

Subsurface Investigation Report

Former Exxon Retail Site 7-4121 10605 Foothill Boulevard Oakland, California

Prepared for

ExxonMobil Oil Corporation 4096 Piedmont Avenue #194 Oakland, California 94611

Prepared by

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

Sherris Prall
Project Manager

Mark C. Peterson, C.E.G. #2085

Senior Geologist

Date

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SITE CONTACTS

Station Number:

Former Exxon Retail Site 7-4121

Station Address:

10605 Foothill Boulevard

Oakland, California

ExxonMobil Project Manager:

Jennifer C. Sedlachek

ExxonMobil Refining and Supply Company

4096 Piedmont Avenue #194 Oakland, California 94611

(510) 547-8196

Consultant to ExxonMobil:

ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, California 94523

(925) 602-4710

ETIC Project Manager:

Sherris Prall

Regulatory Oversight:

Barney Chan Alameda County

Health Care Services Agency

Environmental Health Services 1131 Harbor Bay Parkway Alameda, California 94502

(510) 567-6765

1. INTRODUCTION

At the request of ExxonMobil Oil Corporation (ExxonMobil), ETIC Engineering, Inc. (ETIC) observed the installation of nine onsite temporary soil borings (SB5-SB13) at former Exxon Retail Site (RS) 7-4121, located at 10605 Foothill Boulevard, Oakland, California (Figure 1).

The soil boring installations were conducted in accordance with the work proposed in the Work Plan for Additional Site Assessment dated April 2005 (ETIC 2005), and the e-mail modification to the Work Plan dated 19 May 2005, which were approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated 19 May 2005. Copies of correspondence with the ACHCSA are provided in Appendix A. Permits to install the soil borings were acquired from the ACHCSA and are included in this report in Appendix B. This report documents the results of the soil boring installations and presents the findings of a file review conducted for the site.

Scope of Work

The investigation consisted of the following activities:

- On 26 and 27 May 2005, nine temporary soil borings (SB5-SB13) were drilled to approximately 25 feet below ground surface (bgs). The locations of the borings are shown in Figure 2.
- Soil samples were collected during drilling activities at intervals of 5 feet or less and selected samples, based on field measurements, were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and diesel (TPH-d) by EPA Method 8015B, for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and for methyl tertiary butyl ether (MTBE) by EPA Method 8260B.
- Groundwater samples were collected from the temporary soil borings and were analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B.
- A file review was performed, as requested by the ACHCSA, to determine if there were any available documents regarding the underground storage tanks or any additional environmental assessments which were conducted at the site.

2. SITE BACKGROUND

2.1 SITE LOCATION, HISTORY, AND LAND USE

Former Exxon RS 7-4121 is currently a small landscaped area located at 10605 Foothill Boulevard, Oakland, California, on the southeast corner of the intersection of Foothill Boulevard and 106th Avenue (Figure 2). An aerial photo showing the site location and layout is shown in Figure 3. The property is currently owned by MacArthur Boulevard Associates and has a shopping center and a residential area nearby. According to internal Exxon Company, U.S.A. correspondence, the underground storage tanks were removed from the site between 20 October 1981 and 15 June 1982.

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS

In December 1998, AEI Consultants (AEI) performed a geophysical survey (magnetometry and ground-penetrating radar) to ascertain the presence of underground storage tanks (USTs) at the site (AEI 2004). No underground anomalies indicative of remaining USTs were identified (AEI 2004). Also, the ACHCSA letter dated 22 March 2005 (Appendix A) indicated that the UST system was removed from the site prior to December 1998.

In March 2004, AEI conducted a subsurface investigation at the site in order to collect soil and grab groundwater samples. Four soil borings (SB-1 through SB-4) were advanced to depths of 8 feet bgs (SB-3 and SB-4), 16 feet bgs (SB-1), and 22 feet bgs (SB-2) (AEI 2004). TPH-g was detected in soil samples at concentrations up to 1,000 milligrams per kilogram (mg/kg), TPH-d was detected up to 590 mg/kg, benzene was detected in one soil sample (SB-1) at 0.55 mg/kg, and MTBE was not detected above laboratory reporting limits in any of the soil samples. TPH-g and TPH-d were detected in groundwater samples at concentrations up to 7,000 micrograms per liter (μ g/L) and 26,000 μ g/L, respectively. Benzene was detected in groundwater samples at concentrations up to 250 μ g/L, and MTBE was not detected above the laboratory reporting limit of 17 μ g/L in any of the groundwater samples. Soil and groundwater analytical results are provided in Tables 1 and 2.

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located within the Coast Range Geomorphic Province on the eastern side of San Francisco Bay near the base of the western flank of the Diablo Range. The site is approximately 1,000 feet west of the Hayward Fault Zone through which traces of the Hayward Fault have been mapped. The former Exxon site is underlain at depth by Jurassic-age volcanic and highly altered volcanic rock. Bedrock mapped near the site includes the Coast Range ophiolite which consists of basalts, diabase, and gabbro (Braymer 2000). Immediately west of the site are Holocene age alluvial fan and fluvial deposits which are mostly confined to narrow drainage valleys in the immediate area and spread out toward the west on the San Francisco Bay plain. The site is at an elevation of approximately 80 feet and the local topography slopes to the west toward San Francisco Bay.

The nearest surface water body to the site is the San Leandro Creek, located approximately 2,500 feet south of the site.

2.4 LOCAL GEOLOGY AND HYDROGEOLOGY

The geology and hydrogeology of the site have been evaluated using the boring logs from this investigation and boring logs from the previous site investigation. The majority of the native soils encountered during drilling generally consist of silty to sandy clay from ground surface to between 17 and 19 feet bgs and silty to clayey sand underlying the clay to approximately 25 feet bgs, the total depth explored. The exception is boring SB7, in which clayey sand interrupts the clay from approximately 10 to 16 feet bgs. Detailed soil descriptions are presented on the boring logs in Appendix C.

During this investigation, depth to groundwater at the site was first encountered between approximately 18 and 20.5 feet bgs and stabilized at approximately 11-15 feet bgs.

3. FILE REVIEW

As requested by the ACHCSA, a file review was conducted for the site. The following agencies and resources were utilized:

- Regional Water Quality Control Board, San Francisco Bay Region
- City of Oakland Fire Department
- ExxonMobil internal files
- NETR Real Estate Research & Information, Historical Chain of Title Report
- California State Water Resources Control Board Geotracker System
- Environmental Data Resources (EDR) Report with a search of available environmental records and a one-mile radius search for other sites which have environmental investigations
- EDR Historical Aerial Photo Search
- EDR City Directory Abstract
- EDR Sanborn Map Report
- EDR Historical Topographic Map Report

At the request of the ACHCSA, ETIC attempted to find any available information related to the USTs that were removed from the site. ETIC requested files from the Regional Water Quality Control Board San Francisco Bay Region (RWQCB), Oakland Fire Department (OFD), ExxonMobil, NETR Real Estate Research & Information (NETR), and EDR. The RWQCB and OFD reported that they had no information for this site. Available information for two sites in the vicinity of the site was downloaded from the California State Water Resources Control Board Geotracker System; however, no information was available for the subject site.

ExxonMobil provided a file with documents pertaining to the leasing of the property. Based on the file review, it was unclear when the lease was initiated, but internal correspondence indicates that the lease was terminated in October 1981. A limited amount of information was found regarding USTs. The file contained annual inventory sheets listing USTs and associated piping. Internal Exxon Company, U.S.A. (now ExxonMobil) correspondence dated 20 October 1981 indicated that management approval had been given to remove the USTs and associated piping. A letter dated 15 June 1982 indicated that the USTs had been removed. This correspondence indicates that the USTs were removed between October 1981 and June 1982 (Appendix D).

NETR provided a Historical Chain of Title Report based on records from the Alameda County Recorder's office beginning in 1940. The first conveyance is for 1962 and lists the State of California as Grantor, and Arthur Weisberg and Mildred C. Weisberg as Grantee. In 1984, the Weisbergs deeded the property to Drake Builders and Lloyd and Iris Colvin. In 1987, 1988, 1989, 1995, and 1999, a number of individuals shared interest in the property, until 12 March 1999 when the current owner, MacArthur Boulevard Associates, was granted title to the property. ExxonMobil is not listed as an owner of the property.

EDR provided a number of files for the site, including a City Directory Abstract, Sanborn Map Report, Historical Topographic Map Report, Radius Map, and Aerial Photography Print Service. A summary of the information is provided in Appendix E.

The City Directory includes a summary of review of business directories including city, cross reference, and telephone directories, if available, at approximately five-year intervals for the period from 1920 through 2002. The site is not listed from the period 1920-1965. In 1967, the property is listed as Foothill Enco Service Station. In 1975 and 1980, the property is listed as Exxon Product Service Stations.

Sanborn Maps are fire insurance maps that document historical property use. Sanborn Maps for 1926, 1949, 1952, 1959, 1960, and 1961 show the property as a vacant lot. Sanborn Maps for 1965, 1968, and 1969 show a building labeled "gas and oil."

Historical Topographic Maps for 1899, 1948, 1959, 1959 photorevised in 1968, 1959 photorevised in 1973, 1959 photorevised in 1980, and 1993 of the San Leandro, Howard, or Hayward Quadrangles were available for review. Six topographic maps of adjoining quadrangles were also in the report. The topographic maps show the site as being in an area between the steep hills of the East Bay and the flatter areas of the San Francisco Bay Plain. Topography at the site slopes gently toward the San Francisco Bay.

The Radius Map includes a search of available environmental records of properties in various environmental databases that are located within 1/4, 1/2, and 1 mile of the site. The properties are plotted on a map and listed under the environmental database in which it was found. The Table of Contents and Executive Summary of this Radius Map Report are included in Appendix F.

Six sites located near the site and listed below are identified as being in one or more of the Cortese, Notify 65, Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Facility Inventory Database (CA FID), Historical UST (HIST UST), and State or Local ASTM Supplemental (CA SLIC) environmental databases:

•	Southland Project	10501 Foothill Blvd.
•	USA Petroleum/	
	Foothill Square Shopping Ctr	10700 Macarthur Blvd.
•	Arco	10600 Macarthur Blvd.
•	Shell #13-5676	230 Macarthur Blvd.
•	Kaiser Permanente Medical Center	280 Macarthur Blvd.
•	Macarthur Auto Service Center	10511 Macarthur Blvd.

The subject site is listed in the LUST database only.

Aerial Photos from various years were included in the EDR Aerial Photography Print Service Report. Aerial photos from 1939, 1946, and 1958 show the property as being either a field or a vacant, grassy lot. The 1965 aerial photo shows a building and what appears to be dispenser islands. In the 1982, 1993, and 1998 aerial photos the building and dispensers islands are no longer on the site.

Two sites, Southland Project and USA Petroleum, are listed in Geotracker. No information was available for the Southland Project. A 1st Quarter 2005 Groundwater Elevation Contour Map and Groundwater Analytical Summary Map were available for the Former USA Service Station No. 57 (USA Petroleum), located at 10500 Macarthur Boulevard.

4. SUBSURFACE INVESTIGATION

ETIC observed the installation of nine temporary soil borings (SB5-SB13) on 26 and 27 May 2005. The soil borings were installed using the direct-push single-tube method. Permits to install the borings were obtained from the ACHCSA prior to drilling and are included in Appendix B. The locations of the borings are shown on Figure 2.

The boring locations were selected to define the extent of dissolved-phase hydrocarbons in soil and groundwater at the site. The actual locations of borings were moved slightly from proposed locations due to the presence of underground utilities and site physical features such as overhead electrical lines and planter boxes.

4.1 DRILLING OF SOIL BORINGS

The borings were drilled on 26 and 27 May 2005 by Vironex Environmental Field Services (Vironex) of San Leandro, California (C-57 license #705927), using a 5400 Geoprobe rig equipped with a 3.25-inch-diameter macro-core sample barrel and 4 foot polyvinyl liners. The borings were drilled to a depth of approximately 25 feet bgs.

The borings were cleared on 26 and 27 May 2005 by Vironex with a probe and hand auger to ensure that there were no obstructions near the potential path of the augers. Each boring was cleared to a depth of 5 feet bgs. The borings were continuously logged from the base of the cleared hole to the total depth, and selected soil samples were collected from each boring for laboratory analysis. The sample barrel and downhole equipment were pressure washed before drilling began and upon completion of each borehole. Equipment rinsate was collected in a 5-gallon bucket and removed from the site. Field methods and procedures are described in the protocols, presented in Appendix G.

4.2 SOIL SAMPLING

Soil samples were collected by driving a 3.25-inch-diameter macro-core sample barrel containing 4-foot polyvinyl liners into undisturbed soil. The samples were examined for soil characteristics and screened in the field with a photo ionization detector (PID) to determine the relative hydrocarbon content. The soils are described and the PID readings are recorded on the soil boring logs presented in Appendix C. Selected soil samples were sealed with Teflon tape, capped, labeled, placed in a cooler with ice, and submitted to a state-certified laboratory for analysis.

4.3 GROUNDWATER SAMPLING

Groundwater samples were collected from the borings on 26-27 May 2005. In each boring, temporary wells were constructed using 1-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and 0.010-inch machine-slotted Schedule 40 PVC casing. Grab groundwater samples were collected from the temporary wells using 0.25-inch-diameter polyethylene tubing equipped with a check valve at the bottom. The samples were submitted to a state-certified laboratory for analysis. The groundwater monitoring and sampling procedures are described in Appendix G.

4.4 WASTE CONTAINMENT AND DISPOSAL

The soil generated during drilling activities was collected in two 55-gallon drums and temporarily stored on the site. Soil samples were collected from the drums, submitted to TestAmerica Incorporated (TestAmerica), a California state-certified laboratory in Nashville, Tennessee, composited by the laboratory, and analyzed for TPH-g, BTEX, and total lead in order to characterize the soil for proper disposal. The laboratory analytical report and chain-of-custody documentation are included in Appendix H. The soil will be removed from the site and transported to an ExxonMobil-approved facility.

Equipment rinsate water was removed from the site and transported to an ExxonMobil-approved facility.

5. RESULTS

5.1 SITE GEOLOGY AND HYDROGEOLOGY

Soils encountered during the drilling of the borings were generally consistent with those observed in previous borings at the site. The majority of the native soils encountered during drilling generally consist of silty to sandy clay from ground surface to between 17 and 19 feet bgs and silty to clayey sand underlying the clay to approximately 25 feet bgs, the total depth explored. Detailed soil descriptions are presented on the boring logs in Appendix C.

Prior to grab groundwater sampling, water levels in each boring were measured. The depths to water in borings SB5-SB13 ranged from 10.8 to 15.3 feet bgs.

5.2 SOIL SAMPLE ANALYTICAL METHODS AND RESULTS

Selected soil samples, based on field measurements, were submitted to TestAmerica and analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B. Analytical results are summarized in Table 1. The laboratory analytical reports and chain-of-custody documentation are included in Appendix H.

- Benzene was detected in the soil samples at a maximum concentration of 1.58 mg/kg in boring SB9 (24.5-25.0 feet bgs). Benzene concentrations ranged from 0.0010 mg/kg (SB8, 17.5-18') to 0.0414 mg/kg (SB8, 24.5-25') in samples collected from borings SB8, SB11, and SB13 between 17.5 and 25 feet. Benzene was not detected above laboratory reporting limits in samples collected from borings SB5-SB7, SB10, and SB12.
- TPH-g was detected at a maximum concentration of 279 mg/kg in the soil sample collected from boring SB9 at 24.5-25 feet bgs. TPH-g was also detected in boring SB8 at concentrations of 11.2 mg/kg (21.5-22 feet bgs) and 10.2 mg/kg (24.5-25 feet bgs). TPH-g was not detected above laboratory reporting limits in any other samples at any other depths in borings SB8 and SB9 or in samples from any other boring.
- TPH-d was detected at 10.6 and 10.2 mg/kg in soil samples collected from boring SB5 (24.5-25 feet bgs) and boring SB6 (5-5.5 feet bgs), respectively. TPH-d was not detected above laboratory reporting limits in any other samples at any other depths in borings SB5 and SB6 or in samples from any other boring.
- MTBE was not detected above laboratory reporting limits in any of the soil samples.

5.3 GROUNDWATER SAMPLE ANALYTICAL METHODS AND RESULTS

Grab groundwater samples were collected from borings SB5-SB13. The samples were submitted to TestAmerica and analyzed for TPH-g and TPH-d by EPA Method 8015B, BTEX by EPA Method 8021B, and MTBE by EPA Method 8260B. Analytical results are summarized in Figure 4 and Table 2. The laboratory analytical reports and chain-of-custody documentation are included in Appendix H.

- Benzene was detected at a concentration of 75.7 μg/L in groundwater collected from boring SB8, and was not detected above laboratory reporting limits in groundwater samples collected from any other boring.
- TPH-g was detected at a maximum concentration of 2,250 μg/L in groundwater collected from boring SB11. Concentrations of TPH-g in groundwater samples collected from borings SB8, SB10, SB12, and SB13 ranged from 54.5 to 1,060 μg/L. TPH-g was not detected above laboratory reporting limits in groundwater samples collected from borings SB5-SB7, and SB9.
- TPH-d was detected at a maximum concentration of 801 μg/L in groundwater collected from boring SB8. Concentrations of TPH-d detected in borings SB5, SB7, and SB11-SB13 ranged from 57 to 701 μg/L. TPH-d was not detected above laboratory reporting limits in groundwater samples collected from borings SB6, SB9, and SB10.
- MTBE was detected at concentrations of 4.30 μg/L and 14.2 μg/L in borings SB12 and SB13, respectively. MTBE was not detected above laboratory reporting limits in the groundwater samples collected from any other boring.

6. SUMMARY AND RECOMMENDATIONS

On 26 and 27 May 2005, ETIC observed the installation of nine onsite temporary soil borings (SB5-SB13) at former Exxon RS 7-4121, located at 10605 Foothill Boulevard, Oakland, California.

Soils encountered during the drilling of the borings were generally consistent with those observed in previous borings at the site. Soils encountered during drilling generally consist of silty to sandy clay and silty to clayey sand to approximately 25 feet bgs, the total depth explored.

Soil samples were collected and selected samples were analyzed for TPH-g, TPH-d, BTEX, and MTBE. The maximum concentrations of benzene and TPH-g were 1.58 mg/kg and 279 mg/kg, respectively, in boring SB9 (24.5-25 feet bgs). TPH-d was detected at a maximum concentration of 10.6 mg/kg in boring SB5 (24.5-25 feet bgs). MTBE was not detected in any of the soil samples.

Grab groundwater samples collected from borings SB5-SB13 were analyzed for TPH-g, TPH-d, BTEX, and MTBE. Benzene and TPH-g were detected at maximum concentrations of 75.7 μg/L (SB8) and 2,250 μg/L (SB11), respectively. TPH-d was detected at a maximum concentration of 801 μg/L (SB8). MTBE was detected at a maximum concentration of 14.2 μg/L (SB13).

During this investigation, depth to groundwater at the site was first encountered between approximately 18 and 20.5 feet bgs and stabilized at approximately 11-15 feet bgs.

ETIC also performed a historical file review for the site. No additional environmental reports documenting the removal or investigation of USTs were identified. Based on the information available from various resources, the site was vacant from 1926 to approximately 1965 at which time it was a service station. The records indicate that the site was initially occupied by Enco Product Service Stations and then became a Humble Oil & Refining Company service station. Exxon Company, U.S.A. (now ExxonMobil) leased the property from approximately 1975 to 1981 when internal correspondence indicates that the lease was cancelled. Internal Exxon Company, U.S.A. correspondence dated June 15, 1982 indicates that the deactivation of the subject station had been completed and that the USTs had been removed.

Based on the available historical and current information for the site, ETIC concludes the following:

- The site has not had an operating service station on it for over 20 years.
- Observed hydrocarbon concentrations are relatively low in both soil and groundwater.
- Based on the records that indicate that the underground storage tanks were removed between 1981 and 1982 before MTBE was a gasoline additive, the observed MTBE concentrations in groundwater are likely from an offsite source. MTBE was only detected in soil borings SB12 and SB13, which suggests that the direction of a potential source is toward the northeast to northwest.

ETIC recommends that soil vapor samples be collected at the site for a human health risk assessment in preparation for case closure. A work plan describing the locations and method of collection of soil gas samples will be submitted within thirty days of the date of this report.

The analytical results of the soil gas samples will be compared to relevant Environmental Screening Levels to determine if remaining hydrocarbons pose a significant risk to public health. The analysis will be based on the most recent Regional Water Quality Control Board exposure pathway guidelines, accounting for complete direct and/or indirect exposure pathways associated with future site occupants and construction workers.

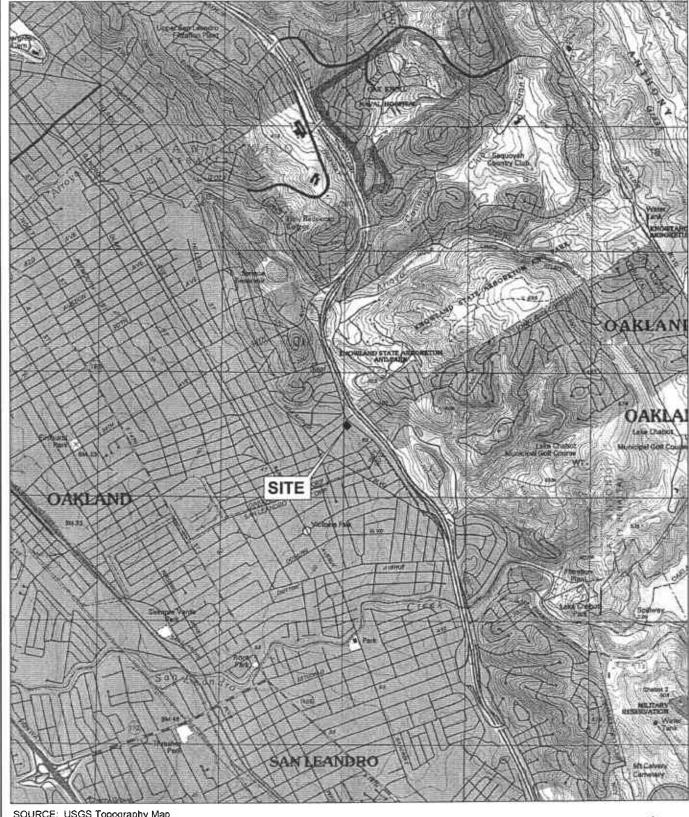
A case closure request will be submitted if the human health risk assessment indicates that closure is warranted for this site.

REFERENCES

AEI (AEI Consultants). 2004. Phase II Subsurface Investigation Report, Project No. 8311, 10605 Foothill Boulevard, Oakland, California. AEI, Walnut Creek, California. 7 April.

Braymer, R.W. 2000. Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California: United States Geological Survey, Miscellaneous Field Studies MF-2342, Version 1.0.

ETIC (ETIC Engineering, Inc.). 2005. Work Plan for Additional Site Assessment, Former Exxon Retail Site 7-4121, 10605 Foothill Boulevard, Oakland, California. ETIC, Pleasant Hill, California. April.



SOURCE: USGS Topography Map







106th AVENUE **SIDEWALK** ⊚ SB-13 SB-12 SB-1 ● ⊚ SB-10 **FORMER USTs FORMER** SB-9_⊚ DISPENSER SB-2 **ISLANDS** RESIDENCE ⊚ SB-11 SB-3 ⊚ SB-7 ⊚SB-5 ⊚ SB-6 SHOPPING CENTER **DRIVEWAY** LEGEND Soil Boring (Installed by AEI 3/19/04) Geoprobe Soil Boring (Installed by ETIC, May 2005) Property Line Approx. Scale (feet) Source: AEI Consultants, 30 March 2004. FIGURE: SITE PLAN

AAME STEUDIUS DANS (A)

FORMER EXXON RS 7-4121 10605 FOOTHILL BOULEVARD OAKLAND, CALIFORNIA

2



Photo Source: Terraserver USA

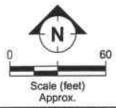
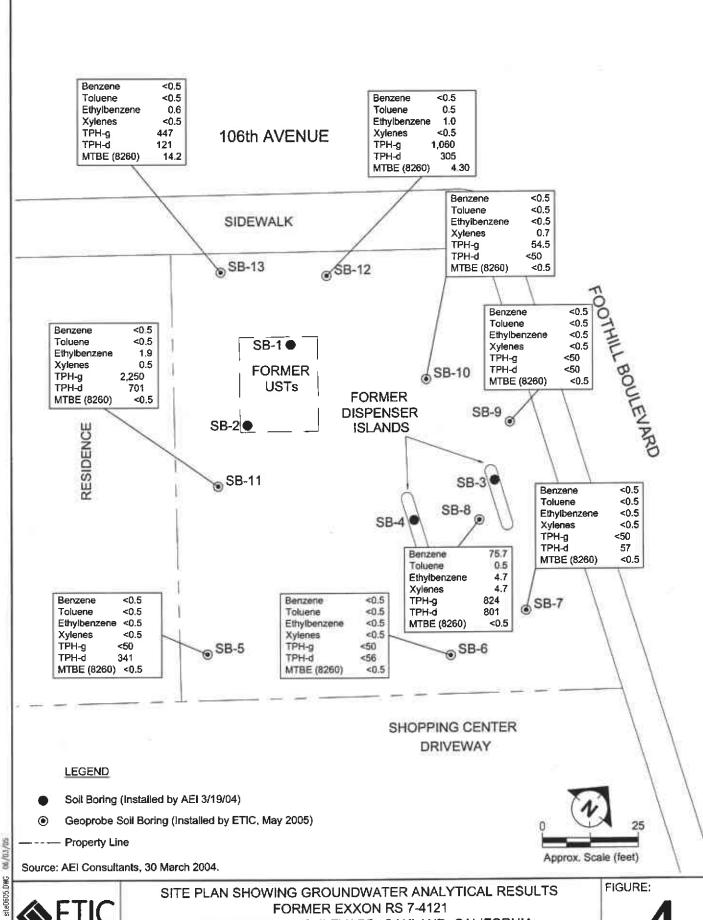


FIGURE:

AERIAL PHOTOGRAPH OF SITE AND VICINITY FORMER EXXON RS 7-4121 10605 FOOTHILL BOULEVARD OAKLAND, CALIFORNIA

SITE0705.DWC 07/13/05



ENGINEERING

10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA 26 AND 27 MAY 2005

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS FORMER EXXON RETAIL SITE 7-4121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

					Con	centration (mg	g/kg)		
Sample		Depth			Ethyl-	Total			
ID	Date	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE
SB-1	03/19/04	11	0.55	11	0.92	2.6	1,000	590	<2.5 ^a
SB-2	03/19/04	18	< 0.05	0.39	0.40	0.13	65	37	<0.5ª
SB-3	03/19/04	5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	<1.0	<0.05 ^a
									0.058
SB-4	03/19/04	5	< 0.005	< 0.005	< 0.005	< 0.005	<1.0	2.1	<0.05 ^a
cm=	0=1=10=		.0.004	-0.00=	-0.00#	-0.00#	-4.00	10.1	~0.00 3
SB5	05/26/05	5-5.5	< 0.001	<0.005	<0.005	<0.005	<4.98	<10.1	<0.002
SB5	05/26/05	17.5-18	< 0.001	<0.005	<0.005	<0.005	<4.97	<9.92	<0.002
SB5	05/26/05	24.5-25	< 0.001	<0.005	<0.005	< 0.005	<4.99	10.6	<0.002
CD/	05/37/05		∠0.001	~0.00 <i>5</i>	~0.00 <i>E</i>	<0.00E	<5.03	10.2	<0.002
SB6	05/26/05	5-5.5	<0.001	<0.005	<0.005	<0.005			<0.002
SB6	05/26/05	19.5-20	<0.001	<0.005	<0.005	<0.005	<5.03	<10.1	
SB6	05/26/05	21.5-22	<0.001	<0.005	<0.005	<0.005	<4.96	<10	<0.002
SB6	05/26/05	24.5-25	<0.001	<0.005	<0.005	<0.005	<4.98	<10	<0.002
SB7	05/26/05	5-5.5	<0.001	<0.005	<0.005	< 0.005	<5.02	<10.2	< 0.002
							<5.02 <5	<10.2	<0.002
SB7	05/26/05	18-18.5	<0.001	< 0.005	<0.005	<0.005		<10	
SB7	05/26/05	22.5-23	<0.001	<0.005	<0.005	<0.005	<4.96		<0.002
SB7	05/26/05	24.5-25	<0.001	<0.005	< 0.005	<0.005	<5.02	<10.2	<0.002
SB8	05/26/05	5-5.5	<0.001	<0.005	<0.005	<0.005	<4.97	<9.92	<0.002
SB8	05/26/05	17.5-18	0.0010 ^b	<0.005	<0.005	<0.005	<4.96	<9.92	< 0.002
SB8	05/26/05	21.5-22	0.0307	<0.005	0.0120	0.0205	11.2	<10	< 0.002
SB8		24.5-25	0.0307	0.0153	0.0120	0.0197	10.2	<10	<0.002
80.8	05/26/05	44.5-45	0.0414	0.0153	V.U104	0.0197	10.2	~10	~U.UU2
SB9	05/27/05	5-5.5	< 0.001	<0.005	< 0.005	<0.005	<5.02	<9.80	< 0.002
SB9	05/27/05	18-18.5	< 0.001	< 0.005	<0.005	< 0.005	<5	<10	< 0.002
SB9	05/27/05	19.5-20	< 0.001	< 0.005	<0.005	< 0.005	<4.96	<10	<0.002
SB9	05/27/05	24.5-25	1.58	1.10	0.400	1.72	279	<9.88	<0.002
OD/	VUI # II VU	出す・シー 行う	1.470	1110	V-700	2012	-17	>.00	

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS FORMER EXXON RETAIL SITE 7-4121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

					Con	centration (mg	g/kg)		
Sample		Depth			Ethyl-	Total			
ID	Date	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	MTBE
SB10	05/27/05	5-5.5	< 0.001	< 0.005	< 0.005	< 0.005	<5.01	<9.92	< 0.002
SB10	05/27/05	17.5-18	< 0.001	< 0.005	< 0.005	< 0.005	<5.03	<10	< 0.002
SB10	05/27/05	24.5-25	<0.001	<0.005	< 0.005	<0.005	<5.01	<10	<0.002
•									
SB11	05/27/05	5-5.5	< 0.001	<0.005	<0.005	< 0.005	<4.99	<10.2	< 0.002
SB11	05/27/05	18.5-19	< 0.001	< 0.005	< 0.005	< 0.005	<4.95	<10	< 0.002
SB11	05/27/05	24.5-25	0.0082	< 0.005	<0.005	0.0053	<4.98	<10	<0.002
SB12	05/27/05	5-5.5	<0.001	<0.005	<0.005	<0.005	<4.97	<10	<0.002
SB12	05/27/05	16.5-17	< 0.001	< 0.0051	< 0.0051	< 0.0051	<5.05	<9.88	< 0.002
SB12	05/27/05	25.5-26	<0.001	<0.005	<0.005	<0.005	<4.98	<9.96	<0.002
SB13	05/27/05	5-5.5	<0.001	<0.005	<0.005	<0.005	<5.02	<9.92	<0.002
SB13	05/27/05	18.5-19	< 0.001	< 0.0051	< 0.0051	< 0.0051	<5.05	<9.92	<0.002
SB13	05/27/05	24.5-25	0.0011	<0.005	<0.005	<0.005	<4.95	<9.92	< 0.002

a Methyl tertiary butyl ether by 8021B.

mg/kg Milligrams per kilogram.

b Estimated value below report limit.

