	Morello Avenue

Date Received: Work Order No:

11/23/10 10-11-1824 EPA 5030C

Pleasant Hill, CA 94523-1850

Preparation: Method:

EPA 8260B

Units:

mg/kg Page 2 of 6

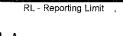
Project:	ExxonMobil	991	05
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3@14.5-15.0	10-11-1824-3-A	11/19/10 09:10	Solid		11/29/10	11/29/10 20:07	101129L01
Comment(s): -Results were evaluated to the MDL, of	oncentrations >= to th	e MDL but < RL, i	if found, a	e qualified with	a "J" flag.		

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qua
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
,2-Dibromoethane	ND	0.0050	0.00025	1	Ū	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	Ü
,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	Ų
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Foluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	<u>REC (%)</u>	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	<u>Qua</u>	<u>l</u>	
Dibromofluoromethane	101	63-141				1,2-Dichloroethane-d4	108	62-146			
Toluene-d8	99	80-120				1.4-Bromofluorobenzene	105	60-132			

B3@17.0-17.5			14/20/40 11/29/10 4044201.04
	10-11-1824-4-A	11/19/10 Solid GC/MS FI	11/29/10 11/29/10 1011291.01
			11/29/10 11/29/10 101129L01
		09:15	20:36
and the state of t			

Comment(s):	-Results were evalu	ated to the	e MDL, co	ncentratio	пs >=	to the M	IDL but < RL, if found, are qualified v	ith a "J" flag				
<u>Parameter</u>	<u> </u>	Result	RL	MDL	<u>DF</u>	<u>Qual</u>	Parameter	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual
Benzene	١	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	e N	ND.	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane) N	ND.	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	N	ΝD	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	V	ND.	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	١	VD.	0.0050	0.00032	1	U						
Surrogates:	E	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	<u>Qual</u>		
Dibromofluorometh	ane 1	104	63-141				1.2-Dichloroethane-d4	112	62-146			



Toluene-d8

101

80-120

1,4-Bromofluorobenzene





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received: Work Order No:

Preparation: Method:

Units:

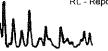
11/23/10

10-11-1824 **EPA 5030C**

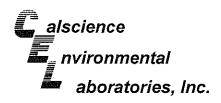
EPA 8260B mg/kg

Project: ExxonMobil	99105								Page	3 of	6
Client Sample Number			Lab Sa Numi	•		Date/Time Collected Matrix Instrumer	Date it Prepai		e/Time alyzed	QC Ba	tch ID
B2@14.5-15.0			10-11-1	1824-5	A	11/19/10 Solid GC/MS F 09:55	F 11/29/		/29/10 4:56	101129	3L01
Comment(s): -Results we	ere evaluated to th	ie MDL, c	oncentration	ons >=	to the N	ADL but < RL, if found, are qualified w	vith a "J" flaç).			
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF	Qual	<u>Parameter</u>	Result	RL	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	; 1	Ū
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	Ü
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	. 1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	Ü
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	<u>Qual</u>	l		Surrogates:	REC (%)	Control Limits	<u>Qu</u>	<u>al</u>	
Dibromofluoromethane	101	63-141				1,2~Dichloroethane-d4	107	62-146			
Toluene-d8	101	80-120				1,4-Bromofluorobenzene	101	60-132			
B2@19.5-20.0			10-11-1	824-6	A	11/19/10 Solid GC/MS FF 10:00	11/29/1		29/10 1:04	01129	L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.											
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	DF	Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	IJ
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	Ü	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control	Qual			Surrogates:	REC (%)	Control	Qual		
-		Limits						Limits			
Dibromofluoromethane	103	63-141				1,2-Dichloroethane-d4	115	62-146			
Toluene-d8	103	80-120				1,4-Bromofluorobenzene	102	60-132			



DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No: Preparation: Method:

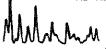
11/23/10

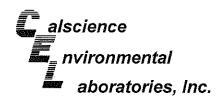
10-11-1824 EPA 5030C

EPA 8260B

						Units:			r	ng/k	
Project: ExxonMobil 991	05								Page 4	_	~
Client Sample Number			Lab Sa Num			Date/Time Collected Matrix Instrumen	Date t Prepa		e/Time alyzed ^C	(C Bat	ch ID
B4@14.5-15,0			10-11-	1824-	7.A	11/19/10 Solid GC/MS FI 10:19	= 11/29/		/29/10 ₁ !1:32	01129	L01
Comment(s): -Results were ev	aluated to th	ne MDL, d	oncentration	ons >=	to the f	MDL but < RL, if found, are qualified w	ith a "J" flag] .			
<u>Parameter</u>	Result	RL	MDL	DF	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	MDL.	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	Ü	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	Qua	ļ		Surrogates:	REC (%)	Control Limits	<u>Qua</u>	<u> </u>	
Dibromofluoromethane	103	63-141				1.2-Dichloroethane-d4	114	62-146			
Toluene-d8	102	80-120				1,4-Bromofluorobenzene	103	60-132			
B4@19.5-20.0			10-11-1	824-8	1,111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11/19/10 Solid GC/MS FF 10:20	11/29/		29/10 ₁ 2:00	01129	L01
Comment(s): -Results were eva	aluated to th	e MDL, c	oncentratio	ns >=	to the N	ADL but < RL, if found, are qualified wi	th a "J" flag	J.			
<u>Parameter</u>	Result	RL	MDL	<u>DF</u>	Qual	<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	104	63-141				1,2-Dichloroethane-d4	116	62-146			
Toluene-d8	102	80-120				1,4-Bromofluorobenzene	102	60-132			

DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No: Preparation:

Method: Units:

