ExxonMobil Environmental Services Company

4096 Piedmont Avenue #194 Oakland, California 94611 510 547 8196 Telephone 510 547 8706 Facsimile

Jennifer C. Sedlachek

Project Manager



By Alameda County Environmental Health at 2:36 pm, Oct 09, 2014



October 7, 2014

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

RE: Former Exxon RAS #79374/990 San Pablo Avenue, Albany, California.

Dear Mr. Detterman:

Attached for your review and comment is a copy of the letter report entitled *Soil Vapor Assessment Report*, dated October 7, 2014, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details activities at the subject site.

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

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

Sincerely,

Jennifer C. Sedlachek Project Manager

Attachment:

Cardno ERI's Soil Vapor Assessment Report, dated October 7, 2014

cc:

w/ attachment

Ms. Muriel T. Blank, Trustee, The Blank Family Trust Reverend Deborah Blank, Trustee, The Blank Family Trust

Ms. Marcia Blank Kelly, The Blank Family Trust

Sedbella

w/o attachment

Mr. Greg Gurss, Cardno ERI



October 7, 2014 Cardno ERI 2735C.R07 Cardno ERI License A/C10/C36-611383

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Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611

SUBJECT

Soil Vapor Assessment Report

Former Exxon Service Station 79374 990 San Pablo Avenue, Albany, California

Alameda County Department of Environmental Health RO 0002974

Ms. Sedlachek:

At the request of ExxonMobil Environmental Services (EMES), on behalf of Exxon Mobil Corporation, Cardno ERI prepared this soil vapor assessment report for the subject site. The purpose of the work was to conduct seasonal soil vapor sampling at the subject site, as recommended in the *Soil, Soil Vapor, and Groundwater Investigation Report and Site Conceptual Model*, dated May 2, 2014 (Cardno ERI, 2014a). Prior to submitting the report, which detailed the initial soil vapor sampling event at the site, the Alameda County Department of Environmental Health (ACEH) issued a deadline of June 16, 2014, for the second soil vapor sampling event at the site. In electronic correspondence dated June 5, 2014 (Appendix A), the ACEH granted an extension for the soil vapor sampling to October 10, 2014, so that the second event could take place approximately six months after the first sampling event in opposing seasons.

Additionally, the ACEH requested a foundation analysis in correspondence dated July 7, 2014 (Appendix A). The foundation analysis is included in this report. Additional work requested by the ACEH in correspondence dated July 7 and August 22, 2014 (Appendix A), will be submitted under separate cover as detailed in the Response To Comments and Request For Extension, dated September 5, 2014 (Cardno ERI, 2014c).

SITE DESCRIPTION

Former Exxon Service Station 79374 is located at 990 San Pablo Avenue, on the northwestern corner of the intersection of Buchanan Street and San Pablo Avenue, Albany, California (Plate 1). A Generalized Site Plan is included as Plate 2. A tabular site conceptual model for the site detailing additional site information is included as Appendix B.

A retail outlet for Benjamin Moore paints and painting products and associated asphalt parking area currently occupies the site. The surrounding areas consist of residential and commercial properties (Plate 2). The City of Albany Fire Department and Police Department are located south of the site on Buchanan Street. ACEH case number RO0000119, identified as Firestone #3655 in the GeoTracker database, is located across San Pablo Avenue to the east. A Shell Service Station and an Atlantic Richfield Company Service Station (Arco) are located approximately 350 and 500 feet away, respectively, south-southeast of the site.

In 1945, a service station owned by Signal Oil Company occupied the site. Humble Oil company acquired the site in 1967 from Standard Oil Company of California (Chevron), rebranding the site as an Enco station. The station was rebranded as an Exxon service station in 1975 (EDR, 2009a; EDR, 2009b).

The service station was demolished in 1983. During demolition activities, one used-oil UST and four gasoline USTs were removed and the resulting tank cavity was backfilled with sand and compacted to 90% (City of Albany, 1983).

GEOLOGY AND HYDROGEOLOGY

The site lies at an approximate elevation of 40 feet above msl, and the local topography slopes toward the southwest. The site is located along the eastern margin of the San Francisco Bay within the East Bay Plain (Hickenbottom and Muir, 1988). The surficial deposits in the site vicinity are mapped as Holocene alluvial fan and fluvial deposits (Graymer, 2000). The site is located approximately 1,630 feet north-northwest of Cordornices Creek. The active northwest trending Hayward fault is located approximately 1½ miles northeast of the site.

The East Bay Plain is regionally divided into two major groundwater basins: the San Pablo and the San Francisco Basin. These basins are tectonic depressions that are filled primarily with a sequence of coalescing alluvial fans. The San Francisco Basin is further divided into seven sub-areas. The site is located in the Berkeley Sub-Area, which is filled primarily by alluvial deposits that range from 10 to 300 feet thick with poorly defined aquitards (CRWQCB, 1999). Under natural conditions, the direction of groundwater flow in the East Bay Plain is east to west.