TPH-g Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B.

TPH-d Total Petroleum Hydrocarbons as diesel by EPA Method 8015B.

MTBE Methyl tertiary butyl ether by EPA Method 8260B unless otherwise indicated.

TABLE 2 GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR TEMPORARY BORINGS FORMER EXXON RETAIL SITE 7-4121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

		Depth to			Concentrat	tion (µg/L)			
Boring ID	Date	Water (feet bgs)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	ТРН-g	TPH-d	MTBE
SB-1 W	03/19/04	13.3-16	250	22	310	71	3,200	4,200	<17ª
SB- 2 W	03/19/04	14-22	17	24	68	21	7,000	26,000	<17ª
SB5	05/26/05	20 ^b	<0.5	<0.5	<0.5	<0.5	<50	341	<0.5
SB6	05/26/05	22 ^b	<0.5	<0.5	<0.5	<0.5	<50	<56	<0.5
SB7	05/26/05	19 ^b	<0.5	<0.5	<0.5	<0.5	<50	57	<0.5
SB8	05/26/05	18 ^b	75.7	0.5	4.7	4.7	824	801	<0.5
SB9	05/27/05	20 ^b	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5
SB10	05/27/05	20 ^b	<0.5	<0.5	<0.5	0.7	54.5	<50	<0.5
SB11	05/27/05	20 ^b -	<0.5	<0.5	1.9	0.5	2,250	701	<0.5
SB12	05/27/05	20 ^b	<0.5	0.5	1.0	<0.5	1,060	305	4.30
SB13	05/27/05	20 ^b	<0.5	<0.5	0.6	<0.5	447	121	14.2

a Methyl tertiary butyl ether by EPA Method 8021B.

b Depth of grab groundwater sample.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tertiary butyl ether by EPA Method 8260B unless otherwise indicated.

µg/L Micrograms per liter.

Appendix A

Regulatory Correspondence

AL MEDA COUNTY HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

May 19, 2005

Jennifer C. Sadlachek Exxonmobil 4096 Piedmont Ave., # 194 Oakland, CA 94611

Ken Phares MacArthur Blvd Associates 10700 MacArthur Blvd. Oakland, Ca 94605

Re: Fuel Leak Investigation, Site No. RO0002635, EXXON #7-4121, 10605 Foothill Blvd., Oakland, CA 94605

Dear Ms. Sadlachek and Mr. Phares:

Alameda County Environmental Health, Local Oversight Program (LOP), has received and reviewed the April 19, 2005 document and its addendum dated May 19th, 2005 regarding the above referenced site as prepared by Ms. Sherris Prall of ETIC Engineering, (ETIC). Additionally I have discussed the above referenced case with several individuals including Ms. Prall of ETIC.

This office requests that you address the following technical comments, perform the proposed work, and send us the technical reports requested below:

TECHNICAL COMMENTS

This work plan addresses the required investigations in my correspondence dated March 22nd, 2005 including further definition of both the horizontal and vertical extent of groundwater contamination. However, we had also requested copies of any other reports pertaining to any USTs systems that are/were present at this site and/or environmental contamination related reports.

This office concurs with the submitted workplan as amended specified above.

TECHNICAL REPORT REQUEST

Please submit the following technical reports to Alameda County Department of Environmental Health (Attention: Amir K. Gholami):

July 19, 2004

Result of the Work Plan

July 19, 2004

Copies of any other reports pertaining to any USTs systems

If you have any questions, please do not hesitate to call me at (510) 567-6876

Sincerely,

Amir K. Gholami

Hazardous Materials Specialist

C. Ms. Sherris Prall, ETIC Engineering, 2285 Morello Ave., Pleasant Hill, CA 94523 A.gholami, D.Drogos

From:

Sherris Prall

To:

Amir Gholami

Date:

5/19/05 2:30PM

Subject:

Verbal Approval of Work Plan for Additional Site Assessment, 10605 Foothill Blvd,

RO2635

Mr. Gholami,

As we discussed on the telephone today, ETIC may proceed as proposed in the April 18, 2005 Work Plan for Additional Site Assessment, Former Exxon Retail Site 7-4121, 10605 Foothill Blvd, Oakland, CA. In our discussion, you verbally approved the Work Plan and the 5/19/05 e-mail modification to the Work Plan. This e-mail serves as confirmation of that verbal approval.

ETIC will proceed with the scope of work as modified in the 5/19/05 e-mail unless we hear otherwise from you. Thank you for your prompt attention to this project.

Sincerely, Sherris Prall Project Manager

Sherris Prall ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523 Tel: 925-602-4710, Ext. 20 FAX: 925-602-4720 sprall@eticeng.com

CC:

Bryan Campbell; Christa Marting; Hamidou Barry; Jennifer Sedlachek; Mark

Peterson

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DAVID J. KEARS, Agency Director

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

March 22, 2005

Jennifer C. Sadlachek Exxonmobil 4096 Piedmont Ave., # 194 Oakland, CA 94611

Ken Phares MacArthur Blvd Associates 10700 MacArthur Blvd. Oakland, Ca 94605

Re: Fuel Leak Investigation, Site No. RO0002635, EXXON #7-4121, 10605 Foothill Blvd., Oakland, CA 94605

Dear Ms. Sadlachek and Mr. Phares:

Alameda County Environmental Health (ACEH) staff reviewed a report dated April 7, 2004 indicating a release from your former gasoline underground storage tank (UST) system removed from your property prior to December 1998. This office subsequently listed the subject site on our database of fuel leak sites. Our office acts as the lead agency to oversee the investigation and cleanup of petroleum hydrocarbon releases.

TECHNICAL COMMENTS

We have recently reviewed the information in our file and determined that up to 1,000 ppm TPHG, 590 ppm TPHD, and 0.55 ppm Benzene were detected in soil. Up to 7,000 ppb TPHG, 26,000 ppb TPHD, 250 ppb Benzene, and up to 17 ppb MTBE were detected in groundwater. Per our meeting this afternoon a soil and groundwater investigation is necessary at this site to progress toward case closure.

Please define the extent of soil and groundwater at your site. This type of investigation usually involves drilling soil borings and collecting soil and groundwater samples for chemical analyses. Groundwater monitoring wells may be needed and groundwater sampled to properly characterize groundwater contamination. Other options for additional investigation may be appropriate to define contamination at your site.

Please submit a work plan detailing your proposal to define the extent of soil and groundwater contamination by April 22, 2005.

The case file for the subject site contains one report "phase II site investigation", dated April 7, 2004, prepared by AEI Consultants. We request that you submit copies of any other reports pertaining to any USTs systems that are/were present at this site and/or environmental contamination related reports by **April 22, 2005**.

TECHNICAL REPORT REQUEST

Please submit the following technical reports to Alameda County Department of Environmental Health (Attention: Amir K. Gholami):

April 22, 2005 Work Plan

April 22, 2005 Copies of any other reports pertaining to any USTs systems that are/were present at this site and/or environmental contamination related reports

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

PERJURY STATEMENT

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

LANDOWNER NOTIFICATION REQUIREMENTS

Pursuant to California Health & Safety Code Section 25297.15, the active or primary responsible party for a fuel leak case must inform all current property owners of the site of cleanup actions or requests for closure. Furthermore, ACEH may not consider any cleanup proposals or requests for case closure without assurance that this notification requirement has been met. Additionally, the active or primary responsible party is required to forward to ACEH a complete mailing list of all record fee title holders to the site.

At this time we require that you submit a complete mailing list of all record fee title owners of the site by **April 22, 2005**, which states, at a minimum, the following:

- A. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:
- OR -
- B. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.

(Note: Complete ite A if there are multiple site landow s. If you are the sole site landowner, skip item A and complete item B.)

PROFESSIONAL CERTIFICATION

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

AGENCY OVERSIGHT

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

If you have any questions, please do not hesitate to call me at 510-567-6876.

Sincerely,

Amir K. Gholami, REHS Hazardous Materials Specialist

C: Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597 Tremont Road, Dixon, CA 95620 D. Drogos, A. Gholami

Appendix B

Permits



COUNTY OF ALAMEDA
PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street, Hayward, CA 94544-1395
James Yoo PH: (510) 670-6633 FAX: (510) 782-1939
FOR GENERAL DRILLING PERMIT INFO:
WWW.acgov.org/pwa/wells

FAX TRANSMITTAL

TO: 67/1C Gg

: Mark Petason Tracy Lob

PECEIVED

DATE: 5-12-05

MAY 12 2005

FAX NO.: (925) GO 2-4721

TRANSMITTING THE FOLLOWING:

TIC ENCHEENIG

SHEETS DATED TITLE/DESCRIPTION

- DPA- W05-0537 & Conditures

TOTAL PAGES INCLUDING THIS SHEET.

FROM WATER RESOURCES SECTION

NAME: J.

JAMES YOO

TEL: (510) 670-6633

FAX: (510) 782-1939

E-MAIL: jamesv@acpwa.org

IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL ME.

REMARKS: FYI: EFFECTIVE NOVEMBER 1, 2004

SCHEDULING WORK/INSPECTIONS

Alarmeda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact George Bolton at 510-670-5594 to schedule the inspection date and time (You must have drilling permit
approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s)
at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA inspector will coordinate the inspection requirements as well as how the inspector can be reached if they are not at the site when inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of \$130am to 2130pm. Monday to Friday, excluding holidays.



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James You

FAX (510) 782-1939 www.acfewed.org APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 REET REQUIRES A SEPARATE PERMIT APPLICATION

	DRILLING PERN	AIT APPLICATION
LOCATION OF PROJECT	PPLICANT TO COMPLETE	PERMIT NUMBER WELL NUMBER
ノりんのて どっってかい	L POULEVARD	APN
OAKLAND, CALL	FORALIA	PERMIT CONDITIONS
=======================================		Circled Permit Requirements Apply
	016 CORPORATION	GENERAL A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date. Submit to ACPWA within 60 days after completion of
APPLICANT	non-ina Int.	cormitted original Department of Water Resources-
Address 2385 Hove II.	180719 10C. 60x (925)602-4720 0 Avenue Phone (925)602-4710 11 Zip 94523	Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date
		B. WATER SUPPLY WELLS 1. Minimum surface scal thickness is two inches of
TYPE OF PROJECT		coment grout placed by tremie.
Well Construction	Geotechnical Investigation	 Minimum scal depth is 50 feet for municipal and Industrial wells or 20 feet for domestic and irrigation
Cathodic Protection	General	wells unless a lesser depth is apexially approved.
Water Supply	Contamination Well Destruction	C. GROUNDWATER MONITORING WELLS
Monitoring	WEII DESILICION	INCLUDING PIEZOMETERS
PROPOSED WATER SUP	PLY WELL USE	1. Minimum surface seat thickness is two inches of
New Domestic	Replacement Domestic	coment grout placed by tremie.
Municipal	Irrigation	2. Minimum scal depth for monitoring wells is the
industrial	Other	maximum depth practicable or 20 feet. D. GEOTECHNICAL/CONTAMINATION
		Backfill bore hole by tremie with coment grout or coment
DRILLING METHOD:		grout/sand mixture. Upper two-three feet replaced in kind
Mud Rotary	Air Robry Auger Obst GEOPROBE/DIRECT Posh	(or (with the magnetic property)
Cuble		The state of the s
DATE LEDIS NAME 1/10	ONEX Environmental Field Ser	パピラ Fill hole anode zone with concrete placed by tremie.
DIGITIES S MANIE TO 15	THE CANCELLAND	F. WELL DESTRUCTION
DRILLER'S LICENSE NO.	<u> C57 - 705927</u>	Send a map of work site. A separate permit is required
		for wells deeper than 45 feet.
		C depositions — 8 # 7
WELL PROJECTS	Nantaum	NOTE: One application must be submitted for each well or well
Drill Hole Diameter		destruction. Multiple borings on one application are acceptable
Casing Diameter Surface Seal Depth	fr. Owner's Well Number	for geotechnical and contamination investigations.
Surrace Sear Deput		CK 15898
GEOTECHNICAL/CONT Number of Borings 9 Hole Diumeter 3	AMINATION PROJECTS Maximum in. Depth <u>20</u> ft.	CICTODIO
STARTING DATE	5/25/05	
COMPLETION DATE _Q	5/27/05	APPROVED DATE 570
	to attended to the company of the co	/ \ / \ / \ / \ / \ / \ / \ / \ / \ / \
	h all requirements of this permit and Alameda County Ordi	leter / //
APPLICANT'S SIGNATUR	E TILL DATE S	1-703
PLEASE PRINT NAME	Mark C. Peterson Rev.	5-11-04



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0537

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

- 1. Prior to any drilling activities, 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 Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
- 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. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues 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.
- 4. Permit is valid only for the purpose specified herein May 25 to May 27, 2005changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
- 5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 6. 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.
- 7. Applicant shall contact George Bolton for a inspection time at 510-670-5594 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.

Appendix C

Boring Logs

	MAJOR DIVIS	IONS	TYPICAL NAMES
		Clean gravels with	GW Well graded gravels with or without sand, little or no fines.
_ω	GRAVELS more than half	little or no fines	GP Poorly graded gravels with or without sand, little or no fines.
OARSE-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 alf is c 200 sid		over 12% fines	GC Clayey gravels, clayey gravels with sand.
COARSE-GRAINED More than half is cc than No. 200 sie		Clean sands with	SW Well graded sands with or without gravel, little or no fines.
OARS More t	SANDS more than half coarse fraction is	little or no fines	SP Poorly graded sands with or without gravels, little or no fines.
5	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.
SOILS s finer sieve	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 si			OL Organic silts or clays of low plasticity.
FINE-GRAINED SOILS More than half is finer than No. 200 sieve			MH Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
FINE More tha	SILTS AN liquid limit grea		CH Inorganic clays of high plasticity, fat clays
			OH Organic clays or clays of medium to high plasticity.
	HIGHLY ORGANIC	SOILS	PT v vv vv Peat and other highly organic soils.
	SYMBOL	S	DRILL LOG ROCK TYPES
<u>₹</u>	First Encountered Groun Gauged Groundwater Le	Campica	Limestone
Portland Cement Air			Dolomite
	Blank Casing Bentonite Pellets	Soil	Mudstone
	Filter Pack	Water	Siltstone
	Screened Casing	Open Hole	Sandstone
			$\mathbf{F} \cdot \mathbf{V} \cdot \mathbf{V} \cdot \mathbf{V}$



					•			CLIENT			SITE	NUMBER	L	OCATION	
E	T	C						Exxon Mobi	l Oil C	Corp.		7-4121		10605 Foo Oakland, C	
	eering							DRILLING ANI SAMPLING M) =тног	Bor S Dire	ehole cle ect Push	ared to 5 feet b Technology (M	ogs using a har acro-Core San	nd auger. 5400 G npling). Sampled	eaprobe Rig. with 4' liners.
LOG	OF SO	IL BOI	RING:		S	B	35	SAM ENTO W		,	·		T		
COO	RDINA	TES:						WATER LE	VEL	⊈ 14	4.7			START	FINISH
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}	NSE N							REFEREN	ICE	(S			5/26/05	5/26/05
INC	HES				PLE	ш		SURFACE CONDITION	SNC		_				
EN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	Ę,	AMPLE R SAM	SAMPLE	GRAPHIC				Т	op soil/Gras	s 		
DRIVEN	REC	BLO	OVA REA	DEPTH (feet)	AIR SAM	SOIL	GR S	DESCRIPTION BY:				H. Barry			
				0-				SILTY CLAY, da	rk brow	/n (7.5°	YR 3/2),	, soft, mediu	m plasticity,	damp.	
				1—	-	-									
				2											
	<u> </u>					-									
				3-		-	V								
	1			4-	-										
				5							. 4	d:ad			
36	36					Χ		Increase in firm	iess, sc	me iin	e to me	qıum sand.			
				6-											
		-		7—	-										
				8-				CLAY, brown (7.		3), har	d, medi	um plasticity	, some fine t	o very fine sar	nd,
48	48	·		"				organic traces, o	iailip.						
		-		9											
		-		10-											
						X									
			 0.4	11—											
-				12-	-										•
48	48	-		13-											
14/05															
				14	1			SANDY CLAY, y	ellowis	h brow	n (10YF	R 5/6), firm, n	nedium plas	ticity, fine sand	d,
50				<u>∇</u> 15		V		Garrip.							
<u> </u>				16-		Ĥ									
890 48	48	1		'`											
4427				17				SILTY SAND, ye medium plastic f	llowish	brown	(10YR	5/6), fine to	very fine sar	nd, low plastic	to
N N N N N N N N N N N N N N N N N N N		-	-0. 6 -	18-		X	SM	meurum piasuc i	⊌3 ₁ 11	ioiot IU	17GL.				
IL BOF				10-											
SOF SOIL BORING 7-4121 LOGS GPJ ETIC GDT 6/14/05				19-			CIÁ	SAND, dark yelle	owish h	rown f	10YR 4/	/6), well arad	led fine to co	arse sand.	
ğ				20-	↓ F		· ·sw·	DAIRD, Gair Yell	2471Q[] L			-,,o., g.aa			

CLIENT SITE NUMBER LOCATION 10605 Foothill Blvd 7-4121 Exxon Mobil Oil Corp. Oakland, California Engineering, Inc. INCHES LOG OF SOIL BORING: BLOWS / 6" SAMPLER OVA READING GRAPHIC LOG RECOVER SB5 DRIVEN DEPTH (feet) moderate cementation, medium plastic fines, wet. 48 48 SANDY CLAY, brown (10YR 4/3), hard, medium plasticity, fine to very fine sand, minor coarse sand, damp. 21--22-Organic traces. -0.9 23-24 12 12 Color change to dark yellowish brown; Increase in hardness to very hard. 0.6 25-Boring terminated at 25 feet bgs. 26-27-28 29 30-31-32-33-34-35-36 37-38-6/14/05 39 LOG OF SOIL BORING 7-4121 LOGS.GPJ ETIC.GDT 40-42-43-

								CLIENT		SITE	NUMBER	LC	OCATION	
E	T	C	1			_		Exxon Mobil Oil (orp.		7-4121		10605 Foo Oakland, C	
	neering		,					DRILLING AND SAMPLING METHOD		ehole cle ect Push	ared to 5 feet by Technology (Ma	gs using a han acro-Core Sam	d auger. 5400 G pling). Sampled	eoprobe Rig. with 4' liners.
LOG	OF SC	IL BOI	RING:		S	SE	36	SAMPLING METHOL					7	
COO	RDINA	TES:						WATER LEVEL	⊈ 1;	3.6			START	FINISH
	ATION				∋:			TIME	12	200			TIME	TIME
	NG BE							DATE	05/2	26/05			1105 DATE	1240 DATE
	LING (NSE N					7		REFERENCE	G	SS			5/26/05	5/26/05
	HES		14. 05	1-703				SURFACE CONDITIONS				L <u></u>		
L N N	RECOVER	BLOWS / 6" SAMPLER	OVA READING	Ε_	MPLE	AMPLE	GRAPHIC LOG			T	op soil/Grass	5		
DRIVEN	REC	BLO	REA	DEPTH (feet)	AR SA	SOILS	₩ 1068	DESCRIPTION BY:		1	H. Barry			
				0-	\prod	Ìŀ	//////	SILTY CLAY, very dark	gray (*	10YR 3/	1), firm, med	ium plasticit	y, some fine to	0
<u> </u>				1				medium sand, damp.						
							-							
				2-										
				3										
						$\ \cdot\ $								
				4-										
				5										
36	36	-	0.6			A								
		1		6-										
		-		7—				Color change to olive bu	own (2	2.5Y 4/4), hard.			
48	48			8-										
		-		9_	$\left\{ \right\}$									
		-		40										
			2,1	10-	1	X								
				11—	$\left\{ \right\}$			SANDY CLAY, yellowis	n brow	n (10YF	R 5/4), hard, r	nedium plas	ticity, fine to	
				12_				medium sand, some co	arse sa	and, dar	np.	•		
48	48			12-										
		-		13	$\ \cdot \ $			Color change to dark ye	llowish	brown	(10YR 4/4), c	decrease in I	medium sand.	
IG OF SOIL BORING 7-4121 LOGS, GPJ ETFC, GDT 6/18/05		_		<u> </u>	∐ 			_						
FOR C			. —	14										
<u> </u>				15—	┨┋	X								
			1.4	16—		$\stackrel{\leftarrow}{}$								
48	48			'0"										
1211		-		17—										
ş 		-		18	▋▐			SILTY CLAY, light olive	brown	(2.5Y 5	5/4), soft to fir	m, medium	plasticity, som	e fine
<u> </u>								sand, damp.		,	•		• -	
<u></u>				19—	E									
호 				20—		X								

	ر مربه	10			~~~			CLIENT	SITE NUMBER	LOCATION
Engir	neering	g, Inc.						Exxon Mobil Oil Corp.	7-4121	10605 Foothill Blvd Oakland, California
INC	HES	٠, ٥٠	45		PLE	W		LOG OF SOIL BORING:		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	SAMPLE ER SAM	SONL SAMPLE RECOVERED GRAPHIC	(D		SB6	
DRI	RE	BLC	OV/	(fee	AIR SA WATER		Š	OUT CAND	(12)	ad law plantia finan wat
24	24		2.0					SILTY SAND, olive gray (5Y 5	ors), poorly graded line sar	io, low plastic lines, wet.
		-		21—						
		-	-0.8	22-		X				
36	36	-		23-		SI 	M. :	SILTY SAND, offive gray (5Y 5	E/O). Soo to modium cond	minor coareo cand low
		-] 				plastic fines, wet.	o/z), tine to medium sand,	minor coarse sand, low
				24—		√				
			—1.0—	25-		X SEE	1	Boring terminated at 25 feet b	ogs.	
<u> </u>				26-	$\left \cdot \right $	П				
				27—		Н				
				21-		H				
				28-	1	Н				
-				29-	-	Н				
				30-		Ц				
						Н				
				31—	1	Ц				
		<u> </u>		32-	$\left\{ \right $	Н				
				33-	-					
						H				
				34—						
				35-		Н				
				36-						
				37—						
				31-						
3				38-						
<u> </u>				-39-	$\left\{ \left[\right] \right\}$	H				
2				40						
LOS OF SOIL BOTRING 74121 LOGS.GF2 ETIC.GG1 8/18/08						ΙH				
				41—			}			
17				42		H	}			
				43-						
						H				
3				44-						
<u>ś</u>	+	-		45	-					

	ا کنیما							CLIENT		SITE	NUMBER	LC	CATION	
	T							Exxon Mobil Oil C			7-4121		10605 Foo Oakland, C	alifornia
Engir	neering	g, Inc.						DRILLING AND SAMPLING METHOD	Bor S Dire	ehole clea ect Push	ared to 5 feet by Technology (Ma	gs using a han acro-Core Sam	d auger. 5400 G pling). Sampled	eoprobe Rig. with 4' liners.
LOG	OF SC	IL BOF	RING:		S	В	7				···	-		
	RDINA								<u>⊽</u> 1:		· · · · · · · · · · · · · · · · · · ·		START	FINISH
1		I TOP) :			TIME	13	358			TIME	TIME 1437
<u></u>		LOW					• • • •	DATE	05/2	26/05			1244 DATE	DATE
1		OMPA UMBEI						REFERENCE	C	S			5/26/05	5/26/05
-	HES			, 00	بر ا	Τ		SURFACE CONDITIONS			<u></u>	ļ		
<u> </u>	RECOVER	BLOWS / 6" SAMPLER	OVA READING	E	MPLE SAMP	AMPLE /FRED	GRAPHIC LOG			Т	op soil/Grass	5		
DRIVEN	REC	BLOV	OVA REA[DEPTH (feet)	AIR SAM	SOIL S	GRA COGRA	DESCRIPTION BY:		ŀ	H. Barry			
				0-		+	//////	SILTY CLAY, very dark	gray (*	10YR 3/	1), firm, med	ium plasticit	y, fine to coars	se
				1—				sand, damp.			•			
				'										
				2—		H								
				3—										
						H								
-		<u> </u>		4										
				5—				Color change to olive bro	own (2	2.5Y 4/3), hard.			
36	36	_	2.2			Δ								
		-		6-				SILTY CLAY, light olive damp.	brown	(2.5Y 5	5/4), hard, me	edium plastic	ity, fine sand,	
		-		7				Jamp.						
	·			8-									÷	
48						L				-				
		-		9—										
	36	-		10-				CLAYEY SAND, light oli	vo bro	wer (2 K	v 5/3) fine to	coarea san	d medium nla	etic
								fines, rare angular grave	to 1"	diamet	er, damp.	CORISC Sain	u, medium pie	1500
				11—										
			—1.8—	12-		Χ								
36	36	-		42										
50%		-		13— ⊈				Change to very fine to fi	ne sar	nd.				
- P/2K		-		14—										
<u> </u>			—1.2—	15-		X								
48	48		•••	"										
<u> </u>		-		16—	IE			SILTY SANDY CLAY, ye		h browr	n (10YR 5/4),	very hard, n	nedium plastic	city,
2		-		17				very fine to fine sand, da	anp.					
4														
ORIN ORIN			1.7	18—		X		OLAVEY OAND III I		(40	/D.E/4\	and sees	madium and	
SOILE				19—	I			CLAYEY SAND, yellowis medium plastic fines, me			rrs 3/4), tine s	sano, some i	meulum sand _i	
G OF SOIL BORING 7-4121 LOGS.GPJ ETIC.GDT 6/28/05	48	-		20-										