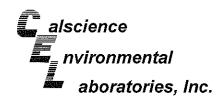
11/23/10

10-11-1824 EPA 5030C

EPA 8260B mg/kg

Project: ExxonMobil 99	105								Page	5 of	6
Client Sample Number			Lab Sa Num			Date/Time Collected Matrix Instrume	Date nt Prepa		e/Time		tch ID
B5@14.5-15.0			10-11-	1824-	9-A	11/19/10 Solid GC/MS F 10:55	F 11/29/		/29/10 ₁ !2:29	01129)L01
Comment(s): -Results were	evaluated to t	he MDL, c	oncentration	ons >=	= to the I	MDL but < RL, if found, are qualified v	vith a "J" flag	g.			
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF	Qual	<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	Qua
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	U	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)	ND	0.0050	0.00032	1	U						
Surrogates:	REC (%)	Control Limits	<u>Qua</u>	<u>l</u>		Surrogates:	REC (%)	Control Limits	Qua	<u>d</u>	
Dibromofluoromethane	103	63-141				1.2-Dichloroethane-d4	114	62-146			
Toluene-d8	101	80-120				1,4-Bromofluorobenzene	103	60-132			
B5@19.5-20.0		Annual Control of the	10-11-1	824-1	0-A	11/19/10 Solid GC/MS F 11:00	F 11/29/		29/10 ₁ 2:57	01129	L01
Comment(s): -Results were e	valuated to th	ne MDL, c	oncentratio	ns >=	to the N	### ##################################	ith a "J" flac		£.01		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND ND	0.0050	0.00025	1	U
1,2-Dibromoethane	ND	0.0050	0.00025	1	Ū	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	Ū
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	U
Xylenes (total)		0.0050	0.00032	1	U	, , , ,					
	ND	0.0050	0.00032	•	U						
Surrogates:	ND <u>REC (%)</u>	Control Limits	Qual	•	U	Surrogates:	REC (%)	Control Limits	Qua	!	
Surrogates: Dibromofluoromethane		Control		•	O	Surrogates: 1,2-Dichloroethane-d4	REC (%)		Qua	<u>l</u>	

DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

11/23/10

Work Order No: Preparation:

10-11-1824 EPA 5030C

Method: Units: EPA 8260B

mg/kg

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Project: ExxonMobil 99105

Page 6 of 6

Client Sample Number			Lab Sa Numi	•		Date/Time Collected Matrix Instrum	Date ent Prepa		e/Time alyzed C	C Bat	ch ID
Method Blank			099-12	796-4	,207	N/A Solid GC/MS	FF 11/29/		29/10 ₁ 4:28	01129	LO1
Comment(s): -Results w	ere evaluated to th	ne MDL, c	oncentratio	ns >=	to the N	ADL but < RL, if found, are qualified	with a "J" flag) .			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	<u>DF</u>	Qual	<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	Qual
Benzene	ND	0.0050	0.00020	1	U	Methyl-t-Butyl Ether (MTBE)	ND	0.0050	0.00025	1	Ų
1,2-Dibromoethane	ND	0.0050	0.00025	1	Ü	Tert-Butyl Alcohol (TBA)	ND	0.050	0.022	1	U
1,2-Dichloroethane	ND	0.0050	0.00026	1	U	Diisopropyl Ether (DIPE)	ND	0.010	0.00034	1	U
Ethylbenzene	ND	0.0050	0.00016	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	0.00028	1	U
Toluene	ND	0.0050	0.00029	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	0.00026	1	Ų
Xylenes (total)	ND	0.0050	0.00032	1	ប						
Surrogates:	REC (%)	Control Limits	Qual			Surrogates:	REC (%)	Control Limits	Qua	<u>l</u>	
Dibromofluoromethane	100	63-141				1,2-Dichloroethane-d4	105	62-146			
Toluene-d8	102	80-120				1,4-Bromofluorobenzene	101	60-132			

AC - Nepoling Li

DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1824 EPA 3550B EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	instrument	Date Prepared	d A	Date nalyzed	MS/MSD Batch Number
10:11:1917-2	Solid	GC 45	11/24/10		1/24/10	101124511
<u>Parameter</u>	MS %REC	MSD %REC 9	6REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	98	98	64-130	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1824 EPA 5030C EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date alyzed	MS/MSD Batch Number
B2@14.5-15.0	Solid	GC 22	11/24/10	1	/24/10	101124801
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	121	123	48-114	2	0-23	3

RPD - Relative Percent Difference ,





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method:

49-139

57-123

30-168

57-129

55-127

58-124

17-167

2

8

10

8

8

4

0-47

0-21

0-34

0-20

0-20

0-20

0-47

11/23/10 10-11-1824 EPA 5030C EPA 8260B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepare	d	Date Analyzed	MS/MSD Batch Number
B2@14.5-15.0	Solid	GC/MS FF	11/29/10		11/29/10	101129S01
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	97	61-127	3	0-20	
Carbon Tetrachloride	108	119	51-135	9	0-29	
Chlorobenzene	85	89	57-123	4	0-20	
1,2-Dibromoethane	90	95	64-124	5	0-20	
1,2-Dichlorobenzene	83	86	35-131	4	0-25	
1,2-Dichloroethane	99	101	80-120	1	0-20	
1,1-Dichloroethene	102	111	47-143	9	0-25	
Ethylbenzene	89	95	57-129	6	0-22	
Toluene	90	92	63-123	3	0-20	
Trichloroethene	92	95	44-158	4	0-20	

112

97

110

103

100

95

117

114

90

99

95

92

91

107

1 h 11

Vinyl Chloride

Ethanol

Methyl-t-Butyl Ether (MTBE)

Tert-Butyl Alcohol (TBA)

Diisopropyl Ether (DIPE)

Ethyl-t-Butyl Ether (ETBE)

Tert-Amyl-Methyl Ether (TAME)

RPD - Relative Percent Difference , CL - Control Limit





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1824 EPA 3550B EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bat Number	ch
099-12-275-3,773	Solid	GC 45	11/24/10	11/24/10	101124B11	
<u>Parameter</u>	LCS %REG	C LCSD %	<u>6REC %RE</u>	C CL RPD	RPD CL	<u>Qualifiers</u>
TPH as Diesel	89	89	75-	123 0	0-12	

RPD - Reis



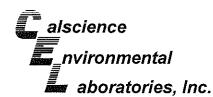


ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1824 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number	1
099-12-279-4,118	Solid	GC 22	11/24/10	11/24/10	101124B01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u>Parameter</u>	LCS %RE	C LCSD %	SREC %REC	CL RPD	RPD CL	Qualifiers
TPH as Gasoline	96	96	70-1	24 0	0-18	

Mulhan





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No:

Preparation: Method:

N/A

10-11-1824 EPA 5030C

EPA 8260B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared		ate yzed	LCS/LCSD Numbe	
099-12-796-4,207	Solid	GC/MS FF	11/29/10	11/29	/10	101129L	01
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	99	78-120	71-127	2	0-20	
Carbon Tetrachloride	119	119	49-139	34-154	0	0-20	
Chlorobenzene	93	93	79-120	72-127	1	0-20	
1,2-Dibromoethane	98	98	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	92	92	75-120	68-128	0	0-20	
1,2-Dichloroethane	103	103	80-120	73-127	0	0-20	
1,1-Dichloroethene	107	107	74-122	66-130	0	0-20	
Ethylbenzene	96	97	76-120	69-127	1	0-20	
Toluene	96	97	77-120	70-127	1	0-20	
Trichloroethene	99	100	80-120	73-127	1	0-20	
Vinyl Chloride	109	110	68-122	59-131	1	0-20	
Methyl-t-Butyl Ether (MTBE)	101	100	77-120	70-127	0	0-20	
Tert-Butyl Alcohol (TBA)	97	98	68-122	59-131	1	0-20	
Diisopropyl Ether (DIPE)	102	102	78-120	71-127	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	100	101	78-120	71-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	99	98	75-120	68-128	1	0-20	
Ethanol	96	101	56-140	42-154	5	0-20	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed:

LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 10-11-1824

Qualifier	<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
7	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.
В	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
1	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.
Χ	% 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.

a alscience a nvironmental a aboratories, inc.