Soil boring logs indicate that the soil beneath the site consists predominantly of silt and clay with an apparently continuous coarse-grained unit 2 to 8 feet thick encountered between approximately 8 and 20 feet bgs. Fill material was encountered in the boring for well SVE3 (located in the former UST pit) to approximately 7 feet bgs. CPT borings indicate the presence of predominantly silt and clay between approximately 20 and 60 feet bgs, the maximum depth explored. Coarse-grained layers up to 3 feet thick are interbedded with the silt and clay (EC&A, 2008; Cardno ERI, 2011; Cardno ERI, 2012a).

Historical groundwater elevation data indicate that DTW ranges from 5 to 11 feet bgs beneath the site with varying groundwater flow directions. The distribution of dissolved-phase hydrocarbons suggests that the dominant groundwater flow direction is west to southwest (Cardno ERI, 2014b).

PREVIOUS WORK

Cumulative groundwater monitoring and sampling data are summarized in Tables 1A and 1B. Well construction details are presented in Table 2. Cumulative soil analytical results are summarized in Tables 3A and 3B. Cumulative soil vapor analytical results are summarized in Table 4. A tabular site conceptual model for the site detailing additional site information is included as Appendix B.

Fueling System Activities

In 1983, one used-oil UST and four gasoline USTs were removed and the resulting tank cavity was backfilled with sand and compacted to 90% (City of Albany, 1983).

Site Assessment Activities

Six exploratory borings (B1 through B6) were advanced on site in 2008. Maximum residual concentrations of TPHg, TPHd, and benzene were reported in the soil samples collected at 10.5 feet bgs from borings B1 and B2, located near the former USTs. Maximum dissolved-phase TPHg, TPHd, and benzene concentrations were also reported in the samples collected from soil borings B1 and B2, and the laboratory reported an immiscible sheen in the samples (EC&A, 2008).

Monitoring wells MW1 through MW6 and borings CPT1/HP1 and CPT2/HP2 were installed on site in 2010. Maximum residual concentrations of TPHg and TPHd in soil were reported in samples collected at 10.5 feet bgs from borings MW3 and MW5, located west of the former USTs. Dissolved-phase hydrocarbons were adequately delineated vertically at the site with petroleum hydrocarbon concentrations near or below laboratory reporting limits in groundwater samples collected deeper than 27.5 feet bgs (Cardno ERI, 2011).

In January 2012, Cardno ERI installed SVE wells SVE1 through SVE3, AS well AS1, and monitoring well MW3A to be used during feasibility testing (Cardno ERI, 2012a).

In February and March 2014, Cardno ERI installed soil vapor wells SVS1 through SVS3 at the site and advanced on-site and off-site borings B7 through B17 (Cardno ERI, 2014a).

Remediation Activities

According to City of Albany (City) permit number 82-0708, the USTs were removed and the resulting excavation backfilled in 1983 (City of Albany, 1983). It is unknown if over-excavation was performed during UST removal.

Between January 31 and February 1, 2012, Cardno ERI conducted three 4-hour feasibility tests: a DPE only test, a combined AS and DPE test, and an AS only test. Approximately 93 pounds of TPHg and 0.09 pound of benzene were removed during feasibility testing (Cardno ERI, 2012b).

Groundwater Monitoring Activities

Groundwater monitoring began at the site in 2010 following the installation of wells MW1 through MW6. Maximum concentrations are present in wells MW3 and MW4, located west of the former USTs. In 2008, the laboratory reported an immiscible sheen in the samples collected from soil borings B1 and B2 (EC&A, 2008). Neither NAPL nor sheen have been observed in the groundwater monitoring wells at the site.

During fourth quarter 2012, concentrations of TPHg (270,000 μ g/L) reported in well MW4 were potentially indicative of the presence of NAPL. To date, NAPL has not been observed in the well, and concentrations of TPHg reported in well MW4 during the second quarter 2013 (16,000 μ g/L) and fourth quarter 2013 (13,000 μ g/L) sampling events were consistent with historical results (Cardno ERI, 2014b). The fourth quarter 2012 TPHd result for well MW4 appears to have been anomalous.

Soil Vapor Monitoring Activities

Soil vapor monitoring began with the installation and sampling of wells SVS1 through SVS3 in first quarter 2014. Vapor-phase TPHg ranged from 150,000,000 micrograms per cubic meter ($\mu g/m^3$) to 190,000,000 $\mu g/m^3$. Vapor-phase benzene was reported at a maximum of 22,000 $\mu g/m^3$ in well SVS3 (Cardno ERI, 2014a).

SOIL VAPOR ASSESSMENT

On August 28, 2014, Cardno ERI collected soil vapor samples from soil vapor wells SVS1 through SVS3 using a custom-made purging manifold consisting of airtight valves, a flow regulator, pressure and vacuum gauges, and a vacuum pump capable of producing a vacuum of approximately 30 inches of mercury (in Hg). The manifold also includes a port that connects sample collection vessels (SummaTM canisters). A duplicate sample was collected from well SVS2. Field work was conducted in accordance with the protocol included in Appendix C. Field data sheets are included in Appendix D.