							· · · · · · · · · · · · · · · · · · ·	CLIENT	SITE NUMBER	LOCATION
E	T	C						Exxon Mobil Oil Corp.		10605 Foothill Blvd Oakland, California
	neering	g, inc.					1	LOO OF COLL BORING	<u> </u>	
1	HES I #	 	U		APCE	ا واك	U	LOG OF SOIL BORING:		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	F	AMPL SR SA		GRAPHIC LOG		SB7	
	R S	SAN	REA FA	DEPTH (feet)	AIR SAM WATER		80		•	
		-			Ħ			Wet.	· · · · · · · · · · · · · · · · · · ·	
		-		٠,			//sc//			
				21—			////	SILTY SAND, olive gray (5Y 4	1/2), very fine to fine sand, k	ow plastic fines, wet.
				22-	↓Ħ					·
					ΙĦ					
-				23-	18	Δ	SM			
24	24				l 🗏		ĬÏ			
	1	- <u>-</u>		24-	18			SILTY SAND, dark yellowish l sand, non-plastic fines, wet.	brown (10YR 4/6), fine to me	edium sand, some coarse
						\forall		sand, non-plastic fines, wet.	•	
			 2.1	25	i M			Boring terminated at 25 feet b	ogs.	
				26-						
] 20-						
			,	27-						
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	-			38-	$\left\{ \left\ \cdot \right\ \right\ $	-	1			
28/05						-	1			
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G.G				40]			
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립	<u> </u>			41]		1			
88		<u> </u>					-			
<u></u>	-			42-	4	-	-			
4							1			
\$ 		 	 	43-	$\left\{ \left\ \cdot \right\ \right\ $		-			
8							1			
\$				44	1		1			
LOG OF SOIL BORING 7-4121 LOGS.GPJ ETIC.GDT 6/28/05				45-] .			
Š				45				<u> </u>		

								CLIENT		SITE	NUMBER	LC	CATION	
E	T	C	ı					Exxon Mobil Oil (orp.		7-4121		10605 Foo Oakland, C	
	eering							DRILLING AND SAMPLING METHOD	Bor S Dir	rehole de: ect Push	ared to 5 feet b Technology (Ma	gs using a hand acro-Core Sam	d auger. 5400 G pling). Sampled	eoprobe Rig. with 4' liners.
LOG	OF SC	IL BOI	RING:		S	В	8	SAMPLING METHOL						
COOI	RDINA	TES:						WATER LEVEL	⊈ 1:				START	FINISH
	'ATION) :			TIME	1:	516			TIME	TIME
	NG BE							DATE	05/2	26/05			1440 DATE	1600 DATE
	LING C NSE N							REFERENCE	(3S			5/26/05	5/26/05
	HES			7000	 			SURFACE CONDITIONS					l	1
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	SAMPLE TER SAMPL	SAMPLE	GRAPHIC LOG	DECODED TO LEV		T	op soil/Grass	· · · · · · · · · · · · · · · · · · ·	<u></u>	
8	S.	BLO	8분	E E	AIR S/		₽,	DESCRIPTION BY:		ŀ	l. Barry			
-				0-				SiLTY CLAY, very dark coarse sand, damp.	gray (10YR 3/	1), hard, med	dium plasticit	ty, fine sand,	some
-				1				coarse dand, damp.						
					-	-								
				2-										
				3										
				4_										
·				"										
-				5		X								
36	36	-	2.1	6-										
		•												
		-		7—				CLAY, light olive brown	(2.5Y	5/3), hai	rd, medium p	lasticity, son	ne fine sand,	damp.
				8-										
36	36					1								
		-		9—										
		-		10-				Color change to olive (5	Y 5/6)	, very ha	ard.			
				'-		$\overline{\vee}$								
	22		_1.8_	11—		\triangle								
36	36	-		12-										
		-												
3				13										
				14-										
48	48													
		-		<u>⊽</u> 15—				SILTY CLAY, light olive damp.	brown	(2.5Y 5	i/4), hard, me	edium plastic	ity, some fine	sand,
		-		16				34						
3						X								
7			-3.4-	17				Color change to olive (5	Y 5/3)	, firm.				
			-3.2-	18—		X		Moist.						
48	48			19				CLAYEY SAND, olive g	rav (5)	Y 5/2). fi	ne sand. son	ne medium s	and, low to m	edium
5				'*	目		//ś¢//	plastic fines, wet.						
3		-		20-	ΙĦ		11/1/	1						

							1	T	LICONTION
							CLIENT	SITE NUMBER	LOCATION
	TI						Exxon Mobil Oil Corp.	7-4121	10605 Foothill Blvd
							Exxon Mobil Oil Colp.	7-7121	Oakland, California
Engir	eering	g, Inc.					<u> </u>	<u> </u>	
INC	HES				빌		LOG OF SOIL BORING:		
2	RECOVER	BLOWS / 6" SAMPLER	OVA READING	I	SAMF	GRAPHIC LOG		SB8	
DRIVEN		Ş₫	₹ A	DEPTH (feet)	AIR SAMPL WATER SAI	ay y S			
<u> </u>	22	표장	QE.	<u>2</u> €	AR W	過 22	<u>-</u>		
					Ħ	/sc/			
		_		21				e	
					▎♯		SILTY SAND, olive (5Y 4/3),	rine sand, non-plastic fine:	s, some medium sand, wet.
ļ				22-	▮₽				
12	12				🛱	SM			
		-		23—	目		Fine to medium sand.		
24	24			-	🛱		CAND dock grov (6V 4/1) we	all aroded very fine to med	fium sand, some coarse
-		-		24—			SAND, dark gray (5Y 4/1), we sand, loose, non-plastic fines	, wet.	num puna, apino combo
		-			二井	.sw	· · · · · ·		
-		-	152	25—	}		Boring terminated at 25 feet t	ogs.	
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				26-		Н			
				1		Н			
				27—		Н			
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				29—	111	П			
				30—					
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				32—	111	Н			
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				37—	$ \cdot $				
				38—					
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5				41	$\left\{ \left. \right \right. \right $				
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3				44-	1	П			
GOF SOIL BORING 74121 LOGS, GFU E. IC. GDU 6/28/05				45] [

								CLIENT SITE NUMBER LOCATION
E	TI	C						Exxon Mobil Oil Corp. 7-4121 10605 Foothill Blvd Oakland, California
	eering							DRILLING AND Borehole cleared to 5 feet bgs using a hand auger. 5400 Geoprobe Rig.
LOG	OF SO	IL BO	RING:		S	B	9	SAMPLING METHODS Direct Push Technology (Macro-Core Sampling). Sampled with 4' liners.
cool	RDINA	TES:						WATER LEVEL
ELEV	ATION	I TOP	OF CA	ASING	:			TIME 0826 TIME TIME
	NG BE							DATE 05/27/05 0746 0900 DATE DATE
1	NSE N					,		REFERENCE GS 5/27/05 5/27/05
-	HES		14. 03/	1-703	1	П	-	SURFACE CONDITIONS
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AMPLE R SAMPLE	SAMPLE	GRAPHIC	Top soil/Grass
<u>K</u>	REC	BLC	\$₩	(fear	AIR SAN	SOIL S	58	DESCRIPTION BY: H. Barry
				0				SILTY CLAY, yellowish brown (10YR 5/4), firm, medium plasticity, some fine to medium sand, damp.
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				3-				
				4-		┟┝		
				5				
36	36	_	1.8			Χ		
		-		6				
		-	<u></u>	7—				
		-						O has to see to dealer offer in house (40VD 4(4) hand, name according and
48	48		<u></u>	8	1			Color change to dark yellowish brown (10YR 4/4), hard, some coarse sand.
	70	-		9—	$\ \ $			
		-						SILTY SANDY CLAY, brown (7.5YR 5/4), light clive brown (2.5Y 5/3), firm,
				10-				crumbly, low plasticity, fine sand, some medium sand, damp.
				11	┨┋	∇		
			1.2					
48	48			12-				
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STANCE				14—	ĮĒ			
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3			- 1.8	16-		X		SANDY CLAY, light olive brown (2.5Y 5/3), hard, medium plasticity, fine to very fine sand, damp.
g 5 48								mo como, comp.
214	17-							CLAYEY SAND, olive gray (5Y 4/2), well graded fine sand, medium to low plastic
2	- 18-							fines, moist.
109:711 C49:250 E17:100:250 48								
			<u> </u>	19—				Some coarse sand.
5				20-	ΙĒ	X	·sw·	SAND, olive (5Y 4/3), well graded fine to coarse sand, loose, low plastic fines, wet.

									T - :=-	T
	4		l					CLIENT	SITE NUMBER	LOCATION
Engir	neering	d. Inc.						Exxon Mobil Oil Corp.	7-4121	10605 Foothill Blvd Oakland, California
	HES		1	1		T	<u> </u>	LOG OF SOIL BORING:		
		BLOWS / 6" SAMPLER	o o		E MPLE	۾ پ	U	LOG OF SOIL BORING.		
DRIVEN	RECOVER	WS	OVA READING	ΕŢ	AMPL R SA	VERE	GRAPHIC LOG		SB9	
🙀	E C	3LO SAM	¥₩	DEPTH (feet)	AIR SAI Water		88			
-	<u> </u>	ш ()	1.2			05/42	* * * * * * * * * * * * * * * * * * * *			
48			'		ΙB					
	42-	-		21—	┨		·sw			
}	-	-		22	∤ 目					
	İ	,			目目			SILTY SAND, olive (5Y 4/3), p	poorly graded fine sand, som	e medium to coarse
-				23-	∤ 📑	abla	SM	sand, low plastic fines, wet.		
1	İ		1.5		ΙĐ	Λ				
-				24	∤ 🖪			Coarse sand content increase	S.	
12	12				一貫	$\overline{}$	sw	GRAVELLY SAND, olive gray 1.25" diarneter, non-plastic fin	(\$1 4/2), fine to coarse sand es. loose, wet.	ı, rounded gravei to
-		-	-18.1 -	25—		Ą		Boring terminated at 25 feet b		
					$\ \ \ $	-			g-·	
				26-		-				
						\vdash				
				27	$\{ \ \ $	\vdash	<u> </u>			
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					$ \ \ $	L				
				38—		L				
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SOLE BORNING 7-4 IX LOCGS GF7 ETIC. GOT GREEN		· · · · · · · · · · · · · · · · · · ·		39		_				
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<u></u>				41—		<u> </u>				
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<u>-</u>				42—		\vdash				
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5				45						

	رسية						CLIENT		SITE NUMBER	?	LOCATION	· · · · · · · · · · · · · · · · · · ·
	TI						Exxon Mobil Oil O		7-41		10605 Foo Oakland, C	alifornia
	eering					•	DRILLING AND SAMPLING METHOD		shole cleared to 5 f ct Push Technolog	eet bgs using a hay y (Macro-Core Sa	and auger. 5400 G ampling). Sampled	eoprobe Rig. with 4' liners.
LOG	OF SO	IL BOI	RING:		SE	310	GAMIL FING ME LUCE	T	——————————————————————————————————————			
COOL	RDINA	TES:						⊈ 11			START	FINISH
1	ATION				; :		TIME	10	00		TIME	TIME
	NG BE						DATE	05/2	7/05		0914 DATE	1055 DATE
	LING C NSE N						REFERENCE	G	S		5/27/05	5/27/05
	HES			[ű		SURFACE CONDITIONS		<u>k</u> ,			····
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	Ē∵	AMPLE R SAMP	RECOVERED GRAPHIC LOG			Top soil/G	Grass		
Į.	REC	BLO	Şã Nă	DEPTH (feet)	WATER SOIL SA	F 5 5 5	DESCRIPTION BY:		Н. Ваггу			
				0-			SANDY CLAY, dark gra	yish bro	own (10YR 4/2)	, firm, medium	plasticity, fine to	o
				1			medium sand, some co- damp.	arse sa	ina, some subra	unded graver o	o 1.5 diameter,	
						H////						
				2								
				3—		H						
				4-			Color change to brown (7 5YR	4/3\ firm			
				_			Coldi Glange to brown	(1.0110	43 0) , mm.			
36	36		2.8	5								
		-		6-								
		-		7—			SILTY CLAY, yellowish damp.	brown ((10YR 5/4), firm	i, medium plasi	ticity, some fine	sand,
				_			·					
48	48			8-								
		-		9-					•			
		-		10-			SANDY CLAY, light oliv	o broug	o /2 EV E/4) had	rd medium nla	eticity fine to	
							medium fine sand, som	e coars	e sand, organic	traces, damp.	isticity, line to	
			2.4	<u>⊽</u> 11—	[[
			•	12	目							
48	48	-		13								
20/02/0		-					Oales share at 1	a evo	4145			
1				14—			Color change to brown	нүс. ту	4/4).			
9				15	剧							
5			3.0	16								
48	48				目							
7				17—	目		SILTY SAND, olive (5Y	4/3), ve	ry fine to fine sa	and, medium pl	lastic fines, dam	ıp.
		-	2.5	18-		∑ sm						
and and and and and and and and and and				19—		∴sw:	Moist to wet. SAND, olive gray (5Y 5/	(2) wali	araded fine to	coarse sand n	on-plastic fines	
3				"3"		SM	SAND, olive gray (51 5) loose, wet. SILTY SAND, olive (5Y					
<u> </u>				20-	łĦ	ı i i	T SILIT SAND, OIVE (ST	-+/J), VE	ary mic to tille S	uriu, medidiri p	mos, wet	•

								-	CLIENT		SITE NUM	BER	LOCATION
Engir	neering	g, inc.					•	ı	Exxon M	lobil Oil Corp.	7	7-4121	10605 Foothill Blvd Oakland, California
	HES				بىا	П	T	Lο	G OF S	OIL BORING:			
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPL	SOIL SAMPLE RECOVERED	GRAPHIC				SB1	0	
48	48	-		21—			SM						
		-			lE			1	1.				
	 			22	▎▐			SA	ND, dark	gray (5Y 4/1), we	Il graded fin	e to coarse sand,	some subrounded
			0.3—	23—		X	.sw.	gra	averto 1".c	nameter, non-pias	suc ines, io	ose, wel.	
							• • • • • •			alian many (EV E	:/0\	معررالم مستعمل	and law plantic fines
12				24—	ÌΕ	=	SM	We	LTY SANL et.	, olive gray (סד כ	o/2), line sar	ia, some medium	sand, low plastic fines,
<u> </u>	10	-	1.1—	25—	Ē	X		Во	ring termif) nated at 25 feet b	gs.		
				200		╟		-			-		·
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7.41.7				42		<u> </u>							
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06 UF SOIL BORNIG 7-4121 LOGS.GPJ ETIC.GDT 6/28/05				44—									
ร์ 5						F							
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	ا میلاد								CLIENT		SITE	NUMBER	LO	CATION	
E	TI	C							Exxon Mobil Oil C			7-4121	(10605 Foo Oakland, C	alifornia
Engin	eering	g, Inc.			_	_			DRILLING AND SAMPLING METHOD	Bor S Dire	ehale de ect Push	ared to 5 feet b Technology (Ma	gs using a hand acro-Core Samp	t auger. 5400 G oling). Sampled	eoprobe Rig. with 4' liners.
LOG	OF SO	IL BOI	RING:		S	B'	11							T	
COOL	RDINA	TES:							WATER LEVEL	⊽ 12	2.3			START	FINISH
	ATION				} :				TIME	11	137			TIME 1102	TIME 1214
	ING C	·····			×			_	DATE	05/2	27/05			DATE	DATE
1	NSE N						r		REFERENCE	G	SS			5/27/05	5/27/05
INC		5/6" ER	Š		AMPLE	37.03	일	SU	RFACE CONDITIONS		1	Fop soil/Grass	8		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMF WATER S	SOIL SAM RECOVER	GRAPHIC LOG	DE	SCRIPTION BY:		<u> </u>	H. Barry			
				0-				S	ANDY CLAY, brown (1	0YR 4			asticity, fine t	o coarse san	d,
				1				da	amp.		•	•	·		
						-									
				3-							*				
				4-											
				5—		X									
36	36		1.6	6											
		-		7-				S	ILTY CLAY, yellowish l fine sand, damp.	orown	(10YR	5/4), hard, m	edium plastic	city, some ver	y fine
48	48			8-											
		-	1.9	9-		X	CL								
		-		10-											
				11											
				12-				S.	ANDY CLAY, dark yell ery fine sand, damp.	owish	prown ((10YR 4/6), h	ard, medium	plasticity, fine	# 1O
48	48	-		Ā											
C0/62/9		-		13-		·									
1		-		14—											
	15-														
<u> </u>			4.7	16—		X									
48	46	-		17—				_	olor change to olive (5	/ <u>/</u> /2\	firm				
		<u>-</u>		18					oioi ciiange io olive (o	· +(3),	, 10116.				
ON SOUR									ILTY SAND, olive (5Y	4/3), v	ery fine	to fine sand,	low plastic fi	nes, moist to	wet.
			6.6	19		-3	SM								
<u>ــا</u> دُ				20-	ΙF			1							

		7	10						CLIENT	SITE NUMBER	LOCATION
			C						Exxon Mobil Oil Corp.	7-4121	10605 Foothill Blvd
	Engin	eering	g, Inc.								Oakland, California
r	INC	HES				<u> </u>			LOG OF SOIL BORING:		
-	EN EN) YER	VS / 6	SING	E	MPLE	AMPLE FRED	岩		SB11	
	DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAR WATER	SOIL S	GRAPHIC LOG			
r	48	48							SILTY SAND, olive gray (5Y ! loose, wet.	5/2), poorly graded fine sand	, low to non-plastic fines,
-	40	+0	-		21-	ł			1 1005e, wet.		
			-			ΙĒ					
ľ				7.7	22-		X] SM			
ŀ					23—	∤Ē					
						E			Rare coarse sand.		
	12	40			24-				Fine to medium sand, non-pla	astic fines.	
-		10	-	5.9	25-	╁╞	X	<u> </u>	Boring terminated at 25 feet b	ogs.	
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7-41,					-			1			
SRING				<u> </u>	43-			1			
왕					44-	$\left \cdot \right $		1			
G OF SOIL BORING 7-4121 LOGS.GPJ ETIC.GDT 6/28/05					45_			1			

	البيات		<u> </u>				· · · · · · · · · · · · · · · · · · ·		CLIENT		SITE	NUMBER	L	OCATION	
E	T	C	•						Exxon Mobil Oil C	orp.		7-4121		10605 Foo Oakland, C	
Engir	neering	g, Înc.							DRILLING AND Borehole cleared to 5 feet bgs using a hand auger. 5400 Geoprobe Rig SAMPLING METHODS Direct Push Technology (Macro-Core Sampling). Sampled with 4' liners						
LOG	OF SC	IL BO	RING:		S	В	12		SAIVE LING INC. PROSE						
1	RDINA					*			WATER LEVEL					START	FINISH
ELEVATION TOP OF CASING:									TIME	13	356			TIME 1218	TIME 1441
	CASING BELOW SURFACE: DRILLING COMPANY: Vironex								DATE	05/2	27/05			DATE	DATE
	NSE N					7			REFERENCE	(S			5/27/05	5/27/05
INC	HES 1 &		45		u ē			SL	IRFACE CONDITIONS		-	r	•		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	SAMPLE	SAMPL	GRAPHIC LOG					Fop soil/Grass	5 	 ,	
D. S.	REC	BLC	9,5	(fee	AIRS	SOIL SAN	15 98 E	DE	SCRIPTION BY:			H. Barry			
				0-		-		S	ANDY CLAY, dark gra ome subangular gravel	y (2.5` to 1"	Y 4/1), f diamete	īrm, medium er, damp.	plasticity, fi	ne to coarse sa	and,
				1-	1										
				2-	$\left \cdot \right $		- //////								
				3			<i>\\\\\\</i>								
						1	<i>\\\\\\</i>								
-				4		1	<i>\\\\\\</i>								
				5-				c	hange to dark olive bro	wn (2	.5Y 4 /4), hard, fine s	and.		
36	36	-	2.6			X									
***		-		6-	11										
				7-											
24	24			8		Ì								16 1 .40 6	
		-		9	1			S	ILTY CLAY, yellowish income fine to very fine sa	brown and, da	(10YR amp.	5/8), hard to	very hard, n	nedium plastic	ity,
		-		45		X									
12	12		4.1—	10-											
		-	4.1—	11-	$\ \ $	X									
24	24	-		12											
		-		'2		\vee									
		-	-2.6-	13~	11	Δ									
48 97/8 	48	-	ļ	14-]										
<u>.</u>		-		፟፟፟፟	╽╞			c	color change to olive (5	Y 5/3).					
<u></u>				15					Ť						
<u> </u>				16-	┦┋										
9						X									
36	24			17—	1 E										
2	34	-		18-				្យ ន	ILTY SAND, olive (5Y	4/3), v	ery fine	to fine sand,	low plastic	fines, moist to	wet.
36 36 74121 COES. GPJ E III. GDJ		-		19-			SM								
28															
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									CLIENT	SITE NUMBER	LOCATION
	T	C g, Inc.									
		U							Exxon Mobil Oil Corp.	7-4121	10605 Foothill Blvd Oakland, California
		g, Inc.			T11						Carland, Camornia
INC	HES ı ∝	50 cc	70		PE	ᆈ	()	L	OG OF SOIL BORING:	0740	
Ē	RECOVER	WS /	ON CO	#_	NAPLE R SAN	MERION NEWS	PHG			SB12	
DRIVEN	REC	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPI WATER SA		GRAPHIC LOG				
	40		7.3		Ħ						
48	48	-		21—	目			F	fine to medium sand, some co	oarse sand, wet.	
		-			ΙĦ		SM				
		-		22-	┨	X		1			
		-	8.8	23-				}			
				23				S	SAND, olive gray (5Y 5/2), wel ounded gravels to 1.25* diame	Il graded fine to coarse sand eter, non-plastic fines, loose.	, some subrounded to , wet.
				24—	┦▤			1	•	•	
24	24						sw:				
	· · -	_		25	1目			(Color change to brown (10YR	4/3).	
		-	5.1—	26-	胃	X			Boring terminated at 26 feet be	as.	
						H		-		•	
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				29-	$\left\{ \right\} \left[\right]$	Н					•
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2 7 7				42-	$\left\{ \left \cdot \right \right $	Н					
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G OF SOIL BORING 7-4121 LOGS,GPJ ETIC.GDT 6/28/05				44							
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									CLIENT		SITE	NUMBER	L	OCATION	
	T	G							Exxon Mobil Oil C	orp.	ı	7-4121	-	10605 Foo Oakland, C	
Engir	neering	g, Inc.							DRILLING AND Borehole cleared to 5 feet bgs using a hand auger. 5400 Geoprobe Rig. SAMPLING METHODS Direct Push Technology (Macro-Core Sampling). Sampled with 4' liners.						
LOG	OF SO	IL BO	RING:		S	B	13	_							
i	RDINA		,					-	WATER LEVEL	<u>⊽</u> 14				START	FINISH
į	ELEVATION TOP OF CASING: CASING BELOW SURFACE:								TIME	15	521			TIME	TIME
									DATE	05/2	27/05			1445 DATE	1455 DATE
	LING C NSE NI					,			REFERENCE	G	SS			5/27/05	5/27/05
	HES							sui	RFACE CONDITIONS			:	·	<u> </u>	
	RECOVER	BLOWS / 6" SAMPLER	OVA READING	 <u>E</u>	MPLE	AMPLE	GRAPHIC LOG				7	op soil/Gras	5		
DRIVEN	REC(BLO\ SAMI	REAL	DEPTH (feet)	MATER SA	SOILS	SPA SPA	DE	SCRIPTION BY:			H. Barry			
				0-		F	//////	s,	ANDY CLAY, olive bro	wn (2.	5Y 4/3)	, firm, mediui	n plasticity,	fine to medium	n
		•		1_				sa	and, some coarse sand	l, dam	ip.				
				'		-									
				2—											
				3_											
						┢									
				-				C	olor change to light yel	lowish	brown	(10YR 5/4), I	nard.		
				5—		X									
36	36	-	2.9	6-											
		-		"											
				7—				S	ANDY CLAY, brown (1	0YR 4	l/3), har	d, medium pl	asticity, fine	sand, damp.	
-				8-											
48		_				┟									
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	32	-		10—											
				11—											
			2.9	''		Х									
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C0/97/9															
_				14—											
				15				C	olor change to olive (5)	/ 4/3).					
3			6.5	16		X									
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S S S S S S S S S S S S S S S S S S S		-		18-							_				
اد			_, -	40		X		CI	AYEY SAND, olive (5	Y 4/3)	, fine sa	and, firm to so	oft, low plas	ticity, wet.	
5			 4.7	19—											
ર્⊩—				20	ΙĦ		[<i>[[]</i> []	1							

							CLIENT	SITE NUMBER	LOCATION
Engir	neering	Cg, Inc.			٠		Exxon Mobil Oil Corp	. 7-4121	10605 Foothill Blvd Oakland, California
	HES				Щ		LOG OF SOIL BORING	•	
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPL	SOIL SAMPLE RECOVERED GRAPHIC LOG		SB13	·
48	48	•					SILTY SAND, olive gray (5Y	5/2), fine sand, loose, non-p	lastic fines, wet.
		-		21—		SM			
				22-		→	Some medium to coarse san SAND, olive gray (5Y 5/2), w	d. ell graded fine to coarse san	d, loose, non-plastic
			-5.4-	23—		×.sw·	fines, wet.		
12	12			24—					
12	12	•	6.5	25—		X 3::::::	Color change to dark yellowis diameter. Boring terminated at 25 feet		nded gravel to 1.25"
				26—	$\left\{ \left \right \right $	A	Soring terrimizated at 20 leet	-9 	
				27—					
				28—					
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Appendix D

Exxon Company, U.S.A. Internal Correspondence

1700 NORTH BROADWAY . WALNUT CREEK, CALIF. 94596

MARKETING DEPARTMENT ENGINEERING AND MAINTENANCE SUPPORT CENTER RECEIVED JUN 2 2 1982

L.L.G.

RECEIVED

JUN 21 1982

CLARKSON SPARKMAN WAMBLE MALLERY MEREDITH FILE

		MOTE V	ļ
Mothball () Surplus ()	BWELL	HANDLE X	មខ្
Deactivation SS # 4/2	PMS		W0n ⊡
Street Address 10605 Foothill Blvd	III DE	JUN 2 2 1932	Li Å
City, State Ockland, CA	49C 0	/ •• = = e=	5
<u>,</u>	JAL 🗆		FILED
		RECEIVED	ŧ
Region Market Development		REAL ESTATE	
Real Estate Group			

Deactivation of the subject service station has been completed. The underground tanks have been:

Engineering & Maintenance Support

BY _ Lors Stoneham

cc: Retail Sales District Manager - w/o attachment
Houston Accounting Center - Fixed Assets Section - w/attachments
Property Tax Department - Houston - w/o attachment
Maintenance Center Files

A.K

MARKETING DEPARTMENT WESTERN REGION

BERT W. HULS Real estate manager October 21, 1981

Ms. Mary Beth Groce General Accounting Room 417 - Brookhollow Houston Accounting Center, Texas RAS #4121 Foothill Blvd. & 106th Ave. Oakland, California

The subject surplus property was subleased to N.A.R.C. for a term commencing 9-1-81 with, however, the rental not to become effective until 11-1-81.