ExxonMobil Engr:

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

Site Name	N. S. Mariana and S.					
Provide MRN to	jealkont	r jorn	ajori	orojjea	s	
Retail Project (N	IRN)		STANKA TENER			
Major Project (A	(FE)	E1.1996	.6013	5		
Project Name	Former M.					

CHAIN	OF	CUS	TODY	RECORD
DATE:	} /	// 9	1/20	10

DATE:		12010
PAGE: _	OF	

LABORATORY CLIENT:				****				 			
ExxonMobil c/o ETIC Engineering		GLOB	AL ID#	COEL	T LOG COD	E:					P.O.
ADDRESS: 2285 Morello Avenue			GLOBAL ID# T0600101855						4512012692		
CITY:				ONTAC	T:						LABUSEONLY
Pleasant Hill, CA 94523			Hamidou Barry, ETIC Engineering, Inc.						11-1824		
TEL: FAX:			SAMPLER(S): (SIGNATURE)							COOLER RECEIPT	
925-602-4710 Ext. 34 925-602-4720							Temp =°C				
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ 1	SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS						-	REQUE	STED A	NALVO	ie
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		 	T 1	<u> </u>					- IED A	IVEIO	13
RWQCB REPORTING ARCHIVE SAMPLES UNTIL		€		8260B						i "	
SPECIAL INSTRUCTIONS:		8015B(M)		BY 82							
edf file required, GLOBAL ID# T0600101855		88									
email report to eticlabreports@eticeng.com		dВY	BTEX BY 8260B	OXYGENATES*							
* 7 Oxygenates include MTBE, TBA, TAME, ETBE, DIPE, EDB, AND 1,2	DCA.	TPH-g/TPH-d	82	Ϋ́							
LAB SAMPLE ID LOCATION/ SAMPLING	NO. OF	<u>[</u>	<u> </u>	20							
USE SAMPLE ID LOCATION SAMPLING ONLY DESCRIPTION DATE TIME	MAT- CONT. RIX	ᇤ	<u>@</u>							-	
1 830/20-125	Soil 1			빆			+				CONTAINER TYPE
2 B 3 0 19.5 - ZOO 3 0930	3011 1	Θ	\Leftrightarrow	\Leftrightarrow							Acctate 6"co sicero- Ciner
3 83014.5-15.0		\Diamond	$\langle \cdot \rangle_{*}$	$\langle \cdot \rangle$	- -						Acetate Cinet
4 83817.0-17.5		\bowtie	➾	\Leftrightarrow		\vdash					
5 520145-150	- 	X	\Diamond	\Rightarrow			++				
6 BZ619-5-ZO.0 /000	111	X	*	\Rightarrow	····	┢					
7 340145-150 1019		K	ST.	$ \bigcirc$	$\neg \vdash$		+		++		
8 B 4 0 19.5-200 1020		X	X	X							
9 350 145-15.0 (055)		X	X	X	_		1-1				
10 350 19.5-20.0	VV	X	X	X						·	
			*								V
Relinquished by: (Signature)											
	Received by: (5	ignatur		1/1.	, 1	57					Date, & Time:
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COC\99105 COC soil	Received by: (S	ignatur	e)					10	0 1		Date, & Time/
000 103 103 COC SOII					***********			_WX.h.	Later	-	11/23/10 1000
								1///			





く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:

KOCH CARBON, CONOCO PHILLIPS, EKI, ETIC

Delivery Instructions:

Signature Type: SIGNATURE REQUIRED

515410131 Tracking #:

GARDEN GROVE

D92843A



Print Date: 11/22/10 15:19 PM Package 1 of 1

NPS

Send Label To Printer

Print All

Edit Shipment

Finish

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.

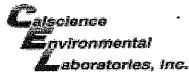
ADDITIONAL OPTIONS:

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 or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-11- 1 8 2 4

aboratories, inc. SAMPLE RECEIPT FORM Cooler of DATE: 11/23/10 CLIENT: TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C - 6.0 °C, not frozen) $2.7^{\circ}C + 0.5^{\circ}C (CF) = 3.2^{\circ}C$ 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. Initial: 🗹 Ambient Temperature: Air ☐ Filter CUSTODY SEALS INTACT: I**V** Cooler □ Not Present □ N/A ☐ No (Not Intact) Initial: Not Present ☐ No (Not Intact) Initial: □ Sample Yes N/A SAMPLE CONDITION: No Chain-Of-Custody (COC) document(s) received with samples..... COC document(s) received complete...... ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. ☐ No analysis requested. ☐ Not relinguished. ☐ No date/time relinquished. Sampler's name indicated on COC...... Sample container label(s) consistent with COC..... П Sample container(s) intact and good condition..... Proper containers and sufficient volume for analyses requested..... \Box \Box Analyses received within holding time..... pH / Residual Chlorine / Dissolved Sulfide received within 24 hours....... M Proper preservation noted on COC or sample container...... □ ☐ Unpreserved vials received for Volatiles analysis Volatile analysis container(s) free of headspace...... □ Tedlar bag(s) free of condensation..... □ **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 □125PBznna □100PJ □100PJna₂ □ □

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

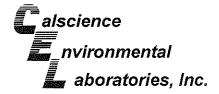
Air: □Tedlar[®] □Summa[®] Other: □ ____ Trip Blank Lot#:____ Labeled/Checked by:_

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ znna; ZnAc₂+NaOH f: Field-filtered Scanned by:

- 1F1 F

SOP T100_090 (09/13/10)

Reviewed by:





November 29, 2010

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

Subject:

Calscience Work Order No.: 10-11-1701

Client Reference:

ExxonMobil 99105

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/20/2010 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.