Prior to purging and sampling, the manifold was connected to each well, and the tubing and fittings downstream from the wellhead valves were vacuum tested at approximately 25 to 30 in Hg. The sampling manifold and tubing held the applied vacuum for five minutes at each well.

Prior to sampling, a helium leak test was performed at each well, including a Summa™ canister and its fittings, to check for leaks in the annulus. To assess the potential for leaks in the well annulus, a shroud was placed over the well and Summa™ canister, in accordance with Department of Toxic Substances Control (DTSC) guidance (DTSC, 2012), and helium was introduced into the shroud and maintained at a constant concentration. Helium screening was performed in the field by drawing soil gas into a Tedlar bag via a lung-box and screening the contents of the Tedlar bag with a helium meter. The concentration of helium in the sample divided by the concentration of helium in the shroud provides a measure of the proportion of the sample attributable to leakage. A leak that comprises less than 5% of the sample is insignificant. Helium screening was also performed using laboratory analysis of the contents of the Summa™ canister collected under the shroud. Sampling was conducted at approximately the same rate of purging, at 100 to 200 milliliters per minute.

The soil vapor samples were submitted to a California state-certified laboratory under COC protocol. Laboratory analytical reports are included in Appendix E. Laboratory analytical results and methods are summarized in Table 4.

FOUNDATION ASSESSMENT

The ACEH requested a foundation analysis in correspondence dated July 7, 2014 (Appendix A). To evaluate building construction, Cardno ERI performed a site visit and visited City offices to review available files for the building at and adjacent to the subject site.

The site building plans reviewed at the City indicate that the building is constructed with a 4-inch concrete slab. Observations at the site are consistent with the building being constructed with a slab on top of grade, as evidenced by the step-up required to enter the building being approximately 4 inches, the slab thickness.

There were no building plans available for the neighboring residential buildings, which appear to have been constructed in the early 1940s based on local real estate listings. Based on the site visit and external views of the buildings, the adjacent residential buildings appear to have two stories with a minor subfloor area in the central portion of the building. The buildings appear to have two stories on the outer portion above the ground floor garage with an offset single story in the center of the building raised above a small ground level "crawl space."

The Advisory, Active Soil Gas Investigations (DTSC, 2012) provides recommendations for appropriate sample depth for soil vapor assessments. The recommendation is that sample probes should not be installed within or below the capillary fringe. Since 2010, the DTW has fluctuated between 5.29 and 11.03 feet at the site (Table 1A). During the most recent groundwater monitoring event (Cardno ERI, 2014b), the DTW ranged from 6.25 to 9.63 feet (Table 1A). The soil vapor wells at the site are screened from 5.4 to 5.6 feet bgs. In Cardno ERI's opinion, the wells are screened to an appropriate depth considering the DTW and building construction. The wells likely could not be installed any deeper and still permit the collection of representative samples.

RESULTS AND DATA EVALUATION

Cardno ERI installed soil vapor sampling wells SVS1 through SVS3 to assess vapor-phase concentrations near the buildings at and adjacent to the site to evaluate the Media-Specific Criteria for Vapor Intrusion to Indoor Air (Scenario 4) outlined in the *Low-Threat Underground Storage Tank Case Closure Policy* (Low-Threat Policy) (SWRCB, 2012). Cumulative soil vapor analytical results are summarized in Table 4 and select results from the current investigation are illustrated on Plate 2.

Concentrations of petroleum hydrocarbons exceeded ESLs in each of the soil vapor samples collected during the current investigation. Concentrations of TPHg and benzene were up to two to three orders of magnitude greater than the commercial and residential ESLs, respectively, with TPHg concentrations ranging up to 90,000,000 µg/m³ (SVS1) and benzene concentrations ranging up to 21,000 µg/m³ (SVS3). Concentrations of and/or reporting limits for benzene, ethylbenzene, and naphthalene were above both the residential and commercial soil gas criteria outlined in the Low-Threat Policy for sites with no bio-attenuation zone, but were less than the criteria for residential land use with a bio-attenuation zone. The reported oxygen concentrations ranged from 2.49% to 5.54%.

SITE CONCEPTUAL MODEL

Based on historical data and the results of the current investigation, Cardno ERI updated the tabular site conceptual model for the site (Appendix B).

CONCLUSIONS AND RECOMMENDATIONS

Soil vapor concentrations exceed select ESLs and Low-Threat Policy criteria. After the fourth quarter 2014 groundwater monitoring and sampling event and the installation and sampling of the previously-proposed off-site monitoring wells, Cardno ERI recommends preparing the feasibility study/corrective action plan (FS/CAP), as detailed in the *Response To Comments and Request For Extension* (Cardno ERI, 2014c).

CONTACT INFORMATION

The responsible party contact is Ms. Jennifer C. Sedlachek, ExxonMobil Environmental Services Company, 4096 Piedmont Avenue #194, Oakland, California, 94611. The consultant contact is Mr. Greg Gurss, Cardno ERI, 601 North McDowell Boulevard, Petaluma, California, 94954. The agency contact is Mr. Mark Detterman, Alameda County Health Care Services Agency, Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502-6577.