Due to vandalism the sublessee has requested his sublease cancelled effective 9-30-81 - see attached copy of letter dated 10-2-81.

The Sublessee had paid in advance his \$500 month rental for the month of November 1981 (the commencement of rental). As the Sublessee vacated the property before the rental became effective, please refund to the undernoted address the prepaid \$500.

Refund \$500 to:

N.A.R.C.

Attention Mr. Klaus Eisele, President

45300 Industrial Way - Unit 15

Fremont, California 94538

Approval has been given to raise all improvements on the property, including the underground tanks and piping.

Please change your records accordingly.

Thank you.

Lois L. Gardiner

11g Attachment

cc: J. A. Hammerbacher - Property Tax - Houston - w/attachment Linda Ford - Accounts Receivable - Houston - w/o attachment P. G. Wiesehahn - San Francisco District - w/attachment

1700 NORTH BROADWAY - WALNUT CREEK, CALIFORNIA 94596 - (415) 937-3500

MARKETING DEPARTMENT SAN FRANCISCO DISTRICT

October 2, 1981

F. M. Schneider Dallas

RE: Sublease R.A.S. 4121, 106th and Foothill, Oakland, CA

This property was recently subleased to Klaus Eisele to be used as an emergency road service facility. The first vehicle the sublessee left in the building overnight was stripped by persons unknown. The sublessee's insurance company promptly cancelled the insurance coverage. The tenant is no longer using subject property and requests that the sublease be cancelled effective September 30, 1981.

P. G. Wiesehahn

1w

cc: G. A. Gallaher

EXON COMPANY, U.S.A. 5151 BELT LINE ROAD • DALLAS, TEXAS 75240

RECEIVED OCT 2 0 1981, L.L.G.

MARKETING DEPARTMENT WESTERN REGION

October 20, 1981

RAS:4121 106th & Foothill Oakland, California

Mr. Paul G. Wiesehahn San Francisco District

Your recommendation to clear the property of all Exxon improvements, including underground tanks and piping has been approved by region management. Copy of the approval attached.

James T. Clark

JTC:ct

c-Mr. G. A. Gallaher Mr. R. H. Welborn

	BWH Speed L	etter.	*
To L. L. Hardener	1 1 DOT 2 2 1001	WDH	EXXON COMPANY, U.S.A.
102.0.	JTC []	FIEED	San Francisco District Office
	· F	_0	1700 North Broadway, No. 400
	REAL ESTATE	1	Walnut Creek, California 94596
Subject R.A. 4121		orthill	Oakland Ga
-No. 98 10 FOLD			20-19
MESSAGE	·		Date RECEIVED
			OCT 2 6 1981
Sublease on	subject pro	exerty h	(\$500°) To returned
Diana genne	at advence	routal	(500 -) To returned
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to sublissee.	<u> </u>		
			- (x / x) -
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			1 lon 10 was
		/	(10)
~No.9FOLD		J.	Tenk you
-NO. 10 FOLD C: 7. M. Son	meider	Signed	Tan Therehole
REPLY	COTTO DANS TO THE TOTAL OF THE PROPERTY OF THE TOTAL OF T		Date19
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		and the second s	
		<u> </u>	
-No.9& 10FOLD			
		Signed	

1700 NORTH BROADWAY · WALNUT CREEK, CALIFORNIA 94596 · (415) 937-3500

MARKETING DEPARTMENT SAN FRANCISCO DISTRICT

October 2, 1981

F. M. Schneider Dallas

Re: R.A.S. 4121, 106th & Foothill, Oakland, CA

Subject property was surplused on August 27, 1981. Signs and portable equipment have been removed to storage. The property was subleased for a short period but vandalism forced the sublessee to close and request an early cancellation of his sublease.

The expiration date of the Master Lease is August 3, 1984. The Lessor will not cancel early unless he finalizes a lease with others, or sells the property. He will make an effort to do so after Exxon has cleared the property and removed the underground tanks.

According to the Lessor, Paragraph 5 of the Lease was modified to assure him that Exxon would remove all improvements and underground tanks at the expiration of the Lease.

It is my recommendation to clear the property of all Exxon improvements, including underground tanks and piping at this time. This proposal has been discussed with G. A. Gallaher and has his approval.

P. G. Wiesehahn

lw

cc: G. A. Gallaher

J. T. Clark

77/ Showiter

Approper 10-15
Bert W. Huis Date

RECEIVED

SEP 2 5 1981

EXON COMPANY, U.S.A.

1700 NORTH BROADWAY · WALNUT CREEK, CALIFORNIA 94596 · (415) 937-3500

L.L.G.

MARKETING DEPARTMENT SAN FRANCISCO DISTRICT

September 22, 1981

NOTE J
HANDLE X
BWH | LLG | WDH |
JOT | SEP 25 1981 FILE Z
ARC | |
JTC | RECEIVED
REAL ESTATE

Mr. G. Ernest Lopez Taylor Building, Suite 101 250 Juana Avenue San Leandro, CA 94577

Re: RAS 4121 106th & Foothill Oakland, CA

Dear Mr. Lopez:

A work order has been processed to remove Exxon signs and portable equipment from subject premises. The premises will also be cleared of the debris which has accumulated on the premises since the facility was closed.

Yours truly,

P. G. Wiesehahn

Real Estate Representative

:Iw

CC: 7. M. Achneider L

Appendix E

Historical Information Summary

Summary of Historical Information Environmental Data Resources, Inc. Former Exxon RS 7-4121

City Directory

1920-1965 – not listed in research source

1967 - Foothill Enco Service Station, source R.L. Polk & Co.

1970 - Enco Product Service Stations, source R.L. Polk & Co.

1973 – not listed in research source

1975 – Exxon Product Service Stations, source Pacific Telephone

1976, 1979 – not listed in research source

1980 - Exxon Product Service Stations, source Pacific Telephone

1982-2002 not listed in research source

Sanborn Map

1926 - property shown as vacant

1949 - property shown as vacant

1952 – property shown as vacant

1959-property shown as vacant

1960- property shown as vacant

1961 – property shown as vacant

1965 – building shown as "gas & oil"

1968 - building shown as "gas & oil"

1969-building shown as "gas & oil"

Historical Topographic Map

1993, San Leandro Quad 1:24,000

1959-1980, San Leandro Quad, Photorevised 1:24,000

1959-1973, San Leandro Quad, Photorevised 1:24,000

1959-1968, San Leandro Ouad, Photorevised 1:24,000

1959, San Leandro Quad, 1:24,000

1948, Howard Quad, 1:50,000

1948, San Leandro Quad, 1:24,000

1899, Haywards Quad, 1:62,500

Radius Map

LUST database:

- Exxon #7-4121 10605 Foothill Blvd, Target Property
- Southland "Pro Ect" 10501 Foothill Blvd 0-1/8 NW
- USA Petroleum 10700 Macarthur Blvd 1/8-1/4 SW
- Arco 10600 Macarthur Blvd 1/8-1/4 WSW
- Shell #13-5676 230 Macarthur Blvd ¼-1/2 SSE

• Kaiser Permanente Medical Center 280 Macarthur Blvd ¼-1/2SSE

State active and inactive UST locations:

- USA Petroleum 10700 Macarthur Blvd 1/8-1/4SW
- Arco 10600 Macarthur Blvd 1/8-1/4WSW
- Macarthur Auto Service Center 10511 Macarthur Blvd 1/8-1/4W

Aerial Photography Prints:

```
1939 1"=555'
1946 1"=655'
1958 1"=555'
1965 1"=333' *
1982 1"=690'
1993 1"=666'
1998 1"=666'
```

^{*} this photograph shows the dispenser islands and building

Appendix F

The EDR Radius Map, Table of Contents, and Executive Summary



The EDR Radius Map with GeoCheck®

Former Exxon RS 7-4121 10605 Foothill Boulevard Oakland, CA 94605

Inquiry Number: 1410819.2s

May 02, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

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Physical Setting Source Summary.	A-2
Physical Setting Source Map.	A-8
Physical Setting Source Map Findings.	
Physical Setting Source Records Searched	

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

10605 FOOTHILL BOULEVARD OAKLAND, CA 94605

COORDINATES

Latitude (North):

37.744500 - 37" 44" 40.2"

Longitude (West):

122,149500 - 122' 8' 58.2"

Universal Tranverse Mercator: Zone 10 UTM X (Meters):

574932.5 4177602.8

UTM Y (Meters): Elevation:

87 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:

37122-F2 SAN LEANDRO, CA

Source:

USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site

Database(s)

EPA ID

EXXON #7-4121 10605 FOOTHILL BLVD OAKLAND, CA

LUST

N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

..... National Priority List

Proposed NPL Proposed National Priority List Sites

, System

CERC-NFRAP...... CERCLIS No Further Remedial Action Planned

RCRA-TSDF...... Resource Conservation and Recovery Act Information RCRA-LQG Resource Conservation and Recovery Act Information

ERNS Emergency Response Notification System

STATE ASTM STANDARD

Amnual Workplan Sites Cal-Sites Calsites Database

CHMIRS...... California Hazardous Material Incident Report System

Toxic Pits...... Toxic Pits Cleanup Act Sites SWF/LF..... Solid Waste Information System WMUDS/SWAT...... Waste Management Unit Database
CA BOND EXP. PLAN...... Bond Expenditure Plan

VCP..... Voluntary Cleanup Program Properties

INDIAN LUST...... Leaking Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision

Delisted NPL...... National Priority List Deletions

FINDS....... Facility Index System/Facility Identification Initiative Program Summary Report

HMIRS..... Hazardous Materials Information Reporting System

MLTS...... Material Licensing Tracking System

MINES..... Mines Master Index File NPL Liens Federal Superfund Liens PADS PCB Activity Database System US ENG CONTROLS Engineering Controls Sites List ODI..... Open Dump Inventory

DOD...... Department of Defense Sites INDIAN RESERV Indian Reservations UMTRA...... Uranium Mill Tailings Sites FUDS..... Formerly Used Defense Sites

RAATS RCRA Administrative Action Tracking System TRIS Toxic Chemical Release Inventory System
TSCA Toxic Substances Control Act

SSTS...... Section 7 Tracking Systems

FTTS INSP...... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, &

Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

Aboveground Petroleum Storage Tank Facilities

CLEANERS...... Cleaner Facilities CA WDS...... Waste Discharge System DEED...... Deed Restriction Listing

REF....... Unconfirmed Properties Referred to Another Agency

WIP Well Investigation Program Case List

EML Emissions Inventory Data NFA...... No Further Action Determination NFE...... Properties Needing Further Evaluation SCH_____School Property Evaluation Program

HAZNET Facility and Manifest Data

BROWNFIELDS DATABASES

EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/13/2005 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

 Lower Elevation
 Address
 Dist / Dir
 Map ID
 Page

 WALGREENS 3165
 10721 MACARTHUR BLVD
 1/8 - 1/45SW
 3
 7

STATE ASTM STANDARD

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 3 Cortese sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir Ma	ip ID Page
SOUTHLAND PRO ECT	10501 FOOTHILL BLVD	0 - 1/8 NW 2	
USA PETROLEUM	10700 MACARTHUR BLVD	1/8 - 1/4SW A5	
ARCO	10600 MACARTHUR BLVD	1/8 - 1/4WSW B9	

NOTIFY 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ARCO SERVICE STATION #276	10600 MACARTHUR BOULEVA	1/8 - 1/4 SW	A10	17

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/10/2005 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SOUTHLAND PRO ECT USA PETROLEUM ARCO SHELL #13-5676 KAISER PERMANENTE MEDICAL CENT	10501 FOOTHILL BLVD 10700 MACARTHUR BLVD 10600 MACARTHUR BLVD 230 MACARTHUR BLVD 280 MACARTHUR BLVD	0 - 1/8 NW 1/8 - 1/4 SW 1/8 - 1/4 WSW 1/4 - 1/2 SSE 1/4 - 1/2 SSE	B9 12	6 10 15 18 18

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/10/2005 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ARCO #276	10600 MACARTHUR BLVD	1/8 - 1/4SW	7	13

EXECUTIVE SUMMARY

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
USA PETROLEUM ARCO MACARTHUR AUTO SERVICE CENTER	10700 MACARTHUR BLVD 10600 MACARTHUR BLVD 10511 MACARTHUR BLVD	118 - 1145W 118 - 114WSW 1/8 - 1/4W		10 15 17

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
USA PETROLEUM COMPANY #57	10700 MACARTHUR BLVD	1/8 - 1/4 SW	A6	12
TONY M CHOUDHARY	10600 MACARTHUR BLVD	1/8 - 1/4 WSW	B8	13

STATE OR LOCAL ASTM SUPPLEMENTAL

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the CA SLIC list, as provided by EDR, has revealed that there is 1 CA SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
FOOTHILL SQUARE SHOPPING CTR	10700 MACARTHUR BOULEVA	1/8 - 1/4SW	A4	9

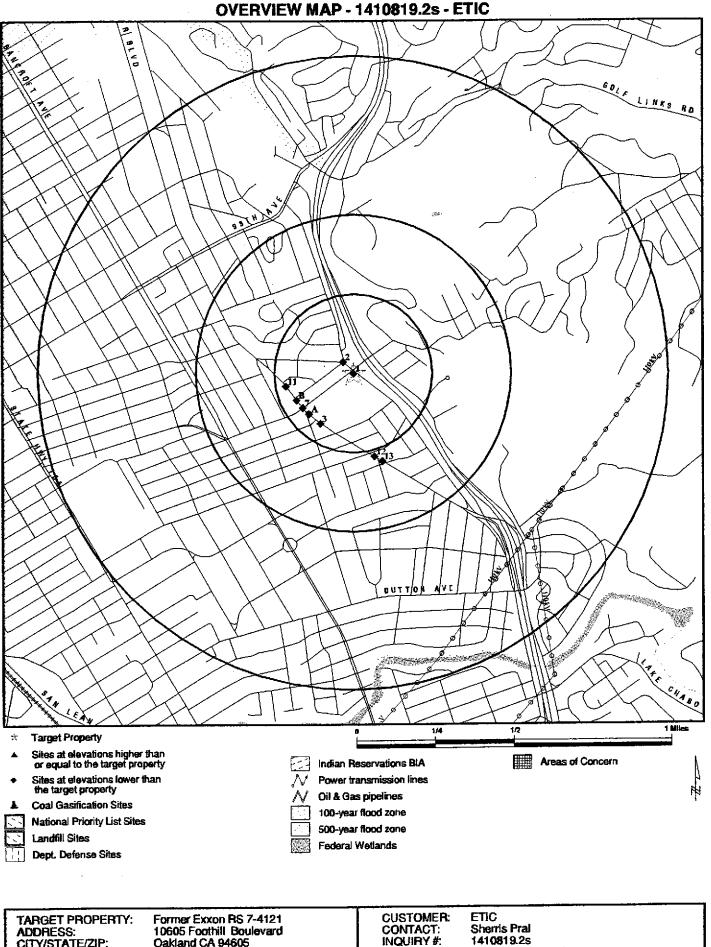
EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
5TH AVE ALAMEDA CNTY FOOD BANK	LUST, CHMIRS HAZNET, LUST, CHMIRS, CA WDS
MORTENSEN CORPORATION LAKE CHABOT LANDFILL BATAVIA PROPERTY MARINA DSPL SITE TONY LEMA GOLF COURSE LDFL CAPITOL WASTE RECYCLING NORTH PORT OF OAKLAND REFUSE DS/RAIDERS SHEPHERD CANYON PARK IDS VERDESE CARTER PARK CALTRANS SF-OAKLAND BAY BRIDGE EXXON #7-3894 CHEVRON #3-0520 UNOCAL #3538 CHEVRON #9-2029 BLAZIC INDUSTRIAL BALANCING OAKLAND ARMY BASE BLDG. 991 OAKLAND ARMY BASE TK15 OAKLAND ARMY BASE TK3 (WHARF NO. 7) OAKLAND ARMY BASE TK1 (BLDG. 1) OAKLAND ARMY BASE TK2 (BLDG. 1) MOIA, FAA ASR #9 OAKLAND TERMINAL RAILWAY PROPERTY	CERC-NFRAP CERC-NFRAP CERC-NFRAP CERC-NFRAP CERC-NFRAP SWF/LF SWF/LF SWF/LF LUST LUST LUST LUST LUST LUST LUST LUST
CYPRESS FREEWAY RECONSTRUCTION	CA SLIC



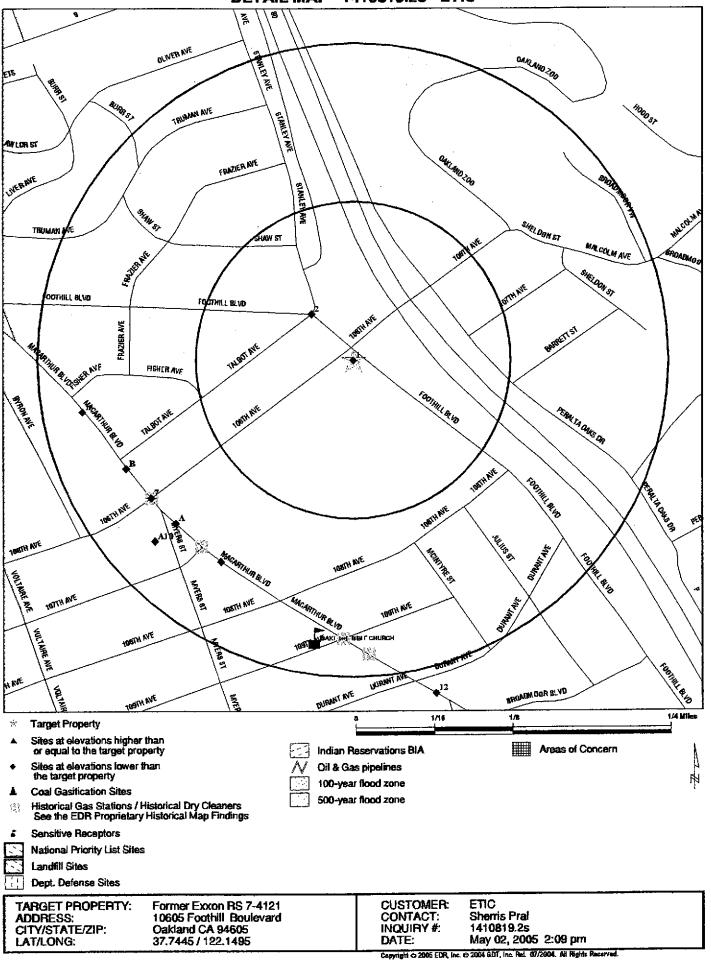
CITY/STATE/ZIP: LAT/LONG:

Oakland CA 94605 37.7445 / 122.1495

1410819.2s May 02, 2005 2:09 pm

DATE: Copyright © 2005 EDR, Inc. © 2004 SDT, Inc. Rel. 07/2004. All Rights Reserved.

DETAIL MAP - 1410819.2s - ETIC



Appendix G

Field Protocols

PROTOCOLS FOR INSTALLATION, SAMPLING, AND ABANDONMENT OF SINGLE-TUBE DIRECT-PUSH BORINGS

SUBSURFACE CLEARANCE SURVEY PROCEDURES

Prior to drilling, the proposed locations of the borings will be marked with white paint. Underground Service Alert (USA) will be contacted prior to subsurface activities and a "ticket" will be 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, all proposed boreholes locations will be investigated by subsurface clearance surveys to identify possible buried hazards (e.g, pipelines, drums, tanks). Subsurface clearance surveys use several geophysical methods to locate shallow buried man-made objects. The geophysical methods include electromagnetic induction (EMI) profiling, ground penetrating radar (GPR), and/or magnetic surveying. The choice of methods depends on the target object and potential interference from surrounding features.

Prior to drilling, all boreholes will be 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 will be cut in the surface cover at each boring location. A hole, greater than the diameter of the drilling tool being used, will then be cleared at each boring location, using a hand auger or vacuum excavation system. The vacuum system consists of a water or air lance, used to disturb native soil by injecting water or air into the soil, and a vacuum, used to remove the soil.

SOIL CORING PROCEDURES

Soil samples are collected for visual description and chemical analysis using a direct driven single tube soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous or discrete soil cores. 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 rods. Soil samples are collected in sleeves inside the sample barrel as the rods are advanced. After being driven 2 to 4 feet (depending on the sample interval and the length of the sample barrel), the rods are removed from the boreholes. The sleeves containing the soil samples are removed from the sample barrel, and can then be preserved for chemical analyses or used for visual identification. Samples to be preserved for chemical analyses are sealed with Teflon tape and caps, and placed in a cooler with ice. The soil is scanned with a flame ionization detector or a photo-ionization detector. After adding new sleeves, the drive sampler and rods are then lowered back into the boreholes to the previous depth and the process is repeated until the desired depth is reached.

All drive casing, sample barrels, rods, and tools are cleaned with Alconox or equivalent detergent and deionized water. All soil is contained in drums or stockpiles for later disposal.

GROUNDWATER SAMPLING PROCEDURES

After the targeted water-bearing zone has been penetrated, the drive casing, sample barrels and rods are pulled up to allow groundwater to flow into the boreholes. Small-diameter well casing with 0.010-inch slotted well screen or equivalent may be installed in the boreholes to facilitate the collection of groundwater samples. Groundwater samples may then be 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 chemical analysis.

BOREHOLES GROUTING

Once the soil and water sampling is completed, boreholes will be abandoned with a neat cement grout. The grout is pumped through a tube positioned at the bottom of the boreholes.

Appendix H

Laboratory Analytical Reports



2960 Foster Creighton Drive • Nashville, Tennessee 37204 800-765-0980 • 615-726-3404 Fax

6/ 7/05

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 7-4121

Project Number: .

Laboratory Project Number: 417779.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
SB5,20'	05-A77355	5/26/05
SB6,22'	05-A77356	5/26/05
SB7,19'	05-A77357	5/26/05
SB8.18'	05-A77358	5/26/05



2960 Foster Creighton Drive • Nashville, Tennessee 37204 800-765-0980 • 615-726-3404 Fax

Sample Identification

Lab Number

Page 2 Collection Date

Report Date: 6/ 7/05

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Roxanie & Convo

Report Approved By:

Johnny A. Mitchell, Laboratory Director Michael H. Dunn, M.S., Technical Director Pamela A. Langford, Senior Project Manager Eric S. Smith, QA/QC Director

Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager Glenn L. Norton, Technical Services Kelly S. Comstock, Technical Services Roxanne L. Connor, Senior Project Manage Mark Hollingsworth, Director of Project

Laboratory Certification Number: 01168CA

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2960 Foster Greighton Drive • Nashville, Tennesser 37204 800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A77355 Sample ID: SB5,20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 10:15 Date Received: 5/28/05 Time Received: 7:40

			Report	Dil	Analysis	Analysi	Ls		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
									
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 5/05	21:48	Chakrabort	8021B	5892
**Ethylbenzene	ND	ug/l	0.5	1.0	6/ 5/05	21:48	Chakrabort	8021B	5892
**Toluene	ND	ug/1	0.5	1.0	6/ 5/05	21:48	Chakrabort	8021B	5892
**Xylenes (Total)	ND	ug/l	0.5	1.0	6/ 5/05	21:48	Chakrabort	8021B	5892
**TPH (Gasoline Range)	ND	ug/l	50.0	1.0	6/ 3/05	23:36	G.Guirguis	8015B	716
**TPH (Diesel Range)	341.	ug/l	50.	1.0	6/ 1/05	4:38	M.Jarrett	8015B/3510	1867
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 4/05	17:36	C. Wani	8260B	4787

Silica Gel Cleanup performed for TPH-DRO analysis.

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
ЕРЙ	1000 m	al 1.00 ml	5/31/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	79.	52 132.
BTEX/GRO Surr., a,a,a-TFT	97.	63 134.
VOA Surr 1,2-DCA-d4	99.	70 130.
VOA Surr Toluene-d8	104.	78 121.
VOA Surr, 4-BFB	107.	78 126.
VOA Surr, DBFM	99.	79 122.



2960 FOSTER CREIGHTON DRIVE . NASHVILLE, TENNESSEE 37204 800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A77355 Sample ID: SB5,20'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204 800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A77356 Sample ID: SB6,22' Sample Type: Water Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 12:05 Date Received: 5/28/05 Time Received: 7:40

			Report	Dil	Analysis	Analys	is		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
					*				
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 5/05	22:20	Chakrabort	8021B	5892
**Ethylbenzene	ND	ug/l	0.5	1.0	6/ 5/05	22:20	Chakrabort	8021B	5892
**Toluene	ND	ug/l	0.5	1.0	6/ 5/05	22:20	Chakrabort	80218	5892
**Xylenes (Total)	ND	ug/l	0.5	1.0	6/ 5/05	22:20	Chakrabort	80218	5892
**TPH (Gasoline Range)	ND	ug/l	50.0	1.0	6/ 3/05	23:51	G.Guirguis	8015B	716
**TPH (Diesel Range)	ИD	ug/l	56.	1.0	6/ 1/05	4:57	M.Jarrett	8015B/3510	1867
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 4/05	18:03	C. Wani	8260B	4787

Silica Gel Cleanup performed for TPH-DRO analysis.

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	900. m	1 1.00 ml	5/31/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	98.	52 132.
BTEX/GRC Surr., a,a,a-TFT	95.	63 134.
VOA Surr 1,2-DCA-d4	97.	70 130.
VCA Surr Toluene-d8	107.	78 121.
VCA Surr, 4-BFB	445. #	78 126.
VOA Surr, DBFM	98.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A77356

Sample ID: SB6,22'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

8260 surrogate recovery elevated due to matrix. Sample

non-detect for targets.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A77357 Sample ID: SB7,19' Sample Type: Water Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 14:00 Date Received: 5/28/05 Time Received: 7:40

			Report	Dil	Analysis	Analysi	LS		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**Benzeлe	ND	ug/l	0.50	1.0	6/ 5/05	22:52	Chakrabort	8021B	5892
**Ethylbenzene	ND	ug/l	0.5	1.0	6/ 5/05	22:52	Chakrabort	8021B	5892
**Toluene	ND	ug/l	0.5	1.0	6/ 5/05	22:52	Chakrabort	8021B	5892
**Xylenes (Total)	OM	ug/l	0.5	1.0	6/ 5/05	22:52	Chakrabort	8021B	5892
**TPH (Gasoline Range)	ND	ug/l	50.0	1.0	6/ 4/05	0:05	G.Guirguis	8015B	716
**TPH (Diesel Range)	57.	ug/l	56.	1.0	6/ 1/05	5:15	M.Jarrett	8015B/3510	1867
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 4/05	18:30	C. Wani	8260B	4787

Parameter	Wt/Vol Extracted E	xtract Vol	Date	Time	Analyst	Method
ЕРН	900. ml	1.00 ml	5/31/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	84.	52 132.
BTEX/GRO Surr., a,a,a-TFT	96.	63 134.
VOA Surr 1,2-DCA-d4	98.	70 130.
VOA Surr Toluene-d8	105.	78 121.
VOA Surr, 4-BFB	107.	78 126.
VOA Surr, DBFM	99.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A77357

Sample ID: SB7,19'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A77358 Sample ID: SB8,18' Sample Type: Water Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 15:20 Date Received: 5/28/05 Time Received: 7:40

			Report	Dil	Analysis	Analysi	is		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**Benzene	75.7	ug/l	0.50	1.0	6/ 5/05	23:24	Chakrabort	8021B	5892
**Ethylbenzene	4.7	ug/l	0.5	1.0	6/ 5/05	23:24	Chakrabort	8021B	5892
**Toluene	0.5	ug/ 1	0.5	1.0	6/ 5/05	23:24	Chakrabort	8021B	5892
**Xylenes (Total)	4.7	ug/l	0.5	1.0	6/ 5/05	23:24	Chakrabort	8021B	5892
**TPH (Gasoline Range)	824.	ug/l	50.0	1.0	6/ 4/05	0:20	G.Guirguis	8015B	716
**TPH (Diesel Range)	801.	ug/l	56.	1.0	6/ 1/05	5:34	M.Jarrett	8015B/3510	1867
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 4/05	18:58	C. Wani	8260B	4787

Silica Gel Cleanup performed for TPH-DRO analysis.