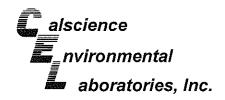
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile & se Sois

Calscience Environmental Laboratories, Inc. Cecile deGuia Project Manager

FAX: (714) 894-7501





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1701 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Page 1 of 1

Project: Exxoniviouii 99	าเบอ								ŧ	ayeron
Client Sample Number		Lab Sample Number	e	Date/Time Collected	Matrix	Instru	ment	Date Prepared	Date/Time Analyzed	QC Batch ID
Drum 4		10-11-170	1-1-A	11/17/10 16:10	Solid	GC	22	11/22/10	11/22/10 20:46	101122B01
Comment(s): -Results were eva	luated to the MDL	, concentrations >=	to the N	/IDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>U</u>	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene	78	42-126								
Method Blank		099-12-27	9-4,111	WA	Solid	GC	22	11/22/10	11/22/10 13:49	101122801
Comment(s): -Results were eval	luated to the MDL	, concentrations >=	to the N	/IDL but < RL,	if found,	are qualifi	ed with	a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>		Qual	<u>U</u>	<u>nits</u>		
TPH as Gasoline	ND	0.50	0.42	1		U	mg	/kg		
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene - FID	80	42-126								

Muhan_





62-146

60-132

113

ETIC Engineering, Inc.	Date Received:	11/20/10
2285 Morello Avenue	Work Order No:	10-11-1701
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Project: ExxonMobil 99105		Page 1 of 1

	Number	Collected	Matrix	Instrument	Prepared	Analyzed	QC Batch ID
rum:4	10-11-1701-1-A	11/17/10 16:10		GC/MS QQ	11/20/10	11/22/10 14:40	(OI)CELOI
		16:10					14:40

Comment(s): -Results were eva	aluated to th	ne MDL, c	oncentratio	ns >=	to the N	ADL but < RL, if found, are qualified w	ith a "J" flag	l.			
<u>Parameter</u>	Result	RL	<u>MDL</u>	DF	Qual	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF	<u>Qual</u>
Benzene	ND	0.0050	0.00020	1	U	Toluene	ND	0.0050	0.00029	1	Ų
Ethylbenzene	ND	0.0050	0.00016	1	U	Xylenes (total)	ND	0.0050	0.00032	1	IJ
Surrogates:	REC (%)	Control Limits	<u>Qual</u>			Surrogates:	REC (%)	Control Limits	<u>Qua</u>	1	
Dibromofluoromethane	99	63-141				1,2-Dichloroethane-d4	116	62-146			
Toluene-d8	98	80-120				1,4-Bromofluorobenzene	98	60-132			
Method Blank			3-14 Str. 300	11.000000000000000000000000000000000000	70 30 30 30 30 30 30 30 30 30 30 30 30 30	N/A Solid GC/MS QC)1122	

							•				
Comment(s):	 Results were evaluated to 	the MDL, o	concentration	วกร >=	to the N	ADL but < RL, if found, are qualified v	vith a "J" flag).			
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>
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	Qua	Į		Surrogates:	REC (%)	Control Limits	<u>Qua</u>	<u>l</u>	

1,2-Dichloroethane-d4

1,4-Bromofiuorobenzene

63-141

80-120

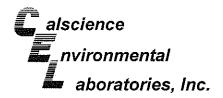
99

100

RL - Rep

Dibromofluoromethane

Toluene-d8





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

Date Received: Work Order No: Preparation: Method:

10-11-1701 **EPA 3050B** EPA 6010B

11/20/10

Project: ExxonMobil	99105						F	Page 1 of 1
Client Sample Number		Lab Sa Num		ate/Time Collected M	latrix Instru	Date ument Prepared	Date/Time Analyzed	QC Batch ID
Drum 4		10-11	-1701-1-A 1	1/17/10 S 16:10	Solid ICP	5300 11/22/10	11/22/10 17:11	101122L01
Comment(s): -Results were	evaluated to the MD	L, concentration	s >= to the MD	L but < RL, if f	ound, are qualit	ied with a "J" flag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>		
Lead	6.12	0.500	0.181	1		mg/kg		
Method Blank		097-0	1-002-14,378	N/A S	olid ICP	5300 11/22/10	11/22/10 17:07	_101122L01
Comment(s): -Results were	evaluated to the MD	L, concentration	s >= to the MD	L but < RL, if f	ound, are qualif	ied with a "J" flag.		
Parameter	<u>Result</u>	<u>RL</u>	<u>MDL</u>	DF	Qual	<u>Units</u>		
Lead	ND	0.500	0.181	1	U	mg/kg		





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1701 EPA 3050B EPA 6010B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyze	_	MS/MSD Batch Number
10-11-0093-3	Solid	ICP 5300	11/22/10	ologia a figlio di Sila di Maria di Sila di Maria di Sila di Maria di Sila di	10	101122S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Lead	102	105	75-125	3	0-20	

RPD - Relat



Quality Control - PDS / PDSD



ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received Work Order No: Preparation: Method: 11/20/10 10-11-1701 EPA 3050B EPA 6010B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepar	Date	e Analyzed	PDS / PDSD_Batch Number
10-11-0093-3	Solid	ICP 5300	11/22/1	0 1	1/22/10	101122801
<u>Parameter</u>	PDS %REC	PDSD %REC	%REC CL	<u>RPD</u>	RPD C	L Qualifiers
Lead	103	104	75-125	1	0-20	

RPD-Rela





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1701 EPA 5030C EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepare	ed .	Date Analyzed	MS/MSD Batch Number
10-11-1503-1	Solid	GC 22	11/22/1	0	11/22/10	101122801
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	68	75	48-114	8	0-23	

Muhana_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/20/10 10-11-1701 EPA 5030C EPA 8260B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepare	ed	Date Analyzed	MS/MSD Batch Number
Drum 4	Solid	GC/MS QQ	11/20/1		11/22/10	101122501
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	81	79	61-127	2	0-20	
Ethylbenzene	84	84	57-129	0	0-22	
Toluene	81	79	63-123	2	0-20	

RPD-Rela





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1701 EPA 3050B EPA 6010B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	instrument	Date Prepared	Date Analyzed	LCS/LCSD Numb	
097-01-002-14,378	Solid	ICP 5300	11/22/10	11/22/10	101122	01
Parameter	LCS %REG	C LCSD %	REC %R	REC CL R	<u>RPD RPD C</u>	L Qualifiers
Lead	112	112	8	0-120	0 0-20	

Muhm_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1701 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix lı	nstrument	Date Prepared	Date Analyzed	LCS/LCSD B Number	atch
099-12-279-4,111	Solid	GC 22	11/22/10	11/22/10	101122B0	1
<u>Parameter</u>	LCS %REC	LCSD %	REC %RE	EC CL RI	PD RPD CL	Qualifiers
TPH as Gasoline	102	100	70	-124 2	0-18	

MMMmm_





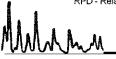
ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation:

Method:

N/A 10-11-1701 EPA 5030C EPA 8260B

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix Ir	nstrument	Date Prepared	Date Analyzed	LCS/LCSD Ba Number	atch
099-12-796-4,185	Solid G	C/MS QQ	11/22/10	11/22/10	101122L01	
<u>Parameter</u>	LCS %REC	LCSD	<u>%REC %RI</u>	EC CL RPD	RPD CL	<u>Qualifiers</u>
Benzene	88	86	78	3-120 1	0-20	
Ethylbenzene	92	92	76	3-120 0	0-20	
Toluene	89	89	77	'-120 1	0-20	





Glossary of Terms and Qualifiers



Work Order Number: 10-11-1701

<u>Qualifier</u>	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution,
	therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The
	associated method blank surrogate spike compound was in control and, therefore, the
•	sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out
	of control due to matrix interference. The associated LCS and/or LCSD was in control
4	and, therefore, the sample data was reported without further clarification. The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD
т	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.
В	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	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
ME	laboratory method detection limit. Reported value is estimated. 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.
Х	% 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.