LIMITATIONS

For documents cited that were not generated by Cardno ERI, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno ERI does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

October 7, 2014

Cardno ERI 2735C.R07 Former Exxon Service Station 79374, Albany, California

Please contact Mr. Greg Gurss, Cardno ERI's project manager for this site, at greg.gurss@cardno.com or at (916) 692-3130 with any questions or comments regarding this report.

Sincerely,

Christine M. Capwell
Senior Technical Editor

for Cardno ERI

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Enclosures:

References

Acronym List

Plate 1 Site Vicinity Map

Plate 2 Select Soil Vapor Analytical Results

Table 1A Cumulative Groundwater Monitoring and Sampling Data

Table 1B Additional Cumulative Groundwater Monitoring and Sampling Data

Table 2 Well Construction Details

Table 3A Cumulative Soil Analytical Results

Table 3B Additional Cumulative Soil Analytical Results – HVOCs and PAHs

Table 4 Cumulative Soil Vapor Analytical Results

Appendix A Correspondence

Appendix B Site Conceptual Model

Appendix C Field Protocol

Appendix D Field Data Sheets

Appendix E Laboratory Analytical Reports

Cardno ERI 2735C.R07 Former Exxon Service Station 79374, Albany, California

cc: Mr. Mark Detterman, Alameda County Health Care Services Agency, Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502-6577

Ms. Muriel T. Blank, Trustee, The Blank Family Trusts, 1164 Solano Avenue, #406, Albany, California, 94706

Reverend Deborah Blank, Trustee, The Blank Family Trusts, 1563 Solano Avenue, #344, Berkeley, California, 94707

Ms. Marcia Blank Kelly, Trustee, The Blank Family Trusts, 641 SW Morningside Road, Topeka, Kansas, 66606

REFERENCES

California Regional Water Quality Control Board San Francisco Bay Region Groundwater Committee (CRWQCB). June 1999. East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA.

Cardno ERI. February 28, 2011. Site Assessment Report, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

Cardno ERI. April 12, 2012a. Well Installation Report, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

Cardno ERI. April 12, 2012b. Air Sparge and Dual-Phase Extraction and Feasibility Testing, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

Cardno ERI. May 2, 2014a. Soil, Soil Vapor, and Groundwater Investigation Report and Site Conceptual Model, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

Cardno ERI. July 18, 2014b. Groundwater Monitoring Report, First and Second Quarter 2014, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

Cardno ERI. September 5, 2014c. Response To Comments and Request For Extension, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.

City of Albany. March 28, 1983. Building Permit 82-0708.

Department of Toxic Substances Control of the California EPA, Department of Toxic Substances Control, California Regional Water Quality Control Board, Los Angeles Region and San Francisco Region (DTSC). April 2012. *Advisory – Active Soil Gas Investigations*.

Edd Clark & Associates (EC&A). January 31, 2008. Report of Phase II Environmental Assessment, 990 San Pablo Avenue, Albany, California 94706. EC&A Project No 0589,002.07.

Environmental Data Resources Inc (EDR). December 1, 2009a. The EDR-City Directory Abstract, 990 San Pablo Avenue, Albany, CA 94706. Inquiry Number: 2648519.6.

October 7, 2014 Cardno ERI 2735C.R07 Former Exxon Service Station 79374, Albany, California

Environmental Data Resources Inc. (EDR). December 1, 2009b. Certified Sanborn® Map Report, 990 San Pablo Avenue, Albany, CA 94706. Inquiry Number: 2648519.36.

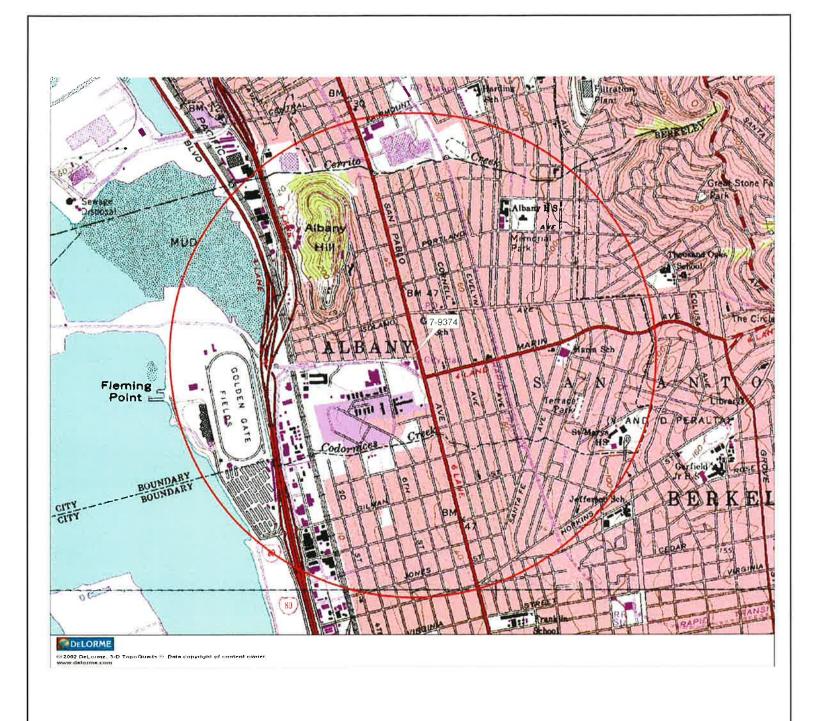
Graymer, R.W. 2000. Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California. USGS, Miscellaneous Field Studies MF-2342.