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
ЕРН	900. m	ıl 1.00 ml	5/31/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	74.	52 132.
BTEX/GRO Surr., a,a,a-TFT	125.	63 134.
VOA Surr 1,2-DCA-d4	98.	70 130.
VOA Surr Toluene-d8	104.	78 121.
VOA Surr, 4-BFB	108.	78 126.
VOA Surr, DBFM	98.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A77358

Sample ID: SB8,18'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E} = {\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 1

Laboratory Receipt Date: 5/28/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Diesel Range)	mg/l	< 0.050	0.745	1.00	74	35 124.	1867	blank
VOA Surr 1,2-DCA-d4	% Rec				98	70 - 13	0 4787	
VOA Surr Toluene-d8	% Rec				103	78 - 12	1 4787	
VOA Surr, 4-BFB	% Rec				102	78 - 12	6 4787	
VOA Surr, DBFM	% Rec				102	79 - 12	2 4787	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Diesel Range)	mg/l	0.745	0.757	1.60	36.	1867
VOA Surr 1,2-DCA-d4	% Rec		97.			4787
VOA Surr Toluene-d8	% Rec		103.			4787
VOA Surr, 4-BFB	% Rec		100.			4787
VOA Surr, DBFM	% Rec		101.			4787

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	<pre>% Recovery</pre>	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.111	111	72 - 118	5892
Toluene	mg/l	0.100	0.108	108	72 - 119	5892
Ethylbenzene	mg/l	0.100	0.111	111	71 - 119	5892
Xylenes (Total)	mg/l	0.300	0.317	106	70 - 117	5892
TPH (Gasoline Range)	mg/l	1.00	0.952	95	64 - 130	716



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 2

Laboratory Receipt Date: 5/28/05

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
TPH (Gasoline Range)	mg/l	1.00	0.961	96	64 - 130	716
BTEX/GRO Surr., a,a,a-TFT	% Recovery			100	63 - 134	5892
UST PARAMETERS						
TPH (Diesel Range)	mg/l	1.00	0.765	76	41 - 120	1867
VOA PARAMETERS						
Methyl-t-butyl ether	mg/l	0.0500	0.0535	107	69 - 136	4787
VOA Surr 1,2-DCA-d4	% Rec			95	70 - 130	4787
VOA Surr Toluene-d8	% Rec			105	78 - 121	4787
VOA Surr, 4-BFB	% Rec			98	78 - 126	4787
VOA Surr, DBFM	% Rec			101	79 - 122	4787

Duplicates

Analyte	units	Orig. Val. Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00050	mg/l	5892	6/ 5/05	20:45
Toluene	< 0.0005	mg/l	5892	6/ 5/05	20:45
Ethylbenzene	< 0.0005	mg/1	5892	6/ 5/05	20:45
Xylenes (Total)	< 0.0005	mg/l	5892	6/ 5/05	20:45
TFH (Gasoline Range)	< 0.0500	mg/l	716	6/ 3/05	22:22
TFH (Gasoline Range)	< 0.0500	mg/l	716	6/ 3/05	22:37
TPH (Diesel Range)	< 0.050	mg/l	1867	6/ 1/05	8:09



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 3

Laboratory Receipt Date: 5/28/05

BTEX/GRO Surr., a,a,a-TFT	96.	% Recovery	5892	6/ 5/05	20:45
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.00023	mg/l	4787	6/ 4/05	16:41
VOA Surr 1,2-DCA-d4	98.	% Rec	4787	6/ 4/05	16:41
VOA Surr Toluene-d8	103.	% Rec	4787	6/ 4/05	16:41
VOA Surr, 4-BFB	107.	% Rec	4787	6/ 4/05	16:41
VOA Surr, DBFM	99.	% Rec	4787	6/ 4/05	16:41

^{# =} Value outside Laboratory historical or method prescribed QC limits.

Test/America

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Nashville Division

Phone: 615-726-0177

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Toll Free: 800-765-0980

ExconMobil.

Nashville, TN 37204 Fax: 615-726-3404 Report To: Sherris Prall Consultant Name: ETIC ENGINEERING 417779 Invoice To: Jennifer Sedlachek (ExxonMobil PM) Address: 2285 MORELLO AVENUE Account #: 10236 City/State/Zip: PLEASANT HILL, CA. 94523 PO #: ExxonMobil Project Mgr: Sherris Pral Facility ID # 7-4121 Telephone Number: (925) 602-4710, ext 20 Fax No.: (925) 602-4720 WYNN GHOULS IL Sampler Name: (Print), Site Address 10605 Foothill Boulevard City, State Zip Oakland, CA Sampler Signature: V Preservative Matrix Analyze For: TAT request (in Bus. Days STD TAT RUSH TAT (Pre-Schedule 8015/8021 Shipped H₂SO₄ Plastic (Yellow Label) NaOH (Orange Label) No. of Containers None (Black Label) TPH-g/BTEX by HNO, (Red Label) Date Sampled Time Sampled TPH-d by 8015 Field Fittered Orinking Water Groundwater Fax Results Composite MTBE by Grab Sample ID / Description 5/26/05 8 585, Zo1 10:15 12:05 8 506,22 SB7,19' 14:00 SE8,18' 15 20 Laboratory Comments: **EDF FILE REQUIRED GLOBAL ID#** Temperature Upon Receipt: Sample Containers Intact? Y Ν VOCs Free of Headspace? Y Ν Relinquished by: WIND PrevIPIL Date Time Time Received by: 5/26/05 Time Relingul\$hed by: Date Time Received by TestAmerica:



COOLER RECEIPT FORM

BC#



Client Name: ETIC ENG	441713
Cooler Received/Opened On: 05/28/05 Accessioned B	y: <u>Benjamin C.Wright</u>
	-
	sonnel Signature
Eug-HFT ers	onner Signature
1. Temperature of Cooler when triaged: Degrees	s Celsius
2. Were custody seals on outside of cooler?	YES. NONA
a. If yes, how many and where:	
3. Were custody seals on containers ?	YESNA
4. Were the seals intact, signed, and dated correctly?	YESNONA
5. Were custody papers inside cooler?	NONA
6. Were custody papers properly filled out (ink, signed, etc)?	NONA
7. Did you sign the custody papers in the appropriate place?	NONA
8. What kind of packing material used Bubblewrap Peanuts Verm	niculite Other Non zip-lock baggies
	ry ice Other None
10. Did all containers arrive in good condition (unbroken)?	NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	NONA
12. Did all container labels and tags agree with custody papers?	NONA
13. Were correct containers used for the analysis requested?	NONA
14. a. Were VOA vials received?	NONA
b. Was there any observable head space present in any VOA vial	2 (NØYESNA
15. Was sufficient amount of sample sent in each container?	NONA
16. Were correct preservatives used?	
If not, record standard ID of preservative used here	
17. Was residual chlorine present?	NOYES. NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only	r) and Name of Courier below:
our production of the second	
Fed-Ex UPS Velocity DHL Route	Off-street Misc.
19. If a Non-Conformance exists, see attached or comments below:	



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6/ 6/05

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 7-4121

Project Number: .

Laboratory Project Number: 417982.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
SB9, 20'	05-A78298	5/27/05
SB10, 20'	05-A78299	5/27/05
SB11, 20'	05-A78300	5/27/05
SB12, 20'	05-A78301	5/27/05
SB13, 20'	05-A78302	5/27/05



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Sample Identification _____ Lab Number

Page 2 Collection Date

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Mais a dage

Report Date: 6/6/05

Johnny A. Mitchell, Laboratory Director Michael H. Dunn, M.S., Technical Director Pamela A. Langford, Senior Project Manager Eric S. Smith, QA/QC Director Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager Glenn L. Norton, Technical Services Kelly S. Comstock, Technical Services Roxanne L. Connor, Senior Project Manage Mark Hollingsworth, Director of Project

Laboratory Certification Number: 01168CA

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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78298 Sample ID: SB9, 20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 8:25 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysi	s		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
			+						
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 2/05	18:20	D. Otero	8021B	3613
**Ethylbenzene	ND	ug/1	0.5	1.0	6/ 2/05	18:20	D. Otero	8021B	3613
**Toluene	NĎ	ug/l	0.5	1.0	6/ 2/05	18:20	D. Otero	8021B	3613
**Xylenes (Total)	ND	ug/l	0.5	1.0	6/ 2/05	18:20	D. Otero	8021B	3613
**TPH (Gasoline Range)	ND	ug/l	50.0	1.0	6/ 2/05	18:20	D. Otero	8015B	3613
**TPH (Diesel Range)	ND	ug/l	50.	1.0	6/ 2/05	17:50	B. Yanna	8015B/3510	4769
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 5/05	3:14	M.Himelick	8260B	7129

Silica Gel Cleanup performed for TPH-DRO analysis.

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
FDU	1000 m	ıl 1.00 m1	6/ 2/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	107.	52 132.
BTEX/GRO Surr., a,a,a-TFT	98.	63 134.
VOA Surr 1,2-DCA-d4	87.	70 130.
VOA Surr Toluene-d8	97.	78 121.
VOA Surr, 4-BFB	103.	78 126.
VOA Surr, DBFM	99.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A78298 Sample ID: SB9, 20'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78299 Sample ID: SB10, 20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 10:10 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysi	is		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 2/05	18:52	D. Otero	8021B	3613
**Ethylbenzene	ND	ug/l	0.5	1.0	6/ 2/05	18:52	D. Otero	8021B	3613
**Toluene	ND	ug/l	0.5	1.0	6/ 2/05	18:52	D. Otero	8021B	3613
**Xylenes (Total)	0.7	ug/l	0.5	1.0	6/ 2/05	18:52	D. Otero	8021B	3613
**TPH (Gasoline Range)	54.5	ug/l	50.0	1.0	6/ 2/05	18:52	D. Otero	8015B	3613
**TPH (Diesel Range)	ND	ug/l	50.	1.0	6/ 2/05	18:11	B. Yanna	80158/3510	4769
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/1	0.50	1.0	6/ 5/05	3:37	M.Himelick	8260B	7129

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
ЕРН	1000 m	1 1.00 ml	6/ 2/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	93.	52 132.
BTEX/GRO Surr., a,a,a-TFT	98.	63 134.
VOA Surr 1,2-DCA-d4	88.	70 130.
VOA Surr Toluene-d8	94.	78 121.
VOA Surr, 4-BFB	105.	78 126.
VOA Surr, DBFM	97.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A78299 Sample ID: SB10, 20'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78300 Sample ID: SB11, 20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 11:40 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysi	is		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 2/05	19:23	D. Otero	8021B	3613
**Ethylbenzene	1.9	ug/l	0.5	1.0	6/ 2/05	19:23	D. Otero	8021B	3613
**Toluene	ND	ug/l	0.5	1.0	6/ 2/05	19:23	D. Otero	8021B	3613
**Xylenes (Total)	0.5	ug/l	0.5	1.0	6/ 2/05	19:23	D. Otero	8021B	3613
**TPH (Gasoline Range)	2250	ug/l	50.0	1.0	6/ 2/05	19:23	D. Otero	8015B	3613
**TPH (Diesel Range)	701.	ug/l	56.	1.0	6/ 2/05	18:31	B. Yanna	8015B/3510	4769
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	ug/l	0.50	1.0	6/ 5/05	4:01	M.Himelick	8260B	7129

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	900. m	1 1.00 ml	6/ 2/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	61.	52 132.
BTEX/GRO Surr., a,a,a-TFT	125.	63. ~ 134.
VOA Surr 1,2-DCA-d4	87.	70 130.
VOA Surr Toluene-d8	99.	78 121.
VOA Surr, 4-BFB	103.	78 126.
VOA Surr, DBFM	97.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A78300 Sample ID: SB11, 20'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E} = {\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78301 Sample ID: SB12, 20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 14:00 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysi	.8		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**Benzene	ND	ug/l	0.50	1.0	6/ 2/05	19:54	D. Otero	80218	3613
**Ethylbenzene	1.0	ug/l	0.5	1.0	6/ 2/05	19:54	D. Otero	8021B	3613
**Toluene	0.5	ug/l	0.5	1.0	6/ 2/05	19:54	D. Otero	8021B	3613
**Xylenes (Total)	ND	ug/l	0.5	1.0	6/ 2/05	19:54	D. Otero	8021B	3613
**TPH (Gasoline Range)	1060	ug/l	50.0	1.0	6/ 2/05	19:54	D. Otero	8015B	3613
**TPH (Diesel Range)	305.	ug/l	62.	1.0	6/ 2/05	18:52	B. Yanna	8015B/3510	4769
VOLATILE ORGANICS									
**Methyl-t-butyl ether	4.30	ug/l	0.50	1.0	6/ 5/05	4:24	M.Himelick	8260B	7129

Silica Gel Cleanup performed for TPH-DRO analysis.

	Wt/Vol						
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method	
	000 -	1 1 00 -1	6/ 2/06		.T Davis	3510	

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	102.	52 132.
BTEX/GRO Surr., a,a,a-TFT	95.	63 134.
VOA Surr 1,2-DCA-d4	81.	70 130.
VOA Surr Toluene-d8	97.	78 121.
VOA Surr, 4-BFB	102.	78 126.
VOA Surr, DBFM	95.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A78301 Sample ID: SB12, 20'

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78302 Sample ID: SB13, 20' Sample Type: Water Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 15:25 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysi	.s		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
								ww	
ORGANIC PARAMETERS									
*Benzene	ND	ug/1	0.50	1.0	6/ 2/05	20:25	D. Otero	8021B	3613
**Ethylbenzene	0.6	ug/l	0.5	1.0	6/ 2/05	20:25	D. Otero	8021B	3613
**Toluene	ND	ug/1	0.5	1.0	6/ 2/05	20:25,	D. Otero	8021B	3613
**Xylenes (Total)	ND	ug/l	0.5	1.0	6/ 2/05	20:25	D. Otero	80218	3613
**TPH (Gasoline Range)	447.	ug/1	50.0	1.0	6/ 2/05	20:25	D. Otero	8015B	3613
*TPH (Diesel Range)	121.	ug/l	56.	1.0	6/ 2/05	19:12	B. Yanna	8015B/3510	4769
VOLATILE ORGANICS									
*Methyl-t-butyl ether	14.2	ug/l	0.50	1.0	6/ 5/05	4:48	M.Himelick	8260B	7129
Silica Gel Cleanup perform	ed for TPH-DE	RO analysis.							

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	900. m	l 1.00 ml	6/ 2/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	95.	52 132.
BTEX/GRO Surr., a,a,a-TFT	98.	63. ~ 134.
VOA Surr 1,2-DCA-d4	81.	70 130.
VOA Surr Toluene-d8	97.	78 121.
VOA Surr, 4-BFB	106.	78 126.
VOA Surr, DBFM	94.	79 122.



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ANALYTICAL REPORT

Laboratory Number: 05-A78302

Sample ID: SB13, 20'

Page 2

LABORATORY COMMENTS:

 $\mbox{ND} = \mbox{Not}$ detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 1

Laboratory Receipt Date: 6/ 1/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range Q.	C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/l	< 0.00050	0.0526	0.0500	105	50 160.	3613	05-A78298
Toluene	mg/l	< 0.0005	0.0520	0.0500	104	51 157.	3613	05-A78298
Ethylbenzene	mg/l	< 0.0005	0.0545	0.0500	109	47 159.	3613	05-A78298
Xylenes (Total)	mg/l	< 0.0005	0.0992	0.100	99	51 152.	3613	05-A78298
TPH (Gasoline Range)	mg/l	< 0.0500	1.01	1.00	101	43 150.	3613	05-A78298
TPH (Diesel Range)	mg/l	< 0.050	0.714	1.00	71	35 124.	4769	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				104	63 - 134	3613	
VOA Surr 1,2-DCA-d4	% Rec				77	70 - 130	7129	
VOA Surr Toluene-d8	% Rec				99	78 - 121	7129	
VOA Surr, 4-BFB	% Rec				102	78 - 126	7129	
VOA Surr, DBFM	% Rec				93	79 - 122	7129	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0526	0.0534	1.51	30.	3613
Toluene	mg/l	0.0520	0.0528	1.53	37.	3613
Ethylbenzene	mg/l	0.0545	0.0555	1.82	38.	3613
Xylenes (Total)	mg/l	0.0992	0.100	0.80	33.	3613
TPH (Gasoline Range)	mg/l	1.01	1.01	0.00	27.	3613
TPH (Diesel Range)	mg/l	0.714	0.544	27.03	36.	4769
BTEX/GRO Surr., a,a,a-TFT	% Recovery		105.			3613
VOA Surr 1,2-DCA-d4	% Rec		76.			7129
VOA Surr Toluene-d8	% Rec		99.			7129
VOA Surr, 4-BFB	% Rec		103.			7129
VOA Surr, DEFM	% Rec		95.			7129



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 2

Laboratory Receipt Date: 6/ 1/05

Laboratory Control Data

Analyte	units		Analyzed Val	% Recovery		
UST PARAMETERS						
Benzene	mg/l	0.100	0.0959	96	72 - 118	3613
Toluene	mg/l	0.100	0.0951	95	72 - 119	3613
Ethylbenzene	mg/l	0.100	0.101	101	71 - 119	3613
Xylenes (Total)	mg/l	0.200	0.105	92	70 - 117	3613
TPH (Gasoline Range)	mg/l	1.00	1.01	101	64 - 130	3613
BTEX/GRO Surr., a,a,a-TFT	% Recovery			104	63 - 134	3613
UST PARAMETERS						
TPH (Diesel Range)	mg/l	1.00	0.493	49	41 - 120	4769
VOA PARAMETERS						
Methyl-t-butyl ether	mg/l	0.0500	0.0529	106	69 - 136	7129
VOA Surr 1,2-DCA-d4	% Rec			90	70 - 130	7129
VOA Surr Toluene-d8	% Rec			99	78 - 121	7129
VOA Surr, 4-BFB	% Rec			102	78 - 126	7129
VOA Surr, DBFM	% Rec			96	79 - 122	7129
	Duplicate	s				
Analyte units	Orig.	Val. Duplic	ate RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Benzene	< 0.00050	mg/l	3613	6/ 2/05	17:49
Toluene	< 0.0005	mg/l	3613	6/ 2/05	17:49
Ethylbenzene	< 0.0005	mg/l	3613	6/ 2/05	17:49



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 3

Laboratory Receipt Date: 6/ 1/05

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
*~~~					+
Xylenes (Total)	< 0.0005	mg/l	3613	6/ 2/05	17:49
TPH (Gasoline Range)	< 0.0500	mg/l	3613	6/ 2/05	17:49
TPH (Diesel Range)	< 0.050	mg/l	4769	6/ 2/05	16:28
BTEX/GRO Surr., a,a,a-TFT	93.	% Recovery	3613	6/ 2/05	17:49
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.00023	mg/l	7129	6/ 4/05	22:33
VOA Surr 1,2-DCA-d4	84.	% Rec	7129	6/ 4/05	22:33
VCA Surr Toluene-d8	97.	% Rec	7129	6/ 4/05	22:33
VOA Surr, 4-8FB	104.	% Rec	7129	6/ 4/05	22:33
VOA Surr, DBFM	96.	% Rec	7129	6/ 4/05	22:33

[#] = Value outside Laboratory historical or method prescribed QC limits.

Test/America

CHAIN OF CUSTODY RECORD

Nashville Division

2960 Foster Creighton

Phone: 615-726-0177

Toll Free: 800-765-0980 Fax: 615-726-3404 417982

ExonMobil

Consultant Name:	ETIC ENGINE	ERING	N 377	204						гах:	61	5- 7.	40- .	3404	ŀ		R	еро	rt T	o: 5	She	rris	Prall	ŀ						
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City/State/Zip:	PLEASANT H	ILL, CA. 9452	3			-														_	102									
ExxonMobil Project Mgr:	Sherris Pral						.,												PO	#: -										_
Telephone Number:	(925) 602-47	10, ext 20				Fa	x N	o.: <u>(</u>	925	60	2-47	20					Fa	cilit	y ID	#_	7-41	21								_
Sampler Name: (Print)	WARRIN	Paco-s	μ					_									Site	Ad	dre:	ss ´	1060	05 F	ooth	nill I	Boul	eva	rd			
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COOLER RECEIPT FORM

BC#



Client Name: ETIC Engineering
Cooler Received/Opened On: 6/01/05 Accessioned By: Shawn Gracey
Log-in Personnel Signature
1. Temperature of Cooler when triaged: Degrees Celsius
2. Were custody seals on outside of cooler?
a. If yes, how many, and where:
3. Were custody seals on containers?
4. Were the seals intact, signed, and dated correctly?
5. Were custody papers inside cooler?
6. Were custody papers properly filled out (ink, signed, etc)?
7. Did you sign the custody papers in the appropriate place?
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Ziplock Baggies Paper Other None
9. Cooling process: Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?
11. Were all container labels complete (#, date, signed, pres., etc)?
12. Did all container labels and tags agree with custody papers?
12. Did all container labels and tags agree with custody papers?
13. Were correct containers used for the analysis requested?
13. Were correct containers used for the analysis requested?
13. Were correct containers used for the analysis requested?
13. Were correct containers used for the analysis requested?
13. Were correct containers used for the analysis requested?
13. Were correct containers used for the analysis requested? YESNONA 14. a. Were VOA vials received? YESNONA b. Was there any observable head space present in any VOA vial? YESNA 15. Was sufficient amount of sample sent in each container? YESNONA 16. Were correct preservatives used? YESNONA 17. Was residual chlorine present? NOYESNA
13. Were correct containers used for the analysis requested? YESNONA 14. a. Were VOA vials received? YESNONA b. Was there any observable head space present in any VOA vial? YESNONA 15. Was sufficient amount of sample sent in each container? YESNONA 16. Were correct preservatives used? YESNONA If not, record standard ID of preservative used here
13. Were correct containers used for the analysis requested? YESNONA 14. a. Were VOA vials received? YESNONA b. Was there any observable head space present in any VOA vial? YESNA 15. Was sufficient amount of sample sent in each container? YESNONA 16. Were correct preservatives used? YESNONA 17. Was residual chlorine present? NOYESNA



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6/ 8/05

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 7-4121

Project Number: .

Laboratory Project Number: 417975.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date				
SB5, 5-5.5'	05-A78246	5/26/05				
SB5, 17.5-18'	05-A78247	5/26/05				
SB5, 24.5-25'	05-A78248	5/26/05				
SB6, 5-5.5'	05-A78249	5/26/05				
SB6, 19.5-20'	05-A78250	5/26/05				
SB6, 21.5-22'	05-A78251	5/26/05				
SB6, 24.5-25'	05-A78252	5/26/05				
SB7, 5-5.5'	05-A78253	5/26/05				
SB7, 18-18.5'	05-A78254	5/26/05				
SB7, 22.5-23'	05-A78255	5/26/05				
SB7, 24.5-25'	05-A78256	5/26/05				
SB8, 5-5.5'	05-A78257	5/26/05				
SB8, 17.5-18'	05-A78258	5/26/05				
SB8, 21.5-22'	05-A78259	5/26/05				
SB8, 24.5-25'	05-A78260	5/26/05				



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Sample Identification _____ Lab Number _____

Page 2 Collection Date

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Limit a. Suffail

Report Date: 6/8/05

Johnny A. Mitchell, Laboratory Director Michael H. Dunn, M.S., Technical Director Pamela A. Langford, Senior Project Manager Eric S. Smith, QA/QC Director Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager Glenn L. Norton, Technical Services Kelly S. Comstock, Technical Services Roxanne L. Connor, Senior Project Manage Mark Hollingsworth, Director of Project

Laboratory Certification Number: 01168CA

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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78246 Sample ID: SB5, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 9:31 Date Received: 5/28/05

Time Received: 7:40

GENERAL CHEMISTRY PARAMETERS								
% Dry Weight 78.8	8		1.0	6/ 7/05	8:39	K. Turner	CTb	484
ORGANIC PARAMETERS								
**Benzene ND	mg/kg	0.0010	1.0	6/ 6/05		H. Wagner	8021B	828
**Ethylbenzene ND	mg/kg	0.0050	1.0	6/ 6/05		H. Wagner	8021B	828
**Toluene ND	mg/kg	0.0050	1.0	6/ 6/05	18:51	H. Wagner	8021B	829
**Xylenes, total ND	mg/kg	0.0050	1.0	6/ 6/05	18:51	H. Wagner	8021B	828
**TPH (Gasoline Range) ND	mg/kg	4.98	1.0	6/ 6/05	18:51	H. Wagner	8015B	828
**TPH (Diesel Range) ND	mg/kg	10.1	1.0	6/ 4/05	11:19	B. Yanna	8015B	564
VOLATILE ORGANICS								
**Methyl-t-butyl ether ND	mg/kg	0.0020	1.0	6/ 7/05	6:15	J. Adams	8260B	820

Sample Extraction Data

EPH/DRO 24.7 gm 1.0 ml 6/ 2/05 K. Turner 3550 Volatile Organics 5.05 g 5.0 ml 6/ 3/05 15:34 N. Noman 5035 BTX Prep 5.02 g 5.0 ml 6/ 3/05 15:40 H. Wagner 5035	Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
toldelle organico otto g otto kila o			'				
	Volatile Organio						

Target Range Surrogate % Recovery _____ _____

UST surr-Trifluorotoluene

103.