Calscience Environmental Asboratories, Inc.

ExxonMobil Engr:

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

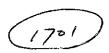
TEL: (714) 895-5494 . FAX: (714) 894-7501

Provide MRN for retail or AFE for major projects Retail Project (MRN) Major Project (AFE) E1.1996.60135 Project Name Former Mobil 99105

CHA			STODY RECORD
DATE:		11/	17/2010
PAGE:	1	OF	1

LABORATORY CLIENT:					*******************						
ExxonMobil c/o ETIC Engineering		GLOBAL ID #/ COELT LOG CODE:								P.O.	
ADDRESS: 2285 Morello Avenue		GLOBAL ID# T0600101855								4512012692	
CITY:		PROJECT CONTACT:								LAB USE ONLY	
Pleasant Hill, CA 94523		Ha	amid	ou Ba	rry, E	TIC E	nginee	ring, In	c.		1/2-/70/
TEL:		Hamidou Barry, ETIC Engineering, Inc.								COOLER RECEIPT	
925-602-4710 Ext. 34 925-602-4720						•					Temp =C
			ession		······································						
SAME DAY 24 HR 48 HR 72 HR 5 DAYS 2 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)	10 DAYS	REQUESTED ANALYSIS									
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RWQCB REPORTING ARCHIVE SAMPLES UNTIL / / SPECIAL INSTRUCTIONS:								Ì			
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email report to eticlabreports@eticeng.com		BY 8015B	909) BY				į			
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LOCATION/ SAMPLING	NO. OF	ja G	BTEX BY 8260B	TOTAL LEAD		1					
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COC\99105 COC soil	1	J	-,								Date, & Time:
	-	***************************************									L







<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: ETIC,CRA

Delivery instructions:

Signature Type: SIGNATURE REQUIRED Tracking #; 515398969

SDS

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GARDEN GROVE

D92843A

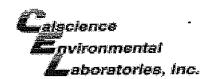


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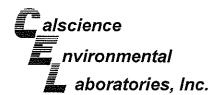
Print Date: 11/19/10 14:45 PM

Package 1 of 1



SAMPLE RECEIPT FORM Cooler _/ of _/

CLIENT: ETIC	DATE: _	11/2	0/10
TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozente comperature		☐ Samp	le .
	12 DIATIK	_ Jamp	10
☐ Sample(s) outside temperature criteria (PM/APM contacted by:).☐ Sample(s) outside temperature criteria but received on ice/chilled on same	day of compli	2	
		ng.	
☐ Received at ambient temperature, placed on ice for transport by C	ourer.	اسافات	y L
Ambient Temperature: ☐ Air ☐ Filter		initia	l:
CUSTODY SEALS INTACT:		an main and an even	
☑ Cooler □ □ No (Not Intact) □ Not Present	□ N/A	Initia	1: <u>Y</u> L
☐ Sample ☐ ☐ No (Not Intact) ☐ Not Present			1: <u>45c</u>
SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	.,D		
COC document(s) received complete	,		
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels	3.		
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	.7		
Sample container label(s) consistent with COC	۔		
Sample container(s) intact and good condition	P		
Proper containers and sufficient volume for analyses requested	Z		
Analyses received within holding time	Ø		
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours	. 🗆		
Proper preservation noted on COC or sample container	. 🗆		
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	. 🗆		
Tedlar bag(s) free of condensation CONTAINER TYPE:	. 🗆		9
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve () □EnCore	s [®] □TerraC	ores [®] □_	
Water: □VOA □VOAh □VOAna₂ □125AGB □125AGBh □125AGBp	□1AGB □	1AGB na ₂ []1AGB s
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs	□1PB □	500PB □5	00PB na
□250PB □250PBn □125PB □125PBznna □100PJ □100PJna₂ □			
Air: ☐Tedlar® ☐Summa® Other: ☐ Trip Blank Lot#: Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Preservative: h: HCL n: HNO2 na: Na2SaO2 na: NaOH n: HRO3 s: HaSO2 zna2: Znaca+NaOH f	•	-	NSC





December 09, 2010

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

Subject: Calscience Work Order No.: 10-11-1825

Client Reference:

ExxonMobil 99105

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/23/2010 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,

Pecille & se Sain

Calscience Environmental Laboratories, Inc. Cecile deGuia Project Manager





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1825 EPA 3510C EPA 8015B (M)

Project: ExxonMobil 99105

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BS	10-11-1825-1-G	11/19/10	Aqueous			11/24/10 19:34	

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.

<u>Parameter</u> Result <u>RL</u> MDL DF Qual Units ug/L TPH as Diesel ND 50 47 1 U Qual Surrogates: Control Limits REC (%) Decachlorobiphenyl 100 68-140

B5 10-11-1825-2-G 11/19/10 Aqueous GC 27 11/23/10 11/24/10 101123B14 13:00 19:52

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 <u>Units</u> TPH as Diesel ND 50 1 U ug/L Qual Surrogates: REC (%) **Control Limits** Decachlorobiphenyl 68-140 104

Method Blank 099-12-330-1,726 N/A Aqueous GC 27 11/23/10 11/24/10 101123B14 14:14

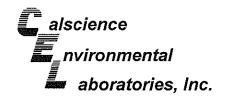
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

DF <u>Parameter</u> Result <u>MDL</u> Qual <u>Units</u> U 1 ug/L TPH as Diesel ND 50 47 <u>Qual</u> Surrogates: REC (%) Control Limits Decachlorobiphenyl 68-140 101

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method:

11/23/10 10-11-1825 **EPA 5030C** EPA 8015B (M)