Hickenbottom, Kelvin and Muir, Kenneth S. June 1988. *Geohydrogeology and Groundwater Quality Overview of the East Bay Plain Area, Alameda County, CA. Alameda County Flood Control and Water Conservation District.* 83p.

State Water Resource Control Board (SWRCB). August 17, 2014. Low-Threat Underground Storage Tank Case Closure Policy.

ACRONYM LIST

ACRONT	IVI LIST		
μg/L	Micrograms per liter	NEPA	National Environmental Policy Act
μs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction potential
bgs	Below ground surface	OSHA	Occupational Safety and Health Administration
BTEX	Benzene, toluene, ethylbenzene, and total xylenes	OVA	Organic vapor analyzer
CEQA	California Environmental Quality Act	P&ID	Process & Instrumentation Diagram
cfm	Cubic feet per minute	PAH	Polycyclic aromatic hydrocarbon
COC	Chain of Custody	PCB	Polychlorinated biphenyl
CPT	Cone Penetration (Penetrometer) Test	PCE	Tetrachloroethene or perchloroethylene
DIPE	Di-isopropyl ether	PID	Photo-ionization detector
DO	Dissolved oxygen	PLC	Programmable logic control
DOT	Department of Transportation	POTW	Publicly owned treatment works
DPE	Dual-phase extraction	ppmv	Parts per million by volume
DTW	Depth to water	PQL	Practical quantitation limit
EDB	1,2-dibromoethane	psi	Pounds per square inch
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
ESL	Environmental screening level	QA/QC	Quality assurance/quality control
ETBE	Ethyl tertiary butyl ether	RBSL	Risk-based screening levels
FID	Flame-ionization detector	RCRA	Resource Conservation and Recovery Act
fpm	Feet per minute	RL	Reporting limit
ĠAC	Granular activated carbon	scfm	Standard cubic feet per minute
gpd	Gallons per day	SSTL	Site-specific target level
gpm	Gallons per minute	STLC	Soluble threshold limit concentration
GWPTS	Groundwater pump and treat system	SVE	Soil vapor extraction
HVOC	Halogenated volatile organic compound	SVOC	Semivolatile organic compound
J	Estimated value between MDL and PQL (RL)	TAME	Tertiary amyl methyl ether
LEL	Lower explosive limit	TBA	Tertiary butyl alcohol
LPC	Liquid-phase carbon	TCE	Trichloroethene
LRP	Liquid-ring pump	TOC	Top of well casing elevation; datum is msl
LUFT	Leaking underground fuel tank	TOG	Total oil and grease
LUST	Leaking underground storage tank	TPHd	Total petroleum hydrocarbons as diesel
MCL	Maximum contaminant level	TPHg	Total petroleum hydrocarbons as gasoline
MDL	Method detection limit	TPHmo	Total petroleum hydrocarbons as motor oil
mg/kg	Milligrams per kilogram	TPHs	Total petroleum hydrocarbons as stoddard solvent
mg/L	Milligrams per liter	TRPH	Total recoverable petroleum hydrocarbons
mg/m³	Milligrams per cubic meter	UCL	Upper confidence level
MPE	Multi-phase extraction	USCS	Unified Soil Classification System
MRL	Method reporting limit	USGS	United States Geologic Survey
msl	Mean sea level	UST	Underground storage tank
MTBE	Methyl tertiary butyl ether	VCP	Voluntary Cleanup Program
MTCA	Model Toxics Control Act	VOC	Volatile organic compound
NAI	Natural attenuation indicators	VPC	Vapor-phase carbon
NAPL	Non-aqueous phase liquid		