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ANALYTICAL REPORT

Laboratory Number: 05-A78246

Sample ID: SB5, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	35 135.
VOA Surr, 1,2-DCAd4	93.	72 125.
VOA Surr Toluene-d8	108.	80 124.
VOA Surr, 4-BFB	103.	25 185.
VOA Surr, DBFM	88.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78247 Sample ID: SB5, 17.5-18'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 10:08 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	95.6	¥		1.0	6/ 7/05	8:39	K. Turner	CLP	4847
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	19:23	H. Wagner	8021B	8286
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	19:23	H. Wagner	8021B	8286
**Toluene	ND	mg/kg	0,0050	1.0	6/ 6/05	19:23	H. Wagner	8021B	8286
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	19:23	H. Wagner	8021B	8286
**TPH (Gasoline Range)	ND	mg/kg	4.97	1.0	6/ 6/05	19:23	H. Wagner	8015B	8286
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 4/05	11:38	B. Yanna	8015B	5647
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	6:34	J. Adams	8260B	8209

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 g	ym 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 4.99 g	j 5.0 ml	6/ 3/05	15:48	N. Noman	5035
BTX Prep	5.03 g	5.0 ml	6/ 3/05	15:51	H. Wagner	5035
					_	

UST surr-Trifluorotoluene

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ANALYTICAL REPORT

Laboratory Number: 05-A78247

Sample ID: SB5, 17.5-18'

Project: Page 2

Surrogate	% Recovery	Target Range
•		
TPH Hi Surr., o-Terphenyl	79.	35 135.
VOA Surr, 1,2-DCAd4	93.	72 125.
VOA Surr Toluene-d8	103.	80 124.
VOA Surr, 4-BFB	96.	25 185.
VOA Surr. DREM	86.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78248 Sample ID: SB5, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 10:46 Date Received: 5/28/05 Time Received: 7:40

Dil Analysis Analysis Report Date Time Analyst Method Batch Limit Factor Result Units Analyte *GENERAL CHEMISTRY PARAMETERS* 4847 1.0 6/ 7/05 8:39 K. Turner CLP % Dry Weight 80.8 *ORGANIC PARAMETERS* 8286 6/ 6/05 19:54 H. Wagner 80218 1.0 mg/kg 0.0010 **Benzene 6/ 6/05 19:54 H. Wagner 8021B 8286 0.0050 1.0 **Ethylbenzene ND mg/kg 8286 6/ 6/05 19:54 H. Wagner 8021B 1.0 ND mg/kg 0.0050 **Toluene 8286 0.0050 1.0 6/ 6/05 19:54 H. Wagner 8021B ND **Xylenes, total mg/kg 8286 6/ 6/05 19:54 H. Wagner 8015B 4.99 1.0 ND mg/kg **TPH (Gasoline Range) 5647 6/ 4/05 11:57 B. Yanna 10.1 1.0 **TPH (Diesel Range) 10.6 mg/kg *VOLATILE ORGANICS* 8209 6/ 7/05 6:54 J. Adams 8260B 0.0020 1.0 **Methyl-t-butyl ether ND mg/kg

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO Volatile Organic BTX Prep	24.7 gm s 5.02 g 5.01 g	1.0 ml 5.0 ml 5.0 ml	6/ 2/05 6/ 3/05 6/ 3/05	15:53 15:57	K. TurnerN. NomanH. Wagner	3550 5035 5035

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ANALYTICAL REPORT

Laboratory Number: 05-A78248

Sample ID: SB5, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	79.	35 135.
VOA Surr, 1,2-DCAd4	97.	72, - 125.
VOA Surr Toluene-d8	106.	80 124.
VOA Surr, 4-BFB	96.	25 185.
VOA Surr, DBFM	88.	73. ~ 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523 Lab Number: 05-A78249 Sample ID: SB6, 5-5.5' Sample Type: Soil Site ID: 7-4121

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Date Collected: 5/26/05 Time Collected: 11:10 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time		Method	Batcl
GENERAL CHEMISTRY PARAME	TERS								
% Dry Weight	93.6	*		1.0	6/ 7/05	8:39	K. Turner	CLP	484
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	10:46	H. Wagner	8021B	903:
**Ethylbenzene	ИD	mg/kg	0.0050	1.0	6/ 7/05	10:46	H. Wagner	8021B	903:
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	10:46	H. Wagner	8021B	903
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	10:46	H. Wagner	8021B	903:
**TPH (Gasoline Range)	ND .	mg/kg	5.03	1.0	6/ 7/05	10:46	H. Wagner	8015B	903:
**TPH (Diesel Range)	10.2	mg/kg	10.1	1.0	6/ 4/05	12:15	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	7:14	J. Adams	8260B	820
Silica Gel Cleanup performe	d for TPH-DRO	analysis.							
Sample Extraction Data				- *					
Wt/Vol									
	d Extract Vo		Time	Analyst	Method				
EPH/DRO 24.7	gm 1.0 ml	61 2/05		K. Turner	3550				

H. Wagner

Surrogate & Recovery Target Range

4.97 g 5.0 ml 6/3/05 16:05

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BTX Prep



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ANALYTICAL REPORT

Laboratory Number: 05-A78249 Sample ID: SB6, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Rangè
TPH Hi Surr., o-Terphenyl	79.	35 135 <i>.</i>
VOA Surr, 1,2-DCAd4	95.	72 125.
VOA Surr Toluene-d8	105.	80 124.
VOA Surr, 4-BFB	100.	25 185.
VOA Surr. DBFM	. 88.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78250 Sample ID: SB6, 19.5-20'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 11:51 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMET	rers								
% Dry Weight	83.5	%		1.0	6/ 7/05	9:00	K. Turner	CLP	484
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	20:58	H. Wagner	8021B	828
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	20:58	H. Wagner	8021B	828
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	20:58	H. Wagner	8021B	828
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	20:58	H. Wagner	8021B	828
**TPH (Gasoline Range)	ND	mg/kg	5.03	1.0	6/ 6/05	20:58	H. Wagner	8015B	828
**TPH (Diesel Range)	ND	mg/kg	10.1	1.0	6/ 4/05	12:34	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	7:33	J. Adams	8260B	820

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.8	gm 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 4.98 g	g 5.0 ml	6/ 3/05	16:09	N. Noman	5035
BTX Prep	4.97	5.0 ml	6/ 3/05	16:11	H. Wagner	5035

% Recovery Target Range Surrogate ----------

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ANALYTICAL REPORT

Laboratory Number: 05-A78250

Sample ID: SB6, 19.5-20'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	35 135.
VOA Surr, 1,2-DCAd4	98.	72 125.
VOA Surr Toluene-d8	101.	80 124.
VOA Surr, 4-BFB	93.	25 185.
VOA Surr, DSFM	89.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78251 Sample ID: SB6, 21.5-22'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 12:09 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	86.3	*		1.0	6/ 7/05	9:00	K. Turner	CLP	4848
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	21:30	H. Wagner	8021B	8286
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	21:30	H. Wagner	8021B	8286
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	21:30	H. Wagner	8021B	8286
**Xylenes, total	ND	. mg/kg	0.0050	1.0	6/ 6/05	21:30	H. Wagner	8021B	8286
**TPH (Gasoline Range)	ND	mg/kg	4.96	1.0	6/ 6/05	21:30	H. Wagner	8015B	8286
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 4/05	12:53	B. Yanna	8015B	5647
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	7:53	J. Adams	8260B	8209

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Tíme	Analyst	Method
EPH/DRO Volatile Organic BTX Prep	25.0 g s 4.95 g 5.04 g	5.0 ml	6/ 2/05 6/ 4/05 6/ 4/05	9:40 9:41	K. TurnerN. NomanH. Wagner	3550 5035 5035

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ANALYTICAL REPORT

Laboratory Number: 05-A78251

Sample ID: SB6, 21.5-22'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	80.	35 135.
VOA Surr, 1,2-DCAd4	95.	72 125.
VOA Surr Toluene-d8	101.	80 124.
VOA Surr, 4-BFB	95.	25 185.
VOA Surr, DBFM	87.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Sample ID: SB6, 24.5-25' Sample Type: Soil Site ID: 7-4121

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Date Collected: 5/26/05 Time Collected: 12:38 Date Received: 5/28/05 Time Received: 7:40

Lab Number: 05-A78252

				Report	Dil	Analysis			Method	Batc
nalyte 		Result	Units	Limit	Factor	Date +	Time	Analyst	Method	
GENERAL CHEMISTRY 1	PARAMETERS	3 <i></i>								
% Dry Weight	8	33.3	8		1.0	6/ 7/05	9:00	K. Turner	CLP	484
*ORGANIC PARAMETERS										
**Benzene		ND	mg/kg	0.0010	1.0	6/ 6/05	22:02			828
**Ethylbenzene		ND	mg/kg	0.0050	1.0	6/ 6/05	22:02	H. Wagner	8021B	828
**Toluene		ND	mg/kg	0.0050	1.0	6/ 6/05	22:02	H. Wagner	8021B	828
**Xylenes, total		ND	mg/kg	0.0050	1.0	6/ 6/05	22:02	H. Wagner	9021B	828
**TPH (Gasoline Range))	ND	mg/kg	4.98	1.0	6/ 6/05	22:02	H. Wagner	8015B	828
**TPH (Diesel Range)		ND	mg/kg	10.0	1.0	6/ 4/05	13:12	B. Yanna	8015B	564
VOLATILE ORGANICS										
**Methyl-t-butyl ethe	r	ND	mg/kg	0.0020	1.0	6/ 7/05	8:13	J. Adams	8260B	820
Silica Gel Cleanup pe	rformed f	or TPH-DRO a	analysis.							
Sample Extraction Dat										
M	t/Vol									
	tracted	Extract Vol	Date	Time	Analyst	Method				
EPH/DRO	24 9 ~m	1.0 ml	6/ 2/05		K. Turner	3550				
	4.98 q		6/ 4/05	9:44	N, Noman	5035				
BTX Prep	5.02 g		6/ 4/05		H. Wagner					

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UST surr-Trifluorotoluene



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ANALYTICAL REPORT

Laboratory Number: 05-A78252

Sample ID: SB6, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	35 135.
VOA Surr, 1,2-DCAd4	97.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	96.	25 185.
VOA Surr, DBFM	85.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78253 Sample ID: SB7, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 13:02 Date Received: 5/28/05 Time Received: 7:40

Analysis Analysis Report Date Time Analyst Method Batch Limit Factor Analyte Result Units _____ -----*GENERAL CHEMISTRY PARAMETERS* 4848 1.0 6/ 7/05 9:00 K. Turner CLP % Dry Weight 86.5 *ORGANIC PARAMETERS* 6/ 6/05 22:34 H. Wagner 8021B 8286 ND mg/kg 0.0010 1.0 **Benzene 8286 6/ 6/05 22:34 H. Wagner 8021B 0.0050 1.0 **Ethylbenzene mg/kg 8286 0.0050 1.0 6/ 6/05 22:34 H. Wagner 8021B **Toluene ND mg/kg 8286 0.0050 1.0 6/ 6/05 22:34 H. Wagner 8021B **Xylenes, total ND mg/kg 6/ 6/05 22:34 H. Wagner 8015B 8286 5.02 1.0 **TPH (Gasoline Range) ND mg/kg 5647 6/ 4/05 13:31 B. Yanna 8015B 10.2 1.0 **TPH (Diesel Range) ND mg/kg *VOLATILE ORGANICS* R209 6/ 7/05 8:32 J. Adams 8260B 0.0020 1.0 **Methyl-t-butyl ether ND mg/kg Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.6 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.04 g	5.0 ml	6/ 4/05	9:48	N. Noman	5035
BTX Prep	4.98 g	5.0 ml	6/ 4/05	9:50	H. Wagner	5035

Surrogate % Recovery Target Range

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ANALYTICAL REPORT

Laboratory Number: 05-A78253

Sample ID: SB7, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range		
TPH Hi Surr., o-Terphenyl	80.	35 135.		
VOA Surr, 1,2-DCAd4	97.	72 125.		
VOA Surr Toluene-d8	99.	80 124.		
VOA Surr, 4-BFB	100.	25 185.		
VOA Surr, DBFM	89.	73 124.		

LABORATORY COMMENTS:

 ${\tt ND}$ = Not detected at the report limit.

B = Analyte was detected in the method blank.

J =Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

 $\star\star$ = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78254 Sample ID: SB7, 18-18.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 14:06 Date Received: 5/28/05 Time Received: 7:40

Analyce		Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
GENERAL CHEMIS	STRY PARAMETE	RS								
% Dry Weight		83.4	용		1.0	6/ 7/05	9:00	K. Turner	Crb	484
ORGANIC PARAME	ETERS									
**Benzene		ND	mg/kg	0.0010	1.0	6/ 6/05	23:05	H. Wagner	8021B	828
**Ethylbenzene		ND	mg/kg	0.0050	1.0	6/ 6/05	23:05	H. Wagner	8021B	828
**Toluene		ND	mg/kg	0.0050	1.0	6/ 6/05	23:05	H. Wagner	8021B	828
**Xylenes, total		ND	mg/kg	0.0050	1.0	6/ 6/05	23:05	H. Wagner	8021B	828
**TPH (Gasoline F	Range)	ND	mg/kg	5.00	1.0	6/ 6/05	23:05	H. Wagner	0015B	828
**TPH (Diesel Ran	ige)	ND	mg/kg	10.0	1.0	6/ 4/05	14:28	B. Yanna	8015B	564
VOLATILE ORGAN	NICS									
**Methyl-t-butyl	ether	ND	mg/kg	0.0020	1.0	6/ 7/05	8:52	J. Adams	8260B	820
Silica Gel Cleanu	up performed	for TPH-DRO	analysis.							
Sample Extraction	n Data									
	Wt/Vol									
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method				
EPH/DRO		m 10m1			K. Turner	3550				

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 g	µm 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 4.96 g	5.0 ml	6/ 4/05	9:55	N. Noman	5035
BTX Prep	5.00 g	5.0 ml	6/ 4/05	9:58	H. Wagner	5035

Surrogate & Recovery Target Range

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ANALYTICAL REPORT

Laboratory Number: 05-A78254 Sample ID: SB7, 18-18.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	84.	35 135.
VOA Surr, 1,2-DCAd4	96.	72 125.
VOA Surr Toluene-d8	105.	80 124.
VOA Surr, 4-BFB	96.	25 185.
VOA Surr, DBFM	88.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78255 Sample ID: SB7, 22.5-23'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 14:25 Date Received: 5/28/05 Time Received: 7:40

Analyte		Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
+										
GENERAL CHEMISTRY	PARAMETER	RS								
% Dry Weight		83.6	&		1.0	6/ 7/05	9:00	K. Turner	CLP	484
ORGANIC PARAMETER:	s									
**Benzene		ND	mg/kg	0.0010	1.0	-,	23:37	H. Wagner		828
**Ethylbenzene		ND	mg/kg	0.0050	1.0	6/ 6/05		H. Wagner		828
**Toluene		ND	mg/kg	0.0050	1.0	6/ 6/05	23:37	H. Wagner		828
**Xylenes, total		ND	mg/kg	0.0050	1.0	6/ 6/05		H. Wagner		828
**TPH (Gasoline Range	e)	ND	mg/kg	4.96	1.0	6/ 6/05	23:37	H. Wagner		828
**TPH (Diesel Range)		ИD	mg/kg	10.0	1.0	6/ 4/05	14:47	B. Yanna	8015B	564
*VOLATILE ORGANICS	*									
**Methyl-t-butyl eth	er	ИD	mg/kg	0.0020	1.0	6/ 7/05	9:12	J. Adams	8260B	820
Silica Gel Cleanup p	erformed :	for TPH-DRO	analysis.							
STITES GET Cresumb b.										
silica dei Cieanub b			,							
	ta									
Sample Extraction Da	ta Wt/Vol						-			
Sample Extraction Da	Wt/Vol	Extract Vol	Date	Time	Analyst	Method				
Sample Extraction Da Parameter E	Wt/Vol xtracted			Time						
Sample Extraction Da	Wt/Vol xtracted	m 1.0 ml	Date 6/ 2/05 6/ 4/05		Analyst K. Turner N. Noman					

Target Range Surrogate -----_____

UST surr-Trifluorotoluene

98.



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ANALYTICAL REPORT

Laboratory Number: 05-A78255

Sample ID: SB7, 22.5-23'

Project: Page 2

Surrogate	% Recovery	Target Range		
TPH Hi Surr., o-Terphenyl	84.	35 135.		
VOA Surr, 1,2-DCAd4	91.	72 125.		
VOA Surr Toluene-d8	102.	80 124.		
VOA Surr, 4-BFB	98.	25 185.		
VOA Surr, DBFM	86.	73 124.		

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

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Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78256 Sample ID: SB7, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 14:32 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	91.1	*		1.0	6/ 7/05	9:00	K. Turner	CLB	4841
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	0:09	H. Wagner	8021B	828
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:09	H. Wagner	8021B	828
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:09	H. Wagner	8021B	828
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	0:09	H. Wagner	8021B	828
**TPH (Gasoline Range)	ND	mg/kg	5.02	1.0	6/ 7/05	0:09	H. Wagner	8015B	828
**TPH (Diesel Range)	ND	mg/kg	10.2	1.0	6/ 4/05	15:06	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	9:31	J. Adams	8260B	820
Silica Gel Cleanup perform	ed for TPH-DRO	analysis.							

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.5 g	m 1.0 ml	6/ 2/05		K, Turner	3550
Volatile Organic	a 5,03 g	5.0 ml	6/ 4/05	10:05	N. Noman	5035
BTX Prep	4.98 g	5.0 ml	6/ 4/02	10:06	H. Wagner	5035

Surrogate % Recovery Target Range

UST surr-Trifluorotoluene

101.



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ANALYTICAL REPORT

Laboratory Number: 05-A78256

Sample ID: SB7, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range		
TPH Hi Surr., o-Terphenyl	75.	35 135.		
VOA Surr, 1,2-DCAd4	95.	72 125.		
VQA Surr Toluene-d8	102.	80 124.		
VOA Surr, 4-BFB	96.	25 185.		
VOA Surr. DBFM	86.	73 124.		

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78257 Sample ID: SB8, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 14:49 Date Received: 5/28/05 Time Received: 7:40

			Report	Dil	Analysis	Analysis	3		
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch
+			*						
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	77.1	8		1.0	6/ 7/05	9:00	K. Turner	CLÞ	4846
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	0:40	H. Wagner	9021B	8286
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:40	H. Wagner	8021B	8286
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:40	H. Wagner	80218	8286
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	0:40	H. Wagner	80218	8286
**TPH (Gasoline Range)	ND	mg/kg	4.97	1.0	6/ 7/05	0:40	H. Wagner	8015B	8286
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 4/05	15:25	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	9:51	J. Adams	8260B	8209

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.04 g	5.0 ml	6/ 4/05	10:11	N. Noman	5035
BTX Prep	5.03 g	5.0 ml	6/ 4/05	10:15	H. Wagner	5035

Surrogate % Recovery Target Range -----

UST surr-Trifluorotoluene

100.



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ANALYTICAL REPORT

Laboratory Number: 05-A78257

Sample ID: SB8, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
mm (1) 0 1	01	26 - 126
TPH Hi Surr., o-Terphenyl	81.	35 135.
VOA Surr, 1,2-DCAd4	95.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	95.	25 185.
VOA Surr DREM	96	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall

2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78258 Sample ID: SB8, 17.5-18'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 15:24

Date Received: 5/28/05 Time Received: 7:40

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	84.3	§ .		1.0	6/ 7/05	9:00	K. Turner	CLP	4848
ORGANIC PARAMETERS									
**Benzene	0.0010	J mg/kg	0.0010	1.0	6/ 7/05	1:12	H. Wagner	8021B	8286
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	1:12	H. Wagner	8021B	8286
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	1:12	H. Wagner	8021B	8286
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	1:12	H. Wagner	8021B	8286
**TPH (Gasoline Range)	ИD	mg/kg	4.96	1.0	6/ 7/05	1:12	H. Wagner	8015B	8286
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 4/05	15:45	B. Yanna	8015B	5647
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ИD	mg/kg	0.0020	1.0	6/ 7/05	10:11	J. Adams	8260B	8209
Silica Gel Cleanup perform	ed for TPH-DR	RO analysis.							
Sample Extraction Data									

	Wt/Vol					
Parameter	Extracted E.	xtract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 4.98 g	5.0 ml	6/ 4/05	10:18	N. Noman	5035
BTX Prep	5.04 g	5.0 ml	5/16/05	10:20	H. Wagner	5035

% Recovery Target Range Surrogate ***---------

UST surr-Trifluorotoluene

104.



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ANALYTICAL REPORT

Laboratory Number: 05-A78258

Sample ID: SB8, 17.5-18'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	86.	35 135.
VOA Surr, 1,2-DCAd4	97.	72 125.
VOA Surr Toluene-d8	100.	80 124.
VOA Surr, 4-BFB	97.	25 185.
VOA Surr, DBFM	87.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78259 Sample ID: SB8, 21.5-22'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 15:42 Date Received: 5/28/05 Time Received: 7:40

Analyte	Result Unit	Units	Report Units Limit	Dil Factor	Analysis Date	_	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	82.8	8		1.0	6/ 7/05	9:00	K. Turner	CLP	484
ORGANIC PARAMETERS									
**Benzene	0.0307	mg/kg	0.0010	1.0	6/ 7/05	1:44	H. Wagner	8021B	828
**Ethylbenzene	0.0120	mg/kg	0.0050	1.0	6/ 7/05	1:44	H. Wagner	8021B	828
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	1:44	H. Wagner	8021B	828
**Xylenes, total	0.0205	mg/kg	0.0050	1.0	6/ 7/05	1:44	H. Wagner	8021B	828
**TPH (Gasoline Range)	11.2	mg/kg	4.96	1.0	6/ 7/05	1:44	H. Wagner	8015B	828
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 4/05	16:04	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 7/05	10:30	J. Adams	8260B	820
Silica Gel Cleanup perform	ed for TPH-DRO	analysis.							

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organio	s 5.02 g	5.0 ml	6/ 4/05	10:24	N. Noman	5035
BTX Prep	5.04 g	5.0 ml	6/ 4/05	10:26	H. Wagner	5035
					_	

Surrogate % Recovery Target Range -----

UST surr-Trifluorotoluene

62.



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ANALYTICAL REPORT

Laboratory Number: 05-A78259 Sample ID: SB8, 21.5-22'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	83.	35 135.
VOA Surr, 1,2-DCAd4	101.	72 125.
VOA Surr Toluene-d8	107.	80 124.
VOA Surr, 4-BFB	102.	25 185.
VOA Surr, DBFM	90.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78260 Sample ID: SB8, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/26/05 Time Collected: 15:49 Date Received: 5/28/05 7:40 Time Received:

Analysis Analysis Report Date Time Analyst Method Batch Factor Result Units Limit Analyte _____ -----_____ _____ *GENERAL CHEMISTRY PARAMETERS* 4848 1.0 6/ 7/05 9:00 K. Turner CLP % Dry Weight 88.6 *ORGANIC PARAMETERS* 8286 6/ 7/05 2:15 H. Wagner 8021B 0.0414 mg/kg 0.0010 1.0 **Benzene 6/ 7/05 2:15 H. Wagner 8021B 8286 0.0050 1.0 **Ethylbenzene 0.0184 mg/kg 8286 1.0 6/ 7/05 2:15 H. Wagner 8021B 0.0153 0.0050 **Toluene mg/kg 8286 0.0050 1.0 6/ 7/05 2:15 H. Wagner 8021B 0.0197 mg/kg **Xylenes, total 6/ 7/05 2:15 H. Wagner 8015B 8286 1.0 4.98 **TPH (Gasoline Range) 10.2 mg/kg 5647 6/ 4/05 16:23 B. Yanna 8015B 1.0 **TPH (Diesel Range) ND mg/kg 10.0 *VOLATILE ORGANICS* 8209 6/ 7/05 10:50 J. Adams 8260B 0.0020 1.0 **Methyl-t-butyl ether ND mg/kg Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
					_+	
EPH/DRO	24.9 gr	n 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.05 g	5.0 ml	6/ 4/05	10:45	N. Noman	5035
BTX Prep	5.02 g	5.0 ml	6/ 4/05	10:26	H. Wagner	5035

% Recovery Target Range Surrogate -----______

UST surr-Trifluorotoluene

92.



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ANALYTICAL REPORT

Laboratory Number: 05-A78260

Sample ID: SB8, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	83.	35 135.
VOA Surr, 1,2-DCAd4	99.	72 125.
VOA Surr Toluene-d8	106.	80 124.
VOA Surr, 4-BFB	99.	25 185.
VOA Surr, DBFM	92.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 1

Laboratory Receipt Date: 6/ 1/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/kg	0.0416	0.0523	0.0500	21	16 158.	8286	178260
Toluene	mg/kg	0.0154	0.0472	0.0500	64	10 152.	8286	78260
Ethylbenzene	mg/kg	0.0185	0.0398	0.0500	43	10 160.	8286	78260
Xylenes, total	mg/kg	0.0198	0.0761	0.100	56	10 153.	8286	'78260
TPH (Gasoline Range)	mg/kg	< 0.10	9.49	10.0	95	52 150.	8286	blank
TPH (Diesel Range)	mg/kg	3.94	34.4	40.0	76	28 143.	5647	05-A78252
VOA Surr, 1,2-DCAd4	% Rec				97	72 - 125	8209	
VOA Surr Toluene-d8	% Rec				99	80 - 124	8209	
VOA Surr, 4-BFB	% Rec				99	25 - 185	8209	
VOA Surr, DBFM	% Rec				90	73 - 124	8209	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0523	0.0638	19.81	53.	8286
Toluene	mg/kg	0.0472	0.0466	1.28	62.	8286
Ethylbenzene	ing/kg	0.0398	0.0448	11.82	63.	8286
Xylenes, total	mg/kg	0.0761	0.0878	14.28	69.	8286
TPH (Gasoline Range)	mg/kg	9.49	8.89	6.53	39.	8286
TPH (Diesel Range)	mg/kg	34.4	34.0	1.17	51.	5647
VOA Surr, 1,2-DCAd4	% Rec		95.			8209
VOA Surr Toluene-d8	% Rec		101.			8209
VOA Surr, 4-BFB	% Rec		104.			8209
VOA Surr, DBFM	% Rec		88.			8209



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PROJECT QUALITY CONTROL DATA

Project Number: Project Name: EXXONMOBIL 7-4121

Page: 2

Laboratory Receipt Date: 6/ 1/05

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.0896	90	72 - 124	8286
Benzene	mg/kg	0.100	0.105	105	72 - 124	9032
Toluene	mg/kg	0.100	0.0911	91	49 - 152	8286
Toluene	mg/kg	0.100	0.102	102	49 - 152	9032
Ethylbenzene	mg/kg	0.100	0.0947	9 5	72 - 126	8286
Ethylbenzene	mg/kg	0.100	0.112	112	72 - 126	9032
Xylenes, total	mg/kg	0.200	0.175	80	75 - 122	8286
Xylenes, total	mg/kg	0.200	0.214	107	75 - 122	9032
TPH (Gasoline Range)	mg/kg	10.0	9.49	95	74 - 127	8286
TPH (Gasoline Range)	mg/kg	10.0	7.77	78	74 - 127	9032
TPH (Diesel Range)	mg/kg	40.0	38.6	96	54 - 126	5647
VOA PARAMETERS						
Methyl-t-butyl ether	mg/kg	0.0500	0.0502	100	67 - 138	8209
VOA Surr, 1,2-DCAd4	% Rec			94	72 - 125	8209
VOA Surr Toluene-d8	% Rec			102	80 - 124	8209
VOA Surr, 4-8FB	% Rec			97	25 - 185	8209
VOA Surr, DBFM	% Rec			87	73 - 124	8209
-						

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 3

Laboratory Receipt Date: 6/ 1/05

Blank Data

Analyte					a Analysis Time
Benzene	< 0.0009	mq/kq		6/ 6/05	
		-		6/ 7/05	
Benzene	< 0.0009				
Benzene	< 0.0009	mg/kg		6/ 7/05	
Toluene	0.0005	mg/kg		6/ 6/05	
Toluene	0.0007	mg/kg	9032	6/ 7/05	
Toluene	0.0004	mg/kg	9032	6/ 7/05	9:13
Ethylbenzene	< 0.0005	mg/kg	8286	6/ 6/05	18:19
Ethylbenzene	< 0.0005	mg/kg	9032	6/ 7/05	8:54
Ethylbenzene	< 0.0005	mg/kg	9032	6/ 7/05	9:13
Xylenes, total	< 0.0010	mg/kg	8286	6/ 6/05	18:19
Xylenes, total	< 0.0010	mg/kg	9032	6/ 7/05	8:54
Xylenes, total	< 0.0010	mg/kg	9032	6/ 7/05	9:13
TPH (Gasoline Range)	< 0.52	mg/kg	8286	6/ 6/05	18:19
TPH (Gasoline Range)	< 0.52	mg/kg	9032	6/ 7/05	8:54
TPH (Gasoline Range)	< 0.52	mg/kg	9032	6/ 7/05	9:13
TPH (Diesel Range)	< 0.10	mg/kg	5647	6/ 4/05	10:04
UST surr-Trifluorotoluene	102.	& Recovery	8286	6/ 6/05	18:19
UST surr-Trifluorotoluene	105.	% Recovery	9032	6/ 7/05	8:54
UST surr-Trifluorotoluene	104.	% Recovery	9032	6/ 7/05	9:13
VOA PARAMETERS					
Methyl-t-butyl ether	< 0.0009	mg/kg	8209	6/ 7/05	2:00
VOA Surr, 1,2-DCAd4	101.	% Rec	8209	6/ 7/05	2:00
VOA Surr Toluene-d8	102.	% Rec	8209	6/ 7/05	2:00
VOA Surr, 4-BFB	96.	% Rec	8209	6/ 7/05	2:00
VOA Surr, DBFM	89.	% Rec	8209	6/ 7/05	2:00

^{# =} Value outside Laboratory historical or method prescribed QC limits.

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ExonMobil.