Project: ExxonMobil 99105

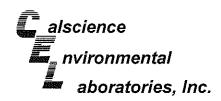
Page 1 of 1

Project: ExxonMobil	99105								<u></u>	age 1 of 1
Client Sample Number		Lab Sampl Number	е	Date/Time Collected	Matrix	Instrum		ate ared	Date/Time Analyzed	QC Batch ID
B3		10-11-182	25-1-E	11/19/10 12:34	Aqueous	GC-2	5 11/2	4/10	11/25/10 03:53	101124B01
Comment(s): -Results were e	evaluated to the MDL	_, concentrations >:	= to the	MDL but < RL	, if found, a	are qualified	d with a "J" f	lag.		
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	MDL	DF	. <u>(</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	50	48	1		U	ug/L			
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene	79	38-134								
B5		10-11-182	!5-2-E	11/19/10 13:00	Aqueous	GC 2	5 11/2	4/10	11/25/10 10:30	101124B02
Comment(s): -Results were a	evaluated to the MDL	., concentrations >=	to the	MDL but < RL	, if found, a	re qualified	l with a "J" f	lag.		
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>D</u> F	2	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	50	48	1		U	ug/L			
Surrogates:	REC (%)	Control Limits				<u>Qual</u>				
1,4-Bromofluorobenzene	82	38-134								
Method Blank		099-12-43	6-5,575	NA.	Aqueous	GC 2!	5 11/2	4/10	11/25/10 06:06	101124B02
Comment(s): -Results were e	valuated to the MDL	, concentrations >=	to the I	MDL but < RL,	if found, a	re qualified	with a "J" fl	lag.		
<u>Parameter</u>	<u>Result</u>	RL.	MDL	<u>DF</u>	<u>C</u>	<u>Qual</u>	<u>Units</u>			
TPH as Gasoline	ND	50	48	1		U	ug/L			
Surrogates:	REC (%)	Control Limits			9	Qual				
1,4-Bromofluorobenzene	81	38-134								
Method Blank		099-12-43	6-5,577	N/A	Aqueous	GC 25	5 11/24	¥10	11/24/10 13:59	101124B01
Comment(s): -Results were e	valuated to the MDL	, concentrations >=	to the N	MDL but < RL,	if found, a	re qualified	with a "J" fi	ag.		
Parameter	<u>Result</u>	<u>RL</u>	<u>MDL</u>	DF	<u>C</u>	}ual	<u>Units</u>			
ГРН as Gasoline	ND	50	48	1		U	ug/L			
Surrogates:	REC (%)	Control Limits			<u>(</u>	Qual				
1.4-Bromofluorobenzene	81	38-134								

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No: Preparation:

Method: Units:

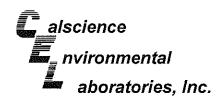
11/23/10

10-11-1825 **EPA 5030C**

EPA 8260B

ug/L

Project: ExxonMobil 99	105										Page	1 of	2
Client Sample Number			Lab Sa Num	•		Date/Time Collected	Matrix	Instrument	Date Prepa		ate/Time .nalyzed	QC Ba	tch ID
B\$			10-11-	1825-	1-A	11/19/10 12:34	Aqueous	GC/MS BB	11/30/	10 1	1/30/10 19:56	10113	0L03
Comment(s): -Results were e	valuated to ti	he MDL, c	oncentrati	ons >=	to the !	MDL but < RL	, if found, are	qualified wit	h a "J" flag	g.			
<u>Parameter</u>	Result	<u>RL</u>	MDL	DF	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	0.20	1	U	Methyl-t-Bu	tyl Ether (MT	BE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	Ų		Alcohol (TBA)		ND	10	4.0	1	U
1,2-Dichloroethane	8.7	0.50	0.075	1		Diisopropyl	Ether (DIPE))	ND	0.50	0.12	1	U
Ethylbenzene	0.053	0.50	0.043	1	J	Ethyl-t-Buty	l Ether (ETB	E)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-N	/lethyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	0.21	0.50	0.081	1	j								
Surrogates:	REC (%)	Control Limits	Qua	<u>1</u>		Surrogates:			REC (%)	Contro Limits	<u>Q</u>	<u>ual</u>	
1,2-Dichloroethane-d4	101	80-128				Dibromofluo	oromethane		99	80-127	7		
Toluene-d8	99	80-120				1,4-Bromof	uorobenzene	1	100	68-120)		
B5			10-11-	1825-2		11/19/10 13:00	Aqueous	GC/MS BB	11/30/	10 1	1/30/10 20:24	101130)L03
Comment(s): -Results were ev	aluated to th	ne MDL, c	oncentrati	ons >=	to the N	ADL but < RL	, if found, are	qualified wit	h a "J" flag	J .			
<u>Parameter</u>	Result	<u>RL</u>	MDL	<u>DF</u>	Qual	<u>Parameter</u>			Result	RL	<u>MDL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	0.20	1	U	Methyl-t-But	tyl Ether (MT	BE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	Ų	Tert-Butyl A	icohol (TBA)		ND	10	4.0	1	U
1,2-Dichloroethane	0.099	0.50	0.075	1	J	Diisopropyl	Ether (DIPE)		ND	0.50	0.12	1	Ų
Ethylbenzene	0.047	0.50	0.043	1	J	Ethyl-t-Buty	Ether (ETB	Ξ)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-N	lethyl Ether (TAME)	ND	0.50	0.12	1	U
Xylenes (total)	0.21	0.50	0.081	1	J								
Surrogates:	REC (%)	Control Limits	Qua	<u>l</u>		Surrogates:			REC (%)	Contro Limits	<u> Q</u>	<u>ıal</u>	
1,2-Dichloroethane-d4	102	80-128				Dibromofluo	romethane		98	80-127			
Toluene-d8	99	80-120				1,4-Bromofl	uorobenzene		99	68-120			





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

11/23/10 Work Order No: 10-11-1825

Preparation:

Method: **EPA 8260B** ug/L

Units:

EPA 5030C

Project: ExxonMobil 99105

Page 2 of 2

Client Sample Number			Lab Sa Num	•		Date/Time Collected	Vlatrix	Instrument	Date Prepar		te/Time alyzed	QC Bai	tch iD
Method Blank			099-10)-025-1	,813	N/A A	queous	GC/MS BB	11/30/	The second section is	/30/10 14:06	101130	JL03
Comment(s): -Results were e	valuated to the	ne MDL, c	oncentrati	ions >=	to the N	/IDL but < RL, if f	ound, are	e qualified wit	h a "J" flag	ı .			
<u>Parameter</u>	Result	<u>RL</u>	<u>MDL</u>	DF	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>MDL</u>	DF	Qual
Benzene	ND	0.50	0.20	1	U	Methyl-t-Butyl E	Ether (MT	BE)	ND	0.50	0.14	1	U
1,2-Dibromoethane	ND	0.50	0.23	1	U	Tert-Butyl Aicol	hol (TBA))	ND	10	4.0	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	IJ	Diisopropyl Eth	er (DIPE))	ND	0.50	0.12	1	U
Ethylbenzene	ND	0.50	0.043	1	U	Ethyl-t-Butyl Etl	her (ETB	E)	ND	0.50	0.25	1	U
Toluene	ND	0.50	0.25	1	U	Tert-Amyl-Meth	yl Ether	TAME)	ND	0.50	0.12	1	U
Xylenes (total)	ND	0.50	0.081	1	U								
Surrogates:	REC (%)	Control Limits	Qua	<u>al</u>		Surrogates:			REC (%)	Control Limits	<u>Qι</u>	<u>ıal</u>	
1,2-Dichloroethane-d4	94	80-128				Dibromofluoron	nethane		93	80-127			
Toluene-d8	98	80-120				1,4-Bromofluoro	obenzene	!	99	68-120			