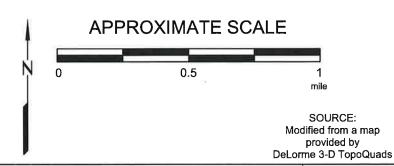


FN 2735 TOPO

EXPLANATION



1/2-mile radius circle



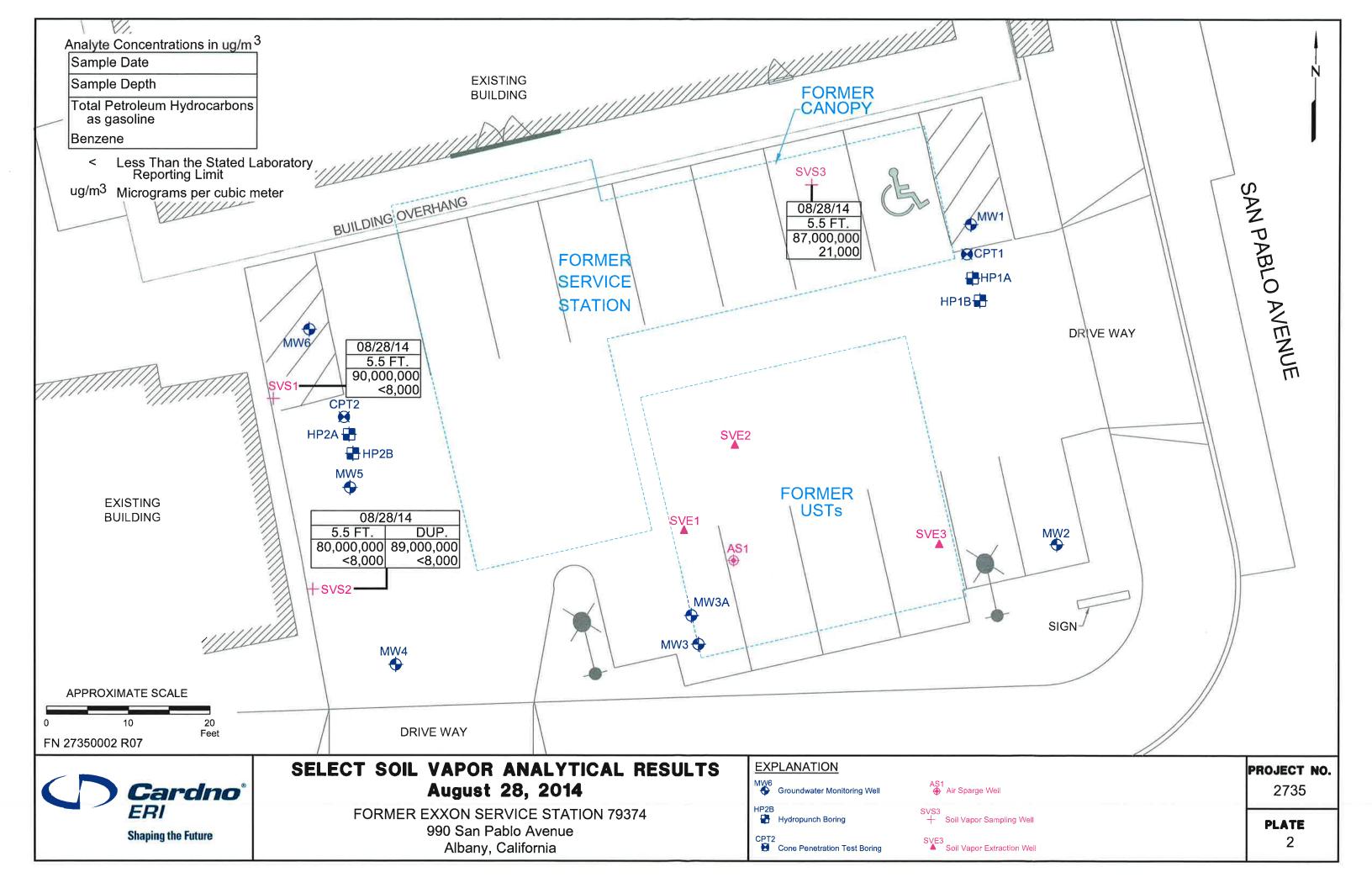


SITE VICINITY MAP

FORMER EXXON SERVICE STATION 79374 990 San Pablo Avenue Albany, California PROJECT NO. 2735