Consultant Name: I		Hasilville, 114 ERING	3120	→						a A	. •	10-		-57	-			Re	por	t To): S	he	rris	Pra	all							
-	2285 MORELL															-	_				_					hek	(Ex	xon	Mob	il P	M)	
City/State/Zip:								_									_				_		36							_		
ExxonMobil Project Mgr: ('O i												_
Telephone Number: ((925) 602-471	0, ext 20				Fax	No	.: <u>(</u>	925) 60)2-4	720)				_	Fac	ility	ID	# 7	'-4 1	121									
Sampler Name: (Print)	וין ממריין	YOULAA-															_ _s	lte .	Add	Ires	is _1	06	05	Foo	othi	B	oule	var	<u>d</u>			
Sampler Signature:	e hand																Cli	ly, S	Stat	e Zi	ip (Dak	lan	d, (CA							
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Relinquished by:	D	ate	Time Received by: Da Time Received by TestAmerica: Da 5729													-	ح		lme 40													

CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division

2960 Foster Creighton Nashville, TN 37204

Toll Free: 800-765-0980 Fax: 615-726-3404

ExonMobil.

Consultant Name:	ETIC ENGINE	RING	. 01 21	,,					_									Re	poi	rt T	o: _{	Shei	rris	Pra	11							_
,	2285 MORELL																	Inv	oic	e T	o: .	lenn	ifer	Sed	lact	nek ((Exx	οnMe	bil	PM)	}	_
City/State/Zip:																		Ac	COL	unt	#: _	102	36									_
ExxonMobil Project Mgr:																			ı	PO	#:_			<u></u>								_
Telephone Number:	(925) 602-471	0, ext 20				Fa	k No	و.: ر	(92	5) 6	02-	472	0.		_			Fac	ility	y ID	#_	7-41	21									_
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Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	629	HNO ₃ (Red Label)	HCl (Blue Label)		H ₂ SO, Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Laber)	None (Black Label)	Omer (specus)	Wastewater	Drinking Water	Sludge	Soil	I.	TPH-g/BTEX by 8015/8021	TPH-d by 8015	MTBE by 8260						1015	RUSH TAT (Pre-Schedule	틸	STD TAT	Fax Results
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Consultant Name: ETIC ENGINEERING

CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division

2960 Foster Creighton Nashville, TN 37204

Toll Free: 800-765-0980 Fax: 615-726-3404 417975

Report To: Sherris Prall

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Address:	2285 MORELL	O AVENUE													_				-			Se	dlac	hek	(Ex	xon	Mobi	<u>il Pl</u>	M)_	
City/State/Zip:	PLEASANT H	LL, CA. 94523	3												_	Ac	COL	ınt	#:_	102	<u> 36</u>									
ExxonMobil Project Mgr:	Sherris Pral																ı	PO	#: _											
Telephone Number:	(925) 602-471	0, ext 20			Fa	x No	o.: <u>(</u>	925	602	2-47	20				_	Fac	ility	y ID	#_	7-4	121									
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COOLER RECEIPT FORM

BC#



Cooler Received/Opened On: 5/28/05 Accessioned By: James D. Jacobs
Cooker Received Opened On. 3/20/05 Precessioned By. Guards By Guards
(Agril =
Log-in Personnel Signature
1. Temperature of Cooler when triaged: Degrees Celsius
2. Were custody seals on outside of cooler?
a. If yes, how many and where:
3. Were custody seals on containers?
4. Were the seals intact, signed, and dated correctly?
5. Were custody papers inside cooler?
6. Were custody papers properly filled out (ink, signed, etc)?
7. Did you sign the custody papers in the appropriate place?
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Ziplock baggies) Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?
11. Were all container labels complete (#, date, signed, pres., etc)?
12. Did all container labels and tags agree with custody papers?
13. Were correct containers used for the analysis requested?
14. a. Were VOA vials received?
b. Was there any observable head space present in any VOA vial?
15. Was sufficient amount of sample sent in each container?
16. Were correct preservatives used?
If not, record standard ID of preservative used here
17. Was residual chlorine present?
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
2302, 2265
Fed-Ex UPS Velocity DHL Route Off-street Misc.
·

417975

6/1/2005

Sample NonConformance/COC Revision Form

Not tagged

Not tagged

Paul Buckingham

280

initiated by: Client Name: **Bwright**

ETIC ENGINEERI

SHERRIS PRAL

Client Account: 10236

Date Created:

Project Name:

Project Number: Project Origin

Client Contact:

5/28/2005

CA

EXXONMOBIL 7-4121

Terminal Manager:

Sample Range:

Phone:

SDG:

Analyst:

NC Type:

Supervisor:

NC Analytical 1

JENNIFER SEDLACHEK

Regulatory:

NC #:

Process: COC is unclear - please clarify...

Action: No

Corrected By:

leah klingensmith

Closed: 🗹

Iklingensmith

 \mathbf{Z}

NC Closed

Date Closed

Comments:

Comment added by: Bwright on 6/1/2005 1:37:50 PM

Comment added by: Iklingensmith on 6/1/2005 10:23:20 AM

Client has sent revised COC. COC in bin. From: Sherris Prail [mailto:SPrail@eticeng.com] Sent: Tuesday, May 31, 2005 4:11 PM To: Leah Klingensmith Subject: Account 10236, soil sample COC

Leah,

Attached is the revised Chain of Custody for soil samples that you received on Saturday for Facility ID 7-4121. Please remove the HOLD on these soil samples and analyze as marked on the COC. We are requesting a 5-day TAT. We will be mailing the rest of the soil and groundwater samples today for this sampling event. Please call or e-mail me if you

have any questions. Thanks!

Do they want to hold all samples. Not sure what to run nothing is marked.

N c [#] 28650 417975 ExonMobil

Test/America

CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division

2960 Foster Creighton

Toll Free: 800-765-0980

		Nashville, Ti	N 372	U4						гa	X	0.10	-12	D-3	404	ŧ	-			-				Wa () red								
Consultant Name:		85 MORELLO AVENUE															•				_			Prell	_		<u>—</u>		4 - L			—	
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City/State/Zip:	PLEASANT H	LL, CA. 94523	<u> </u>									_						. '	Acc				02:	30_	—				—			—	
ExxonMobil Project Mgr:																		• _			0#	_								—	_		
Telephone Number:	(925) 602-47 ⁻	10, ext 20				Fa	k No	o.:_	(92	5) (302	-472	20					-		-		_	-41										
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sample ID / Description	Date Sampled	Time Sampled	No of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃ (Red Lebel)	HC! (Blue Label)	NaOH (Orange Label)	H ₂ SO, Plastic (Yellow Label)	H ₂ SO, Glass(Yeffow Label)	None (Black Labet)	Other (Specify)	Groundwater	Wasiewater	Skidde	Sol	Other (apacify):	TPH-a/BTEX by B015/8021			MTBE by 8260								RUSH IAI (Pre-schedule	IAI request (iii dus, vaya letn TAT	Fax Results
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CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division

2960 Foster Creighton Nashville, TN 37204

Test/America

Toll Free: 800-765-0980 Fax: 615-726-3404 417975

____ ExonMobil

Consultant Name:	ETIC ENG	GINEE	RING																R	epo	ort 1	۲o: ِ	She	rris F	Prall							
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CHAIN OF CUSTODY RECORD on Phone: 615-726-0177 Nashville Division

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Test/America

Tol! Free: 800-765-0980 Fax: 615-726-3404

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ExonMobil.

Consultant Name:	ETIC EN	GINE	ERING															_	Re	por	t To	o: <u>3</u>	ine	rns	Pre	3H							
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6/ 8/05

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 7-4121

Project Number: .

Laboratory Project Number: 417990.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
SB9, 5-5.5'	05-A78357	5/27/05
SB9, 18-18.5	05-A78358	5/27/05
SB9, 19.5-20'	05-A78359	5/27/05
SB9, 24.5-25	05-A78360	5/27/05
SB10, 5-5.5'	05-A78361	5/27/05
SB10, 17.5-18'	05-A78362	5/27/05
SB10, 24.5-25'	05-A78363	5/27/05
SB11, 5-5.5'	05-A78364	5/27/05
SB11, 18.5-19'	05-A78365	5/27/05
SB11, 24.5-25'	05-A78366	5/27/05
SB12, 5-5.5'	05-A78367	5/27/05
SB12, 16.5-17'	05-A78368	5/27/05
SB12, 25.5-26'	05-A78369	5/27/05
SB13, 5-5.5'	05-A78370	5/27/05
SB13, 18.5-19'	05-A78371	5/27/05
SB13, 24.5-25'	05-A78372	5/27/05



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Sample Identification

Lab Number

Page 2 Collection Date

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Roxanie & Conror

Report Approved By:

Report Date: 6/8/05

Johnny A. Mitchell, Laboratory Director Michael H. Dunn, M.S., Technical Director Pamela A. Langford, Senior Project Manager Eric S. Smith, QA/QC Director Sandra McMillin, Technical Services Gail A. Lage, Senior Project Manager Glenn L. Norton, Technical Services Kelly S. Comstock, Technical Services Roxanne L. Connor, Senior Project Manage Mark Hollingsworth, Director of Project

Laboratory Certification Number: 01168CA

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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78357 Sample ID: SB9, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 7:57 Date Received: 6/ 1/05 Time Received: 8:00

Dil Analysis Analysis Report Factor Date Time Analyst Method Batch Result Units Limit Analvte -----*GENERAL CHEMISTRY PARAMETERS* 6/ 7/05 9:14 K. Turner CLP 4850 1.0 % Dry Weight 83.8 *ORGANIC PARAMETERS* 6658 0.0010 6/ 6/05 21:01 H. Wagner 8021B 1.0 **Benzene ND mg/kg 1.0 6/6/05 21:01 H. Wagner 8021B 6658 **Ethylbenzene ND mg/kg 0.0050 1.0 6/6/05 21:01 H. Wagner 8021B 6658 0.0050 **Toluene ND mg/kg 6658 **Xylenes, total ND mg/kg 0.0050 1.0 6/6/05 21:01 H. Wagner 8021B 6658 6/ 6/05 21:01 H. Wagner 8015B **TPH (Gasoline Range) ND 5.02 1.0 mg/kg 6/ 4/05 16:42 B. Yanna 8015B 5647 **TPH (Diesel Range) 9.80 1.0 ND mg/kg *VOLATILE ORGANICS* 6503 6/ 5/05 8:42 J. Bundy 8260B 0.0020 1.0 **Methyl-t-butyl ether ND mg/kg

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.5 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organio	s 5.05 g	5.0 ml	6/ 4/05	13:14	J. Bundy	5035
BTX Prep	4.98 g	5.0 ml	6/ 4/05	13:19	H. Wagner	5035

Surrogate % Recovery Target Range

UST surr-Trifluorotoluene

106.



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ANALYTICAL REPORT

Laboratory Number: 05-A78357

Sample ID: SB9, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	75.	35 135.
VOA Surr, 1,2-DCAd4	109.	72 125.
VOA Surr Toluene-d8	103.	80 124.
VOA Surr, 4-BFB	104.	25 185.
VOA Surr, DBFM	94.	73, - 124.

LABORATORY COMMENTS:

 $\mbox{ND} = \mbox{Not}$ detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78358 Sample ID: SB9, 18-18.5

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 8:32 Date Received: 6/ 1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	84.7	8		1.0	6/ 7/05	9:14	K. Turner	CLP	4850
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	21:20	H. Wagner	8021B	6658
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	21:20	H. Wagner	8021B	6658
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	21:20	H. Wagner	8021B	6658
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	21:20	H. Wagner	8021B	6658
**TPH (Gasoline Range)	ND	mg/kg	5.00	1.0	6/ 6/05	21:20	H. Wagner	8015B	6658
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 4/05	17:02	B. Yanna	8015B	5641
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	9:12	J. Bundy	9260B	6503

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method	
EPH/DRO	24.9 gr	m 1.0 ml	6/ 2/05		K. Turner	3550	
Volatile Organic	s 5.01 g	5.0 ml	6/ 4/05	13:22	J. Bundy	5035	
BTX Prep	5.00 g	5.0 ml	6/.4/05	13:24	H. Wagner	5035	

Surrogate % Recovery Target Range

UST surr-Trifluorotoluene

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ANALYTICAL REPORT

Laboratory Number: 05-A78358

Sample ID: SB9, 18-18.5

Project: Page 2

Surrogate	<pre>% Recovery</pre>	Target Range
TPH Hi Surr., o-Terphenyl	111.	35. ~ 135.
VOA Surr, 1,2-DCAd4	101.	72 125.
VOA Surr Toluene-d8	104.	80 124.
VOA Surr, 4-BFB	104.	25 185.
VOA SUTT, DBFM	89.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78359 Sample ID: SB9, 19.5-20'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 8:37 Date Received: 6/ 1/05 Time Received: 8:00

Dil Analysis Analysis Report Date Time Analyst Method Batch Limit Result Units Factor Analyte --------------*GENERAL CHEMISTRY PARAMETERS* 6/ 7/05 9:14 K. Turner CLP 4850 1.0 % Dry Weight 86.6 Ł *ORGANIC PARAMETERS* 6/ 7/05 11:06 H. Wagner 8021B 9032 mg/kg 0.0010 1.0 **Benzene 9032 1.0 6/ 7/05 11:06 H. Wagner 8021B 0.0050 **Ethylbenzene ND mg/kg 9032 1.0 6/ 7/05 11:06 H. Wagner 80218 ND 0.0050 **Toluene mg/kg 9032 0.0050 1.0 6/ 7/05 11:06 H. Wagner 8021B **Xylenes, total ND mg/kg 9032 4.96 1.0 6/ 7/05 11:06 H. Wagner 8015B **TPH (Gasoline Range) ND mg/kg 5647 6/ 4/05 17:22 B. Yanna 8015B 10.0 1.0 **TPH (Diesel Range) ND mg/kg *VOLATILE ORGANICS* 6503 0.0020 1.0 6/ 5/05 9:42 J. Bundy 8260B **Methyl-t-butyl ether ND mg/kg Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organics BTX Prep	5.02 g 5.04 q			13:26 13:29	J. Bundy H. Wagner	5035 5035

% Recovery Target Range Surrogate ----------

UST surr-Trifluorotoluene

106.



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ANALYTICAL REPORT

Laboratory Number: 05-A78359

Sample ID: SB9, 19.5-20'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	81.	35 135.
VOA Surr, 1,2-DCAd4	108.	72 125.
VOA Surr Toluene-d8	106.	80 124.
VOA Surr, 4-BFB	106.	25 185.
VOA Surr. DBFM	92.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78360 Sample ID: SB9, 24.5-25

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 8:59 Date Received: 6/ 1/05 Time Received: 8:00

nalyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
GENERAL CHEMISTRY PARAME	TERS								
% Dry Weight	89.4	%		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
*Benzene	1.58	mg/kg	0.250	250.	6/ 7/05	13:01	H. Wagner	80218	903
*Ethylbenzene	0.400	mg/kg	0.250	250.	6/ 7/05	13:01	H. Wagner	8021B	903
*Toluene	1.10	mg/kg	0.250	250.	6/ 7/05	13:01	H. Wagner	8021B	903
*Xylenes, total	1.72	mg/kg	1.25	250.	6/ 7/05	13:01	H. Wagner	8021B	903
*TPH (Gasoline Range)	279.	mg/kg	25.0	250.	6/ 7/05	13:01	H. Wagner	8015B	903
*TPH (Diesel Range)	ND	mg/kg	9.88	1.0	6/ 4/05	17:41	B. Yanna	8015B	564
VOLATILE ORGANICS									
*Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	10:12	J. Bundy	8260B	650

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
•						
EPH/DRO	25.3 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.04 g	5.0 ml	6/ 4/05	13:32	J. Bundy	5035
BTX Prep	5.00 g	5.0 ml	6/ 4/05	13:35	H. Wagner	5035

UST surr-Trifluorotoluene

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ANALYTICAL REPORT

Laboratory Number: 05-A78360

Sample ID: SB9, 24.5-25

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	80.	35 135.
VOA Surr, 1,2-DCAd4	91.	72 125.
VOA Surr Toluene-d8	140. #	80 124.
VOA Surr, 4-BFB	259. #	25 185.
VOA Surr, DBFM	81.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.

8260 surrogates elevated due to matrix. Sample non-detect

for target analytes.



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78361 Sample ID: SB10, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 9:28 Date Received: 6/ 1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	83.6	*		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	11:25	H. Wagner	8021B	903:
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	11:25	H. Wagner	8021B	903:
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	11:25	H. Wagner	8021B	903
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	11:25	H. Wagner	8021B	903:
**TPH (Gasoline Range)	ND	mg/kg	5.01	1.0	6/ 7/05	11:25	H. Wagner	8015B	903:
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 4/05	18:00	B. Yanna	8015B	564
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	10:41	J. Bundy	8260B	650

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method	
EPH/DRO	25.2 g	ym 1.0 ml	6/ 2/05		K. Turner	3550	
Volatile Organic	s 4.96 g	y 5.0 ml	6/ 4/05	13:37	J. Bundy	5035	
BTX Prep	4.99	g 5.0 ml	6/ 4/05	13:40	H. Wagner	5035	

Surrogate % Recovery Target Range

UST surr-Trifluorotoluene

110.



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ANALYTICAL REPORT

Laboratory Number: 05-A78361 Sample ID: SB10, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	76.	35 135.
VOA Surr, 1,2-DCAd4	108.	72 125.
VOA Surr Toluene-d8	101.	80 124.
VOA Surr, 4-BFB	108.	25 185.
VOA Surr. DRFM	96.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78362 Sample ID: SB10, 17.5-18'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 10:08 Date Received: 6/ 1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batci
GENERAL CHEMISTRY PARAM % Dry Weight	eters 85.4	8		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	22:37	H. Wagner	8021B	665
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	22:37	H. Wagner	8021B	665
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	22:37	H. Wagner	8021B	665
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	22:37	H. Wagner	8021B	665
**TPH (Gasoline Range)	ND	mg/kg	5.03	1.0	6/ 6/05	22:37	H. Wagner	80158	665
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 5/05	6:29	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	11:15	J. Bundy	8260B	650

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 9	ym 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 4.98 g	; 5.0 ml	6/ 4/05	13:44	J. Bundy	5035
BTX Prep	4.97 g	; 5.0 ml	6/ 4/05	13:47	H. Wagner	5035

Surrogate % Recovery Target Range

UST surr-Trifluorotolueme

105.



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ANALYTICAL REPORT

Laboratory Number: 05-A78362

Sample ID: SB10, 17.5-18'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	85.	35 135.
VOA Surr, 1,2-DCAd4	108.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	106.	25 185.
VOA Surr, DBFM	95.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall

2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78363 Sample ID: SB10, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 10:49 Date Received: 6/ 1/05 Time Received: 8:00

Dil Analysis Analysis Report Result Units Factor Date Time Analyst Method Analyte Limit _____ -----*GENERAL CHEMISTRY PARAMETERS* 4850 6/ 7/05 9:14 K. Turner CLP 1.0 % Dry Weight 86.9 *ORGANIC PARAMETERS* 6658 0.0010 1.0 6/6/05 22:56 H. Wagner 8021B mg/kg **Benzene ND 1.0 6/6/05 22:56 H. Wagner 8021B 6658 0.0050 **Ethylbenzene mg/kg ND 1.0 6/6/05 22:56 H. Wagner 8021B 6658 0.0050 **Toluene mg/kg ND 1.0 6/6/05 22:56 H. Wagner 8021B 6658 **Xylenes, total ND mg/kg 0.0050 1.0 6/6/05 22:56 H. Wagner 8015B 6658 **TPH (Gasoline Range) ND mg/kg 5.01 6/ 6/05 21:29 M.Jarrett 8015B 7379 1.0 **TPH (Diesel Range) ND mg/kg 10.0 *VOLATILE ORGANICS* 0.0020 1.0 6/5/05 11:45 J. Bundy 8260B 6503 **Methyl-t-butyl ether mg/kg ND

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	MC\ AOT					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	6/ 6/05		K. Turner	3550
Volatile Organic	s 5.00 g	5.0 ml	6/ 4/05	13:51	J. Bundy	5035
BTX Prep	4.99 g	5.0 ml	6/ 4/05	13:53	H. Wagner	5035

% Recovery Target Range Surrogate ----

UST surr-Trifluorotoluene

105.



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ANALYTICAL REPORT

Laboratory Number: 05-A78363

Sample ID: SB10, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range		
TPH Hi Surr., o-Terphenyl	93.	35. - 13 5.		
VOA Surr, 1,2-DCAd4	101.	72 125.		
VOA Surr Toluene-d8	101.	80 124.		
VOA Surr, 4-BFB	106.	25 185.		
VOA Surr. DBFM	95 <i>.</i>	73 124.		

LABORATORY COMMENTS:

 ${\tt ND}$ = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78364 Sample ID: SB11, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 11:15 Date Received: 6/ 1/05

Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date		Analyst	Method	Batc
GENERAL CHEMISTRY PARAME	TERS								
% Dry Weight	84.1	%		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	23:16	H. Wagner	8021B	665
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:16	H. Wagner		665
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:16	H. Wagner	80218	665
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	23:16	H. Wagner	8021B	665
**TPH (Gasoline Range)	ND	mg/kg	4.99	1.0	6/ 6/05	23:16	H. Wagner		665
**TPH (Diesel Range)	ND	mg/kg	10.2	1.0	6/ 5/05	7:42	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	12:15	J. Bundy	8260B	650
Silica Gel Cleanup performe	d for TPH-DRC	analysis.							
Sample Extraction Data									
Wt/Vol									
	d Extract Vo	l Date	Time	Analyst	Method				
					_				

EPH/DRO	24.6 gm	1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organics	s 5.00 g	5.0 ml	6/ 4/05	13:57	J. Bundy	5035
BTX Prep	5.01 g	5.0 ml	6/ 4/05	14:00	H. Wagner	5035
Surrogate			% Red	overy	Target	: Range

UST surr-Trifluorotoluene

109.



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ANALYTICAL REPORT

Laboratory Number: 05-A78364

Sample ID: SB11, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	98.	35 135.
VOA Surr, 1,2-DCAd4	108.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA SUII, 4-BFB	107.	25 185.
VOA Surr, DBFM	95.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78365 Sample ID: SB11, 18.5-19'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 11:45 Date Received: 6/ 1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batcl
GENERAL CHEMISTRY PARAM % Dry Weight	ETERS	ŧ.		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 6/05	23:35	H. Wagner	8021B	665
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:35	H. Wagner	8021B	665
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:35	H. Wagner	8021B	665
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 6/05	23:35	H. Wagner	8021B	665
**TPH (Gasoline Range)	ND	mg/kg	4.95	1.0	6/ 6/05	23:35	H, Wagner	8015B	665
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 5/05	8:01	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ИД	mg/kg	0.0020	1.0	6/ 5/05	12:45	J. Bundy	8260B	650

Sample Extraction Data

EPH/DRO 25.0 gm 1.0 ml 6/ 2/05 K. Turner 3550 Volatile Organics 4.95 g 5.0 ml 6/ 4/05 14:02 J. Bundy 5035 BTX Prep 5.05 g 5.0 ml 6/ 4/05 14:04 H. Wagner 5035	Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method	
volatile diguilled			,		14.02			
	•	•	•			•		

Surrogate & Recovery Target Range

UST surr-Trifluorotoluene

105.



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ANALYTICAL REPORT

Laboratory Number: 05-A78365 Sample ID: SB11, 18.5-19'

Project: Page 2

Surrogate	% Recovery	Target Range
		+
TPH Hi Surr., c-Terphenyl	99.	35 135.
VOA Surr, 1,2-DCAd4	108.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	104.	25 185.
VOA Surr, DBFM	94.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78366 Sample ID: SB11, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 12:08 Date Received: 6/ 1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
									*
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	87.6	g.		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	0.0082	mg/kg	0.0010	1.0	6/ 6/05	23:54	H. Wagner	8021B	665
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:54	H. Wagner	8021B	665
**Toluene	ND	mg/kg	0.0050	1.0	6/ 6/05	23:54	H. Wagner	8021B	665
**Xylenes, total	0.0053	mg/kg	0.0050	1.0	6/ 6/05	23:54	H. Wagner	8021B	665
**TPH (Gasoline Range)	ND	mg/kg	4.98	1.0	6/ 6/05	23:54	H. Wagner	8015B	665
**TPH (Diesel Range)	ир	mg/kg	10.0	1.0	6/ 5/05	8:19	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	13:15	J. Bundy	8260B	650

Bilica del Cleanab bettormed for ith puo amaragia

Sample Extraction Data

Parameter	Wt/Vol Extracted Ex	tract Vol	Date	Time	Analyst	Method
EPH/DRO Volatile Organic BTX Prep		1.0 ml 5.0 ml 5.0 ml	6/ 2/05 6/ 4/05 6/ 4/05	14:07 14:09	K. Turner J. Bundy H. Wagner	3550 5035 5035

Surrogate % Recovery Target Range

UST surr-Trifluorotoluene

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ANALYTICAL REPORT

Laboratory Number: 05-A78366 Sample ID: SB11, 24.5-25'

Project: Page 2

Surrogate ·	% Recovery	Target Range
	•	
TPH Hi Surr., o-Terphenyl	80.	35 135.
VOA Surr, 1,2-DCAd4	106,	72 125.
VOA Surr Toluene-d8	105.	80 124.
VOA Surr, 4-BFB	108.	25 185.
VOA Surr. DRFM	98.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78367 Sample ID: SB12, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 12:28 Date Received: 6/ 1/05

Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batc
*	2-2								
GENERAL CHEMISTRY PARAM % Dry Weight	ETERS 88.1	*		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	0:13	H. Wagner	8021B	665
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:13	H. Wagner	8021B	665
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:13	H. Wagner	8021B	665
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	0:13	H. Wagner	8021B	665
**TPH (Gasoline Range)	ND	mg/kg	4.97	1.0	6/ 7/05	0:13	H. Wagner	8015B	665
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	6/ 5/05	8:38	B. Yanna	80158	668
VOLATILE ORGANICS								22.500	650
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	13:45	J. Bundy	8260B	630
Silica Gel Cleanup perform	ned for TPH-DRO	analysis.							

Sample Extraction Data

Parameter	Wt/Vol Extracted Ext	tract Vol	Date	Time	Analyst	Method
EPH/DRO Volatile Organic BTX Prep	24.9 gm s 5.00 g 5.03 g	1.0 ml 5.0 ml 5.0 ml	-,	14:11 14:13	K. Turner J. Bundy H. Wagner	3550 5035 5035

Surrogate	% Recovery	Target Range

UST surr-Trifluorotoluene

107.



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ANALYTICAL REPORT

Laboratory Number: 05-A78367

Sample ID: SB12, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	76.	35 135.
VOA Surr, 1,2-DCAd4	109.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	105.	25 185.
VOA Surr, DBFM	96.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

 $\star\star$ = NELAC E87358 Certified Analyte



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ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78368

Sample ID: SB12, 16.5-17'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 13:54 Date Received: 6/ 1/05 Time Received: 8:00

Dil Analysis Analysis Report Batch Date Time Analyst Method Limit Factor Result Units Analyte _____ _____ *GENERAL CHEMISTRY PARAMETERS* 4850 6/ 7/05 9:14 K. Turner CLP 1.0 % Dry Weight 84.3 *ORGANIC PARAMETERS* 6/ 7/05 0:32 H. Wagner 8021B 6658 0.0010 1.0 mg/kg **Benzene ND 6/ 7/05 0:32 H. Wagner 8021B 6658 0.0051 1.0 mg/kg **Ethylbenzene ND 6658 6/ 7/05 0:32 H. Wagner 8021B 0.0051 1.0 mg/kg **Toluene ND 6658 1.0 6/ 7/05 0:32 H. Wagner 8021B 0.0051 ND mg/kg **Xylenes, total 6658 6/ 7/05 0:32 H. Wagner 8015B 1.0 ND mg/kg 5.05 **TPH (Gasoline Range) 6/ 5/05 8:56 B. Yanna 8015B 6684 1.0 mg/kg 9.88 **TPH (Diesel Range) ND *VOLATILE ORGANICS* 7213 6/ 5/05 18:46 J. Adams 8260B 1.0 0.0020 mq/kg **Methyl~t-butyl ether ND

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.05 g	5.0 ml	6/ 4/05	14:16	J. Bundy	5035
BTX Prep	4.95 g	5.0 ml	6/ 4/05	14:18	H. Wagner	5035

Surrogate & Recovery Target Range

UST surr-Trifluorotoluene

107.