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1825 EPA 5030C EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	instrumen	Date t Prepared		Date alyzed	MS/MSD Batch Number
10-11-1887-1	Aqueous	GC 25	11/24/10	11	/24/10	101124501
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Gasoline	98	97	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1825 EPA 5030C EPA 8015B (M)

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-11-1839-1	Aqueous	GC 25	11/24/10	11/25/10	101124802
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD RPD CI	Qualifiers
TPH as Gasoline	100	96	68-122	3 0-18	

RPD - Relative Percent Difference ,

CL - Control Limit





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 11/23/10 10-11-1825 EPA 5030C EPA 8260B

Project ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyz		MS/MSD Batch Number
10-11-1921-5	Aqueous	GC/MS BB	11/30/10	11/30	/10	101130501
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Danzana	101	100	76-124	1	0-20	
Benzene				<u>'</u>		
1,2-Dibromoethane	101	106	80-120	5	0-20	
1,2-Dichloroethane	101	102	80-120	2	0-20	
Ethylbenzene	103	101	78-126	2	0-20	
Toluene	100	99	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	96	103	67-121	6	0-49	
Tert-Butyl Alcohol (TBA)	114	111	36-162	3	0-30	
Diisopropyl Ether (DIPE)	95	97	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	91	95	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	96	100	65-120	4	0-20	
Ethanol	106	102	30-180	3	0-72	

Mulama_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1825 EPA 3510C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ch
099-12-330-1,726	Aqueous	GC 27	11/23/10	11/24/10	101123B14	
<u>Parameter</u>	LCS %R	EC LCSD %	<u> </u>	CL RPD	RPD CL	Qualifiers
TPH as Diesel	90	92	75-1	17 2	0-13	

RPD - Rela





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1825 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ch
099-12-436-5,577 A	Aqueous	GC 25	11/24/10	11/24/10	101124B01	1
<u>Parameter</u>	LCS %RE	C LCSD %	REC %REC	CL RPD	<u>RPD CL</u>	Qualifiers
TPH as Gasoline	102	100	78-1	20 2	0-10	

MMM MM_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1825 EPA 5030C EPA 8015B (M)

Project: ExxonMobil 99105

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bat Number	ch
099-12-436-5,575	Aqueous	GC 25	11/24/10	11/25/10	101124B02	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u>Parameter</u>	LCS %RI	EC LCSD %I	REC %RE	C CL RPD	RPD CL	Qualifiers
TPH as Gasoline	98	102	78-	120 4	0-10	

MM MM_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 10-11-1825 EPA 5030C EPA 8260B

Project: ExxonMobil 99105

Quality Control Sample ID	Sample ID Matrix Instrument		Date Prepared				Batch
099-10-025-1,813	Aqueous	GC/MS BB	11/30/10	11/30	/10	101130L0	13
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	94	94	80-120	73-127	0	0-20	
1,2-Dibromoethane	95	96	79-121	72-128	1	0-20	
1,2-Dichloroethane	94	94	80-120	73-127	1	0-20	
Ethylbenzene	98	98	80-120	73-127	0	0-20	
Toluene	93	93	80-120	73-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	89	91	69-123	60-132	2	0-20	
Tert-Butyl Alcohol (TBA)	111	109	63-123	53-133	2	0-20	
Diisopropyl Ether (DIPE)	89	91	59-137	46-150	1	0-37	
Ethyl-t-Butyl Ether (ETBE)	87	88	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	91	93	70-120	62-128	3	0-20	
Ethanol	104	104	28-160	6-182	1	0-57	

Total number of LCS compounds: 11

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 10-11-1825

Qualifier	<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
4	and, therefore, the sample data was reported without further clarification. The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD
7	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.
В	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.
1	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
ME	laboratory method detection limit. Reported value is estimated.
ND	LCS recovery percentage is within LCS ME control limit range. Parameter not detected at the indicated reporting limit.
Q	· · · · · · · · · · · · · · · · · · ·
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.

Calscience

Apvironmental

aboratories, Inc.

ExxonMobil Engr:

7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

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Site Name		
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DATE:	(1/19	10	
PAGE:		OF	1	

LABORATORY CLIENT:												
ExxonMobil c/o ETIC	ngineering		GL,ÖB,	AL ID #/	COELTL	OG CODE				· · · · · · · · · · · · · · · · · · ·		P.O.
ADDRESS: 2285 Morello Avenue			G	LOBA	AL ID#	# T060	0101855					4512012692
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Pleasant Hill, CA 9452			SAM	amid PLER(S)	Ou Ba	Irry, E	TIC Engl	neering,	lnc.	·····		11-1825
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TURNAROUND TIME SAME DAY 24 HR			┪		-2					***************************************		Temp = °C
SPECIAL REQUIREMENTS (ADDITIONAL	48 HR 72 HR 5	DAYS 10 DAYS						RE	QUEST	ED AN	ALYSIS	•
RWQCB REPORTING	ARCHIVE SAMPLES UNTIL	1 1	1		SO BO							
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edf file required, GLOE email report to eticlabrepo	PALID# 10600101855 rts@eticeng.com		8015B(M)	EPA 8260B	OXYGENATES* BY 8260B	EPA 8015B(M)						
			¥ 86	4 82	TES	A 80						
* / Oxygenates include MT	BE, TBA, TAME, ETBE, DIPE, EI	DB, AND 1,2-DCA.	y EPA	E G	¥							
LAB USE SAMPLE ID		MPLING MAT- NO. OF	g by	BTEX by	Z.G	d by						
DNLY	DESCRIPTION DATE	TIME RIX	TPH-9	3E	ŏ	TPH-d						
1 33	11/19/1	v 1234 Water /	 	<u> </u>	1	Ź			++			CONTAINER TYPE
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〈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:

KOCH CARBON, CONOCO PHILLIPS, EKI, ETIC

Delivery Instructions:

Signature Type: SIĞNATURE REQUIRED Tracking #: 515410131



GARDEN GROVE

D92843A



Print Date: 11/22/10 15:19 PM

Package 1 of 1

Send Label To Printer

Print All

Edit Shipment

Finish

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.