PLATE

1



								Albany, Ca							
Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev.	NAPL (feet)	O&G (µg/L)	TPHmo (μg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Ionitoring V	Well Samples														
/W1	11/04/10		Well insta	alled.											
/W1	12/01/10	<u> </u>	41.45	Well sur	veyed.										
√lW1	12/16/10	474-4	41.45	9.18	32.27	No		<250	71a	54	< 0.50	1.4	0.65	0.58	1.6
/W1	01/31/11	***	41.45	8.78	32.67	No		<250	<50	<50	< 0.50	<0.50	<0.50	<0.50	< 0.50
/W1	04/07/11		41.45	8.45	33.00	No		<250	65a	160a	< 0.50	2.9	0.92	< 0.50	1.7
/W1	07/18/11	-	41.45	9.49	31.96	No		<250	<50	63a	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
/W1	10/13/11		41.45	9.86	31.59	No		<250	54	<50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50
/W1	04/06/12		41.45	8.11	33.34	No		<250	130	130	< 0.50	2.1	< 0.50	<0.50	< 0.50
/W1	10/19/12		41.45	10.42	31.03	No		<250	<50	<50	< 0.50	0.51	2.2	< 0.50	0.65
/IW1	06/11/13	999	41.45	10.48	30.97	No		<250	<50	<50	<0.50	<0.50	<0.50	<0.50	< 0.50
/W1	12/19/13	222	41.45	10.67	30.78	No		<250	<50	<50	< 0.50	< 0.50	1.3	< 0.50	0.53
лW1	04/03/14		44.19			ed to NA\	/D88.								
иW1	04/30/14		44.19	9.49	34.70	No									
/W1	05/01/14	***	44.19					<240	<48	<50	<0.50	<0.50	<0.50	<0.50	<0.50
IW2	11/04/10	2245	Well insta	alled.											
1W2	12/01/10	544	41.25	Well sur	veyed.										
1W2	12/16/10		41.25	8.11	33.14	No		<250	110a	<50	<0.50	<0.50	< 0.50	<0.50	< 0.50
/IW2	01/31/11		41.25	9.29	31.96	No		<250	<50	<50	<0.50	<0.50	< 0.50	< 0.50	< 0.50
IW2	04/07/11		41.25	8.21	33.04	No		<250	<50	<50	0.51	<0.50	< 0.50	< 0.50	< 0.50
/IW2	07/18/11	***	41.25	9.52	31.73	No		<250	<50	54a	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
/IW2	10/13/11	***	41.25	9.56	31.69	No		<250	98	75a	< 0.50	< 0.50	< 0.50	<0.50	< 0.50
/IW2	04/06/12	***	41.25	8.68	32.57	No		<250	60	68	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
/IW2	10/19/12	***	41.25	11.03	30.22	No		<250	<50	59a	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
/IW2	06/11/13		41.25	10.67	30.58	No		<250	<50	<50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
/W2	12/19/13		41.25	10.77	30.48	No		<250	<50	<50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
ЛW2	04/03/14	****	43.99	Elevatio	n convert	ed to NA	/D88.								
IW2	04/30/14		43.99	9.63	34.36	No		-							
IW2	05/01/14		43.99					<240	<48	53a	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	11/08/10		Well insta												
NW3	12/01/10	3 44 0	40.42	Well sur											
/W3	12/16/10	***	40.42	8.18	32.24	No	*****	<250	2,900a	19,000	<12	350	130	940	290
MW3	01/31/11		40.42	7.64	32.78	No	7770	390	2,800a	17,000a	<12	540	140	700	270
MW3	04/07/11	3555	40.42	5.88	34.54	No	7777 /1	<250	2,700a	14,000	<10	600	150	780	230
/IW3	07/18/11	-	40.42	8.31	32.11	No		<250	1,700a	19,000	<10	650	140	660	220
/W3	10/13/11		40.42	8.76	31.66	No		<250	1,900a	16,000	<10	520	150	900	270
/W3	04/06/12	***	40.42	8.13	32.29	No		<250	3,200a	18,000	<20	300	120	1,100	180
MW3	10/19/12		40.42	9.37	31.05	No		<250	1,700a	11,000a	<10	380	120	740	150
MW3	06/11/13		40.42	9.48	30.94	No		<250	2,700a	17,000	<10	270	110	990	140
MW3	12/19/13		40.42	10.00	30.42	No		***		S 200			3444	***	***

								Albany, Ca	ilifornia						
Well ID	Sampling		TOC Elev		GW	NAPL (fact)	0&G	TPHmo	TPHd	TPHg	MTBE	B (ug/L)	T (ug/L)	E (ug/L)	(ug/L)
	Date	(feet)	(feet)	(feet)	Elev.	(feet)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)
MW3	12/20/13	-	40.42					<250	2,000a	16,000	<10	310	120	710	120
MW3	04/03/14		43.16		n convert										
MW3	04/30/14	(655)	43.16	9.17	33.99	No			2.400-	40.000	-40	220	110	4 400	 170
MW3	05/01/14	1000	43.16					<240	3,100a	18,000	<10	230	110	1,100	170
MW3A	01/18/12		Well inst	alled.											
MW3A	02/06/12	-	40.68	Well sur	veyed.										
MW3A	04/06/12	HHH.	40.68	6.02	34.66	No		<250	170a	1,300	<2.0	41	7.5	140	38
MW3A	10/19/12	H10	40.68	10.44	30.24	No		<250	860a	4,400a	<5.0	390	59	410	82
MW3A	06/11/13		40.68	9.75	30.93	No		<250	160a	1,100	<2.0	99	14	110	3.6
MW3A	12/19/13		40.68	10.05	30.63	No		<250	270a	1,800	<2.0	150	18	65	4.7
MW3A	04/03/14		43.42	Elevatio	n convert	ed to NA'	VD88.								
MW3A	04/30/14	: 	43.42	7.55	35.87	No			!!!! ?		-				
MW3A	05/01/14		43.42					<240	<48	130a	<0.50	7.0	1.2	7.4	1.3
MW4	11/05/10		Well inst	alled											
MW4	12/01/10		39.30	Well su	rveved.										
MW4	12/16/10	:===:	39.30	6.10	33.20	No		<250	2,000a	9,900	<5.0	440	40	170	380
MW4	01/31/11	-	39.30	6.84	32.46	No	***	260	3,900a	13,000	<10	500	59	320	740
MW4	04/07/11		39.30	5.29	34.01	No		<250	1,900a	9,600	<10	530	59	250	340
MW4	07/18/11		39.30	7.36	31.94	No		<250	2,800a	14,000	<10	570	66	320	510
MW4	10/13/11	-	39.30	7.83	31.47	No		320	7,200a	14,000	<10	350	43	340	690
MW4	04/06/12	1575	39.30	6.21	33.09	No		<250	1,800a	9,100a	<10	380	40	220	410
MW4	10/19/12	A	39.30	10.64	28.66	No	***	1,400a	20,000a	270,000	<10	440	88	2,100	3,800
MW4	03/06/13		39.30	8.02	31.28	No		V <u></u>							
MW4	06/11/13		39.30	9.05	30.25	No		<250	3,400a	16,000	<10	430	48	520	820
MW4	12/19/13	-	39.30	8.95	30.35	No	222	-			55327				
MW4	12/20/13		39.30					<250	2,800a	13,000	<10	590	41	430	530
MW4	03/05/14		39.30			No				(244)	***			###)	
MW4	04/03/14		42.04	Elevation	n convert	ed to NA	VD88.								
MW4	04/30/14		42.04	6.25	35.79	No					***				
MW4	05/01/14	-	42.04					<240	3,000a	13,000	<10	520	46	310	340
MW5	11/11/10	1	Well ins	talled.											
MW5	12/01/10	-	40.38	Well su	rveved.										
MW5	12/16/10	322	40.38	7.69	32.69	No	444	<250	1,100a	6,200	<2.5	150	96	270	980
MW5	01/31/11	-	40.38	8.00	32.38	No		270	4,600a	15,000	<10	520	310	1,100	2,500
MW5	04/07/11		40.38	6.73	33.65	No	1242	<250	610a	2,500	<2.5	61	32	180	390
MW5	07/18/11		40.38	7.63	32.75	No		<250	2,000a	11,000	<2.5	340	160	990	1,800
MW5	10/13/11	-	40.38	9.31	31.07	No	-	660	7,600a	23,000	<20	390	160	1,200	3,100
MW5	04/06/12		40.38	6.77	33.61	No	-	<250	880a	6,000a	<5.0	62	17	360	680
MW5	10/19/12		40.38	10.64	29.74	No		280a	2,100a	15,000	<20	580	63	950	1,400
MW5	06/11/13		40.38	10.04	30.32	No	: 	<250	2,700a	13,000	<20	540	36	930	1,200
	12/19/13		40.38	9.85	30.53	No			2,7000	10,000					
MW5	12/19/13	-	40.38	ყ.00	30.33	140	5555	-		1,	====V	07.77		555	