ANALYTICAL REPORT

Laboratory Number: 05-A78368

Sample ID: SB12, 16.5-17'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	91.	35 135.
VOA Surr, 1,2-DCAd4	121.	72 125.
VOA Surr Toluene-d8	104.	80 124.
VOA Surr, 4-BFB	104.	25 185.
VOA Surr, DBFM	96.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78369 Sample ID: SB12, 25.5-26'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 14:39 Date Received: 6/1/05 Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	87.6	8		1.0	6/ 7/05	9:14	K. Turner	CLP	4850
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	0:52	H. Wagner	8021B	6658
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:52	H. Wagner	8021B	6658
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	0:52	H. Wagner	8021B	6658
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	0:52	H. Wagner	8021B	6658
**TPH (Gasoline Range)	ND	mg/kg	4.98	1.0	6/ 7/05	0:52	H. Wagner	8015B	665
**TPH (Diesel Range)	ND	mg/kg	9.96	1.0	6/ 5/05	9:15	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	19:16	J. Adams	8260B	721
Silica Gel Cleanup perform	ed for TPH-DRO	o analysis.							
Sample Extraction Data									

	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.1 g	pm 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organics	4.99 g	j 5.0 ml	6/ 4/05	14:21	J. Eundy	5035
BTX Prep	5.02 g	5.0 ml	6/ 4/05	14:24	H. Wagner	5035

Target Range % Recovery Surrogate _____ _____

UST surr-Trifluorotoluene

109.

56. - 145.



ANALYTICAL REPORT

Laboratory Number: 05-A78369 Sample ID: SB12, 25.5-26'

Project:

Page 2

Surrogate	% Recovery	Target Range
		_ +
most til 0	91.	35 135.
TPH Hi Surr., o-Terphenyl	27.	
VOA Surr, 1,2-DCAd4	116.	72 125.
VOA Surr Toluene-d8	103.	80 124.
VOA Surr, 4-BFB	105.	25 185.
VOA Surr. DREM	99.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78370 Sample ID: SB13, 5-5.5'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 14:51 Date Received: 6/ 1/05 Time Received: 8:00

Time Received:

Analyte 	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY FARAM	ETERS						K. Turner	CT D	4850
% Dry Weight	81.2	*		1.0	6/ 7/05	9:14	K. Turner	CLP	4000
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	2:06	H. Wagner	8021B	6658
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	2:06	H. Wagner	8021B	6658
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	2:06	H. Wagner	8021B	6656
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	2:06	H. Wagner	8021B	6658
**TPH (Gasoline Range)	ND	mq/kg	5.02	1.0	6/ 7/05	2:06	H. Wagner	8015B	6658
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 5/05	9:33	B. Yanna	8015B	668
VOLATILE ORGANICS									
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	19:46	J. Adams	8260B	721

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 9		6/ 2/05 6/ 4/05	14.27	K. Turner J. Bundy	3550 5035
Volatile Organio	2s 5.00 g 4.98 g		6/ 4/05		H. Wagner	5035

Target Range % Recovery Surrogate -----

UST surr-Trifluorotoluene

110.

56. - 145.



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ANALYTICAL REPORT

Laboratory Number: 05-A78370

Sample ID: SB13, 5-5.5'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	92.	35 135.
VOA Surr, 1,2-DCAd4	118.	72 125.
VOA Surr Toluene-d8	104.	80 124.
VOA Surr, 4-BFB	106.	25 185.
MAN SHEE DEGM	102.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}={\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall

2285 MORELLO AVENUE

PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78371 Sample ID: SB13, 18.5-19'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 15:29 Date Received: 6/ 1/05 Time Received: 8:00

			Report	Dil	Analysis	Analysis			
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batc
GENERAL CHEMISTRY PARAM	ÆTERS								
% Dry Weight	85.4	og.		1.0	6/ 7/05	9:14	K. Turner	CLP	485
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	11:44	H. Wagner	8021B	903:
**Ethylbenzene	ОИ	mg/kg	0.0051	1.0	6/ 7/05	11:44	H. Wagner	8021B	903
**Toluene	ND	mg/kg	0.0051	1.0	6/ 7/05	11:44	H. Wagner	8021B	903:
**Xylenes, total	ND	mg/kg	0.0051	1.0	6/ 7/05	11:44	H. Wagner	8021B	9033
**TPH (Gasoline Range)	ND	mg/kg	5.05	1.0	6/ 7/05	11:44	H. Wagner	8015B	9032
**TPH (Diesel Range)	ND	mg/kg	9.92	1.0	6/ 5/05	9:51	B. Yanna	8015B	6684
VOLATILE ORGANICS									
**Methyl~t-butyl ether	ND	mg/kg	0.0020	1.0	6/ 5/05	20:16	J. Adams	8260B	7213

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 g	m 1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.02 g	5.0 ml	6/ 4/05	14:32	J. Bundy	5035
BTX Prep	4.95 g	5.0 ml	6/ 4/05	14:35	H. Wagner	5035

% Recovery Target Range

UST surr-Trifluorotoluene

106.

56. - 145.



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ANALYTICAL REPORT

Laboratory Number: 05-A78371

Sample ID: SB13, 18.5-19'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	95.	35 135.
VOA Surr, 1,2-DCAd4	111.	72 125.
VQA Surr Toluene-d8	104.	80 124.
VOA Surr, 4-BFB	106.	25 185.
VOA Surr, DBFM	96.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E}$ = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: WYNN PACULBA

Lab Number: 05-A78372 Sample ID: SB13, 24.5-25'

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 15:49 Date Received: 6/ 1/05 Time Received: 8:00

Dil Analysis Analysis Report Factor Date Time Analyst Method Batch Limit Result Units Analyte ______ _____ *GENERAL CHEMISTRY PARAMETERS* 6/ 7/05 9:14 K. Turner CLP 4850 1.0 % Dry Weight 81.4 *ORGANIC PARAMETERS* 6/ 7/05 12:03 H. Wagner 8021B 9032 1.0 0.0011 mg/kg 0.0010 **Benzene 6/ 7/05 12:03 H. Wagner 8021B 9032 mg/kg 0.0050 1.0 ND **Ethylbenzene 9032 6/ 7/05 12:03 H. Wagner 8021B 0.0050 1.0 ND mg/kg **Toluene 6/ 7/05 12:03 H. Wagner 8021B 9032 0.0050 1.0 **Xylenes, total ND mg/kg 9032 6/ 7/05 12:03 H. Wagner 8015B 4-95 1.0 **TPH (Gasoline Range) ND mg/kg 6684 9.92 6/ 5/05 10:10 B. Yanna 8015B 1.0 ND mg/kg **TPH (Diesel Range) *VOLATILE ORGANICS* 7213 6/ 5/05 20:46 J. Adams 8260B 0.0020 1.0 mg/kg **Methyl-t-butyl ether ND

Silica Gel Cleanup performed for TPH-DRO analysis.

Sample Extraction Data

	Wt/Vol					
Parameter	Extracted Ex	tract Vol	Date	Time	Analyst	Method
EPH/DRO	25.2 gm	1.0 ml	6/ 2/05		K. Turner	3550
Volatile Organic	s 5.04 g	5.0 ml	6/ 4/05	14:39	J. Bundy	5035
BTX Prep	5.05 g	5.0 ml	6/ 4/05	14:42	Ħ. Wagner	5035

Surrogate \$ Recovery Target Range

UST surr-Trifluorotoluene

123.

56. - 145.



ANALYTICAL REPORT

Laboratory Number: 05-A78372 Sample ID: SB13, 24.5-25'

Project: Page 2

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	93.	35 135.
VOA Surr, 1,2-DCAd4	109.	72 125.
VOA Surr Toluene-d8	102.	80 124.
VOA Surr, 4-BFB	105.	25 185.
VOA Surr, DBFM	97.	73 124.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

 ${\tt E} = {\tt Estimated}$ Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 1

Laboratory Receipt Date: 6/ 1/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	. Spike Sample
							*	
UST ANALYSIS								
Benzene	mg/kg	< 0.0009	0.0389	0.0500	78	16 158.	6658	178435
Toluene	mg/kg	< 0.0004	0.0369	0.0500	74	10 152.	6658	'78435
Ethylbenzene	mg/kg	< 0.0005	0.0356	0.0500	71	10 160.	6658	78435
Xylenes, total	mg/kg	< 0.0010	0.0665	0.100	66	10 153.	6658	'78435
TPH (Gasoline Range)	mg/kg	< 0.52	8.64	10.0	86	52 150.	6658	'78435
TPH (Diesel Range)	mg/kg	3.94	34.4	40.0	76	28 143.	5647	05-A78252
TPH (Diesel Range)	mg/kg	4.54	35.4	40.0	77	28 143.	6684	05-A78366
VOA Surr, 1,2-DCAd4	% Rec				116	72 - 12	5 6503	
VOA Surr, 1,2-DCAd4	% Rec				116	72 - 12	5 7213	
VOA Surr Toluene-d8	% Rec				99	80 - 12	4 6503	
VOA Surr Toluene-d8	% Rec				99	80 - 12	4 7213	
VOA Surr, 4-BFB	% Rec				102	25 - 18	15 6503	
VOA Surr, 4-BFB	% Rec				101	25 - 18	7213	
VOA Surr, DBFM	% Rec				107	73 - 12	4 6503	
VOA Surr, DBFM	% Rec				105	73 - 12	4 7213	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD 	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.0389	0.0352	9.99	53.	6658
Toluene	mg/kg	0.0369	0.0262	33.91	62.	6658
Ethylbenzene	mg/kg	0.0356	0.0202	55.20	63.	6658
Xylenes, total	mg/kg	0.0665	0.0352	61.55	69.	6658
TPH (Gasoline Range)	mg/kg	8.64	8.60	0.46	39.	6658
TPH (Diesel Range)	mg/kg	34.4	34.0	1.17	51.	5647
TPH (Diesel Range)	mg/kg	35.4	37.0	4.42	51.	6684



PROJECT QUALITY CONTROL DATA

Project Number: Project Name: EXXONMOBIL 7-4121

Page: 2

Laboratory Receipt Date: 6/ 1/05

VOA Surr, 1,2-DCAd4	% Rec	106.	6503
VOA Surr, 1,2-DCAd4	% Rec	116.	7213
VOA Surr Toluene-d8	% Rec	99.	6503
VOA Surr Toluene-d8	% Rec	97.	7213
VOA Surr, 4-BFB	% Rec	99.	6503
VOA Surr, 4-BFB	% Rec	103.	7213
VOA Surr, DBFM	% Rec	104.	6503
VOA Surr, DBFM	% Rec	107.	7213

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.105	105	72 - 124	6658
Benzene	mg/kg	0.100	0.105	105	72 - 124	9032
Toluene	mg/kg	0.100	0.0992	99	49 - 152	6658
Toluene	mg/kg	0.100	0.102	102	49 - 152	9032
Ethylbenzene	mg/kg	0.100	0.106	106	72 - 126	6658
Ethylbenzene	mg/kg	0.100	0.112	112	72 - 126	9032
Xylenes, total	mg/kg	0.200	0.200	100	75 - 122	6658
Xylenes, total	mg/kg	0.200	0.214	107	75 - 122	9032
TPH (Gasoline Range)	mg/kg	10.0	8.64	86	74 - 127	6658
TPH (Gasoline Range)	mg/kg	10.0	7.77	78	74 - 127	9032
TPH (Diesel Range)	mg/kg	40.0	38.6	96	54 - 126	5647
TPH (Diesel Range)	mg/kg	40.0	36.2	90	54 - 126	6684
TPH (Diesel Range)	mg/kg	40.0	35.6	89	54 - 126	7379
VOA PARAMETERS						
Methyl-t-butyl ether	mg/kg	0.0500	0.0566	113	67 - 138	6503
Methyl-t-butyl ether	mg/kg	0.0500	0.0566	113	67 - 138	7213
VOA Surr, 1,2-DCAd4	% Rec			109	72 - 125	6503
VOA Surr, 1,2-DCAd4	% Rec			120	72 - 125	7213
VOA Surr Toluene-d8	% Rec			102	80 - 124	6503
VOA Surr Toluene-d8	% Rec			99	80 - 124	7213
VOA Surr, 4-BFB	% Rec			102	25 - 185	6503
VOA Surr, 4-BFB	% Rec			100	25 - 185	7213
VOA Surr, DBFM	% Rec			101	73 - 124	6503
VOA Surr, DBFM	% Rec			108	73 - 124	7213



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PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 3

Laboratory Receipt Date: 6/ 1/05

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch		Time Analyzed

UST PARAMETERS				~ (~ (~ r	08.00
Benzene	< 0.0009	mg/kg		6/ 6/05	20:23
Benzene	< 0.0009	3. 2	6658	6/ 6/05	20:42
Benzene	< 0.0009	mg/kg	9032	6/ 7/05	8:54
Benzene	< 0.0009	mg/kg	9032	6/ 7/05	9:13
Toluene	0.0007	mg/kg	6658	6/ 6/05	20:23
Toluene	0.0004	mg/kg	6658	6/ 6/05	20:42
Toluene	0.0007	mg/kg	9032	6/ 7/05	8:54
Toluene	0.0004	mg/kg	9032	6/ 7/05	9:13
Ethylbenzene	< 0.0005	mg/kg	6658	6/ 6/05	20:23
Ethylbenzene	< 0.0005	mg/kg	6658	6/ 6/05	20:42
Ethylbenzene	< 0.0005	mg/kg	9032	6/ 7/05	8:54
Ethylbenzene	< 0.0005	mg/kg	9032	6/ 7/05	9:13
Xylenes, total	< 0.0010	mg/kg	6658	6/ 6/05	20:23
Xylenes, total	< 0.0010	mg/kg	6658	6/ 6/05	20:42
Xylenes, total	< 0.0010	mg/kg	9032	6/ 7/05	8:54
Xylenes, total	< 0.0010	mg/kg	9032	6/ 7/05	9:13
TPH (Gasoline Range)	< 0.52	mg/kg	6658	6/ 6/05	20:23
TPH (Gasoline Range)	< 0.52	mg/kg	6658	6/ 6/05	20:42
TPH (Gasoline Range)	< 0.52	mg/kg	9032	6/ 7/05	8:54
TPH (Gasoline Range)	< 0.52	mg/kg	9032	6/ 7/05	9:13
TPH (Diesel Range)	< 0.10	mg/kg	5647	6/ 4/05	10:04
TPH (Diesel Range)	2.52	mg/kg	6684	6/ 5/05	5:16
TPH (Diesel Range)	< 0.10	mg/kg	7379	6/ 6/05	20:53



PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 4

Laboratory Receipt Date: 6/ 1/05

UST surr-Trifluorotoluene	104.	% Recovery	6658	6/	6/05	20:23
UST surr-Trifluorotoluene	104.	% Recovery	6658	6/	6/05	20:42
UST surr-Trifluorotoluene	105.	% Recovery	9032	6/	7/05	8:54
UST surr-Trifluorotoluene	104.	% Recovery	9032	6/	7/05	9:13
VOA PARAMETERS						
Methyl-t-butyl ether	< 0.0009	mg/kg	6503	6/	5/05	4:41
Methyl-t-butyl ether	< 0.0009	mg/kg	7213	6/	5/05	17:16
VOA Surr, 1,2-DCAd4	106.	% Rec	6503	6/	5/05	4:41
VOA Surr, 1,2-DCAd4	114.	% Rec	7213	6/	5/05	17:16
VOA Surr Toluene-d8	104.	% Rec	6503	6/	5/05	4:41
VOA Surr Toluene-d8	102.	% Rec	7213	6/	5/05	17:16
VOA Surr, 4-8F8	102.	% Rec	6503	6/	5/05	4:41
VOA Surr, 4-8FB	104.	% Rec	7213	6/	5/05	17:16
VOA Surr, DBFM	92.	% Rec	6503	6/	5/05	4:41
VOA Surr, DBFM	98.	* Rec	7213	6/	5/05	17:16

^{# =} Value outside Laboratory historical or method prescribed QC limits.

CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division Toll Free: 800-765-0980

2960 Foster Creighton

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ExonMobil.

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2960 Foster Creighton

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Page 2 of 4

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CHAIN OF CUSTODY RECORD Phone: 615-726-0177

Nashville Division

2960 Foster Creighton Nashville, TN 37204

Toll Free: 800-765-0980 Fax: 615-726-3404 ExonMobil.

Consultant Name:	ETIC ENGINE	ERING	16-																•		_			s Pre								•
Address:	2285 MORELL	O AVENUE																						r Şec	llac	hek	(Exx	<u>onM</u>	obil	<u>PM)</u>	<u> </u>	
City/State/Zip:	PLEASANT HI	LL, CA. 94523								_				_			_	Ac			_	102	<u> 236</u>	<u> </u>								-
ExxonMobil Project Mgr:	Sherris Prai																			0	_		_									-
Telephone Number:	(925) 602-471	0, ext 20				Fa	c No).: <u>(</u>	(925	5) 6	02-4	172)										121									-
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CHAIN OF CUSTODY RECORD phone: 615-726-0177

Test/America

Nashville Division

2960 Foster Creighton

Toll Free: 800-765-0980

ExonMobil.

			Nashville, I i	N 3/2	U4					•	ax.	. 01	J-1.	٠٠٠٠) -1 V-	•			Ren	ort '	To:	Sh	erri	s Pr	ali							
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COOLER RECEIPT FORM

BC#



Client Name: ETIC Engineering
Cooler Received/Opened On: 6/01/05 Accessioned By: Shawn Gracey
Log-in Personnel Signature
1. Temperature of Cooler when triaged: Degrees Celsius
2. Were custody seals on outside of cooler?
a. If yes, how many, and where:
3. Were custody seals on containers?NA
4. Were the seals intact, signed, and dated correctly?
5. Were custody papers inside cooler?
6. Were custody papers properly filled out (ink, signed, etc)?
7. Did you sign the custody papers in the appropriate place? YESNONA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Zipłock Baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?
11. Were all container labels complete (#, date, signed, pres., etc)? (YESNONA
12. Did all container labels and tags agree with custody papers?
13. Were correct containers used for the analysis requested?
14. a. Were VOA vials received?
b. Was there any observable head space present in any VOA vial?
15. Was sufficient amount of sample sent in each container?
16. Were correct preservatives used? YESNONA
If not, record standard ID of preservative used here
17. Was residual chlorine present?
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
Fed-Ex UPS Velocity DHL Route Off-street Misc.



6/8/05

RECEVED

JUN 14 2005

ETIC ENGINEERING

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 7-4121

Project Number: .

Laboratory Project Number: 417995.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
DRUM1/DRUM2	05-A78435	5/27/05
DRUM1/DRUM2	05-A78436	5/27/05



Sample Identification

Lab Number _____

Page 2

Collection Date

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Ponula a. Hosp

Report Approved By:

Report Date: 6/8/05

Johnny A. Mitchell, Laboratory Director Michael H. Dunn, M.S., Technical Director Pamela A. Langford, Senior Project Manager Eric S. Smith, QA/QC Director Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager Glenn L. Norton, Technical Services Kelly S. Comstock, Technical Services Roxanne L. Connor, Senior Project Manag

Laboratory Certification Number: 01168CA

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: HAMIDOU BARRY

Purchase Order: !

Lab Number: 05-A78435 Sample ID: DRUM1/DRUM2

Sample Type: Soil Site ID: 7-4121

Date Collected: 5/27/05
Time Collected: 16:45
Date Received: 6/ 1/05
Time Received: 8:00

Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAM	ETERS								
% Dry Weight	80.8	8		1.0	6/ 7/05	9:14	K. Turner	CLP	4850
ORGANIC PARAMETERS									
**Benzene	ND	mg/kg	0.0010	1.0	6/ 7/05	3:31	H. Wagner	8021B	6658
**Ethylbenzene	ND	mg/kg	0.0050	1.0	6/ 7/05	3:31	H. Wagner	B021B	6658
**Toluene	ND	mg/kg	0.0050	1.0	6/ 7/05	3:31	H. Wagner	8021B	6658
**Xylenes, total	ND	mg/kg	0.0050	1.0	6/ 7/05	3:31	H. Wagner	8021B	6658
**TPH (Gasoline Range)	ND	mg/kg	5.02	1.0	6/ 7/05	3:31	H. Wagner	8015B	6658
METALS									
**Lead	6.87	mg/kg	1.01	1.0	6/ 3/05	17:34	K. Ahmed	6010B	294

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organic	s 5.03 g	5.0 ml	6/ 4/05	14:46	J. Bundy	5035
BTX Prep	4.98 g	5.0 ml	6/ 4/05	14:48	H. Wagner	5035

Sample report continued . . .



ANALYTICAL REPORT

Laboratory Number: 05-A78435

Sample ID: DRUM1/DRUM2

Project: Page 2

Surrogate % Recovery Target Range
-----UST surr-Trifluorotoluene 105. 56. - 145.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.

End of Sample Report.



ANALYTICAL REPORT

ETIC ENGINEERING 10236 Sherris Prall 2285 MORELLO AVENUE PLEASANT HILL, CA 94523

Project:

Project Name: EXXONMOBIL 7-4121

Sampler: HAMIDOU BARRY

Purchase Order: !

Lab Number: 05-A78436 Sample ID: DRUM1/DRUM2 Sample Type: Soil

Site ID: 7-4121

Date Collected: 5/27/05 Time Collected: 16:45 Date Received: 6/ 1/05 Time Received: 8:00

Page: 1

			Report	Dil	Analysis	Analysis			
Analyte	Result	Units	Limit	Factor	Date	Time	Analyst	Method	Batch

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

** = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.

End of Sample Report.



PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 1

Laboratory Receipt Date: 6/ 1/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch Spike Sample
**							
UST ANALYSIS							
Benzene	mg/kg	< 0.0009	0.0389	0.0500	78	16 158.	6658 '78435
Toluene	mg/kg	< 0.0004	0.0369	0.0500	74	10 152.	6658 '78435
Ethylbenzene	mg/kg	< 0.0005	0.0356	0.0500	71	10 160.	6658 (78435
Xylenes, total	mg/kg	< 0.0010	0.0665	0.100	66	10 153.	6658 '78435
TPH (Gasoline Range)	mg/kg	< 0.52	B.64	10.0	86	52 150.	6658 '78435
METALS							
Lead	mg/kg	5.98	95.9	100.	90	75 125.	2942 05-A78458

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	O.C. Batch
Analyce	UIIICS	Olig. var.	Dapiicale			*
UST PARAMETERS						
UST PARAMETERS						
Benzene	mg/kg	0.0389	0.0352	9.99	53.	6658
Toluene	mg/kg	0.0369	0.0262	33.91	62.	6658
Ethylbenzene	mg/kg	0.0356	0.0202	55.20	63.	6658
Xylenes, total	mg/kg	0.0665	0.0352	61.55	69.	6658
TPH (Gasoline Range)	ma/ka	8.64	8.60	0.46	39.	6658

Project QC continued . . .



2942

2.17 20

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 2

Laboratory Receipt Date: 6/ 1/05

METALS

Lead mg/kg 95.9 98.0

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/kg	0.100	0.105	105	72 - 124	6658
Toluene	mg/kg	0.100	0.0992	99	49 - 152	6658
Ethylbenzene	mg/kg	0.100	0.106	106	72 - 126	6658
Xylenes, total	mg/kg	0.200	0.200	100	75 - 122	6658
TPH (Gasoline Range)	mg/kg	10.0	8.64	86	74 - 127	6658
METALS						
Lead	mg/kg	100.	98.8	99	80 - 120	2942

Duplicates

Analyte units Orig. Val. Duplicate RPD Limit Q.C. Batch Sample Dup'd

Blank Data

Analyte Blank Value Units Q.C. Batch Date Analyzed Time Analyzed

UST PARAMETERS

Benzene < 0.0009 mg/kg 6658 6/6/05 20:23

Project QC continued . . .



PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: EXXONMOBIL 7-4121

Page: 3

Laboratory Receipt Date: 6/ 1/05

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.0009	mg/kg	6658	6/ 6/05	20:42
Toluene	0.0007	mg/kg	6658	6/ 6/05	20:23
Toluene	0.0004	mg/kg	6658	6/ 6/05	20:42
Ethylbenzene	< 0.0005	mg/kg	6658	6/ 6/05	20:23
Ethylbenzene	< 0.0005	mg/kg	6658	6/ 6/05	20:42
Xylenes, total	< 0.0010	mg/kg	6658	6/ 6/05	20:23
Xylenes, total	< 0.0010	mg/kg	6658	6/ 6/05	20:42
TPH (Gasoline Range)	< 0.52	mg/kg	6658	6/ 6/05	20:23
TPH (Gasoline Range)	< 0.52	mg/kg	6658	6/ 6/05	20:42
UST surr-Trifluorotoluene	104.	% Recovery	6658	6/ 6/05	20:23
UST surr-Trifluorotoluene	104.	% Recovery	6658	6/ 6/05	20:42
METALS					
Lead	0.70	mg/kg	2942	6/ 3/05	17:34
		_			

^{# =} Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 417995

Nashville Division

CHAIN OF CUSTODY RECORD
Phone: 615-726-0177417995

2960 Foster Creighton Nashville, TN 37204

Toll Free: 800-765-0980 Fax: 615-726-3404 ExonMobil.

Consultant Name:	ETIC ENGINE	ERING															F	(ep	ort '	Го:	Sh	erri	s P	rall							
Address:	2285 MORELL	O AVENUE															ln	iovi	ce '	To:	Jen	nife	r Se	edla	che	k (E	xxor	ιМο	bil F	-M)	
City/State/Zip:	PLEASANT H	ILL, CA. 9452	3														A	ccc	un	t #:	10	236	}								
ExxonMobil Project Mgr:	Sherris Pral																		PC) #:											
Telephone Number:	(925) 602-471	10, ext 20				Fa	x No).: <u>(</u> 9	25	602	2-47	20					Fa	acili	ty I	D#	7-4	12	1								
Sampler Name: (Print) Sampler Signature:	Ham	idou 1	Bas	X4													Site	э Ас	ddre	38S	100	605	Fo	othi	II B	oul	evar	rd			
Sampler Signature:	کــ	Pearle		7													ity,	Sta	ate :	Zìp	Oa	kla	nd,	CA							
-		·					Π	Р	res	erva	tive		T		М	atrix	·	Т						ze F	or:	_	_				
Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	lce	HNO ₃ (Red Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Orinking Water	Sludge	Soil	Other (specify):	TPH-g/BTEX by 8015/8021	Total Lead by 6010B									Sch	TAT request (in Bus. Days)	Fax Results
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Nashville Division

COOLER RECEIPT FORM

BC#

Client Name: ETIC Engineering
Cooler Received/Opened On: 6/01/05 Accessioned By: Shawn Gracey
Log-in Personnel Signature
1. Temperature of Cooler when triaged: Degrees Celsius
2. Were custody seals on outside of cooler?
a. If yes, how many, and where:
3. Were custody seals on containers?
4. Were the seals intact, signed, and dated correctly?
5. Were custody papers inside cooler?
6. Were custody papers properly filled out (ink, signed, etc)?
7. Did you sign the custody papers in the appropriate place?
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
Ziplock Baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YESNONA
11. Were all container labels complete (#, date, signed, pres., etc)? ESNONA
12. Did all container labels and tags agree with custody papers? (ESNONA
13. Were correct containers used for the analysis requested?
14. a. Were VOA vials received?
b. Was there any observable head space present in any VOA vial? NOYESNA
15. Was sufficient amount of sample sent in each container?
16. Were correct preservatives used? YESNO(NA
If not, record standard ID of preservative used here
17. Was residual chlorine present?
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
Eed-Ex UPS Velocity DHL Route Off-street Misc.