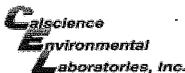
ADDITIONAL OPTIONS:

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 or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-11- [] 8 2 5

SAMPLE RECEIPT FORM Cooler 1 of _							
DATE: 11/23/10							
TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C - 6.0 °C, not frozen) Temperature 2 - 7 °C + 0.5 °C (CF) = 2 - 2 °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:							
CUSTODY SEALS INTACT:							
COSTODY SEALS IN FACT: □ Cooler □ □ No (Not Intact) □ Not Present □ N/A Initial: 1 □ Sample □ □ No (Not Intact) □ Not Present Initial: 1							
SAMPLE CONDITION: Yes No N/A							
Chain-Of-Custody (COC) document(s) received with samples							
COC document(s) received complete							
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.							
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.							
Sampler's name indicated on COC							
Sample container label(s) consistent with COC.							
Sample container(s) intact and good condition							
Proper containers and sufficient volume for analyses requested							
Analyses received within holding time							
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours							
Proper preservation noted on COC or sample container							
☐ Unpreserved vials received for Volatiles analysis							
Volatile analysis container(s) free of headspace							
Tedlar bag(s) free of condensation							
Solid:							
Water: □VOA ☑VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □1AGB □1AGBna₂ □1AGBs							
□500AGB ☑500AGJ □500AGJs □250AGB □250CGB □250CGBs □1PB □500PB □500PBna							
□250PB □250PBn □125PB □125PBznna □100PJ □100PJna ₂ □ □ □ □ □							
Air: Tedlar® Summa® Other: Trip Blank Lot#: Labeled/Checked by: Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 znna: ZnAc2+NaOH f: Field-filtered Scanned by:							

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Appendix F

Waste Documentation

CUSTOMER/BILLING INFORMATION

Date Received

Name (Print or Type)

GENERATOR INFORMATION



NON-HAZARDOUS WASTE MANIFEST

I hereby acknowledge receipt of the above described materials.	Generator Name:	EXX(ON MOBIL OIL CO	MPANY	Billing	Name	: <u>DILLARD</u>	ENVIRONM	IENTAL
State CA Zip: 905090229 State: CA Zip: 94514 Site Location (if different): 6301 SAN PABLO AVE., OAKLAND Republic Services Description of Waste Volume/Weight Expiration Date Approval # 38501019442 CONTAMINATED SOIL 3/DRUMS 6/30/2011 *Attach Additional Sheet if necessary I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. See Manifest Transporter Name: Date Signature Transporter Name: Transporter Name: Transporter Name: Transporter Name: Transporter Address: 3/20 Camino Trable L. Truck Number: 303 Phone Number: 125-634-6850 I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge. Placed Signature Date Delivered Disposal site information Disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site information disposal site inf	Address 3700	W. 190	TH STREET - TPT	- 3-14	Address	s <u>]</u>	POST OFFICE BO	OX 579	
Republic Services Approval # Description of Waste Volume/Weight Expiration Date Approval # Services Description of Waste Volume/Weight Services Approval # Services Description of Waste Volume/Weight Expiration Date Container Type Date Services Approval # Services Description of Waste Volume/Weight Expiration Date Container Type Date Services Date Description Date Services Date Description Date Description of Waste Date Description Date Date Date Date Date Date Date Date	City: TORRA	NCE	County:		City:	BY	RON	Coun	ity:
Site Address: Site Address: Container Container	State CA		Zip: _90509	0229	State:	CA	<u></u>	Z	Sip: 94514
Republic Services Approval # Approval # 38501019442 CONTAMINATED SOIL 3/DRUMS 6/30/2011 *Attach Additional Sheet if necessary I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. See Man Feet 12-2-10		(Terent):	6301 SAN PAB	LO AVE.,	OAKLAI	ND			
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Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. 12-2-10	*	Attach A	Additional Sheet if neo	essary	-				
TRANSPORTER INFORMATION Transporter Name: Transporter Address: Transporter Address: Transporter Address: Transporter Address: Transporter Address: Transporter Address: Truck Number: Truck Numb	Further, that the condition for tra	above r ansporta	tion according to the r	applicable re	egulations (of the	, packaged, marked Department of Tras	isportation.	
Transporter Name: Transporter Name: Dot 357045 Transporter Address: 3/70 2 mm0 Drable Ld Truck Number: 303 Phone Number: 975 634 6850 I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge. Transporter Address: Dotto Disposal Signature Date Delivered	taultarthor	mire of An							Date Shipped
Transporter Name: Transporter Address: Transporter Address: Truck Number: Tru	enerator/Antitor	, IZCU AS	Carranc	_					
Transporter Address: 3/20 Camino Viable Ld Truck Number: 363 Byten, CA 945/4 Phone Number: 925-634-6850 I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge. Callo Camino Viable Ld Phone No. Pho				TRANSP	ORTER I	(FOF	RMATION		÷
Transporter Address: 3/20 Ca mino Pixible La Truck Number: 363 Byten, CA 945/4 Phone Number: 925-634-6850 I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge. Januar Burke Januar Janu	Transporter Na	me:	Pollard				DOT#	35704	5
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I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge. Carolio			Buren C	4-945	19	P	hone Number:9	25-634	-6850
Taux Burke ame of Authorized Agent Date Delivered Disposal SITE INFORMATION Site Name: VASCO ROAD LANDFILL Phone No. 925 447 049 C C DEC 2 0 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I certify no hazz	ardous w his vehic	aste or other regulate	d substance	was knowi	ingly of my	introduced to the wi	aste while in m	y custody. The waste
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Site Address: VASCO ROAD LIVERMORE, CA DEC 2 0 20 hereby acknowledge receipt of the above described materials.	1/0//			DISPOSA	L SITE IN	FOR	MATION		property of the same of the sa
Site Address: 4001 VASCO ROAD LIVERMORE, CA DEC 2 0 20		.	ህ አፍሮስ ጀ	MATERN	JORILL.		Phone	No.	925 447 049 CHEIN
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27 (1 1 X 1	I hereby acknow	vledge re	eceipt of the above de	scribed mat	erials.		1		Diliard Trucking, In

4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491

021224 DILLARD ENVIRONMENTAL FO BOX 579

BYRON, CA 94514

Contract: 38501019442

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19,780.00 lb

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Incound - SCALE TICKET

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				Diilard B	Trucking, Inc. Iron, CA

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. All children must remain in vehicles.

Absolutely no salvaging allowed.

CUSTOMER

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, méasured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the division of Measurement Standards of the California Department of Food & Agriculture.

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