Well ID	Sampling Date	Depth (feet)	TOC Elev (feet)	. DTW (feet)	GW Elev.	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)
MW5	12/20/13		40.38		-	((-3/	<250	2,100a	21,000	<20	370	36	1,500	1,400
MW5	04/03/14		43.12			ed to NA		200	2,.000	21,000		0.0		.,	,,,,,,
MW5	04/30/14		43.12	7.51	35.61	No					7. 211.0 :	:		-	
			43.12	7.51				<240	2,000a	10,000	<10	170	10	600	510
MW5	05/01/14		43.12					~240	2,000a	10,000	110	110		000	0.0
MW6	11/03/10	-	Well insta	alled.											
MW6	12/01/10	<u> 1850</u> 00	41.06	Well sur	veyed.										
MW6	12/16/10	222	41.06	8.55	32.51	No		<250	110a	1,700	<0.50	2.8	1.2	61	46
MW6	01/31/11	-	41.06	8.52	32.54	No		<250	800a	2,000a	<1.0	6.0	<1.0	30	24
MW6	04/07/11		41.06	7.78	33.28	No		<250	660a	2,000	<0.50	10	1.0	20	19
MW6	07/18/11	-	41.06	9.27	31.79	No		<250	350a	1,000a	<0.50	2.5	< 0.50	3.8	3.5
MW6	10/13/11		41.06	10.21	30.85	No		<250	370a	890a	<0.50	2.8	< 0.50	7.9	5.5
MW6	04/06/12	-	41.06	7.19	33.87	No		<250	440a	1,400a	< 0.50	2.4	< 0.50	13	15
MW6	10/19/12	-	41.06	11.36	29.70	No		<250	99a	510a	< 0.50	4.2	1.6	8.0	7.0
MW6	06/11/13		41.06	10.81	30.25	No		<250	150a	500	< 0.50	< 0.50	< 0.50	2.4	1.1
MW6	12/19/13	(244)	41.06	10.78	30.28	No		<250	68a	440	<0.50	< 0.50	< 0.50	2.3	0.87
MW6	04/03/14		43.80			ted to NA									
MW6	04/30/14		43.80	8.23	35.57	No		(444)	2. 510		(1 170)		nor /		
MW6	05/01/14		43.80	0.23				<240	450a	1,500	<0.50	2.8	0.57	13	4.8
MAAO	03/01/14	Andrew .	45.00							.,					
AS1	01/18/12		Well inst	alled.											
AS1	10/19/12	-		10.32	***	No		· ***	2		S -010		***	***	A
AS1	06/11/13	***		9.82	***	No	***	SHE		***	Seen	-			1.555
AS1	12/19/13			10.12	***	No	***	(200		****	12.00	-	######################################		V. 1000
AS1	04/30/14			7.95	***	No	***	5 46.	1000	555 6	4- 815				
SVE1	01/17/12		Well inst	alled.											
SVE1	02/06/12	-	40.58	Well su	rveved.										
SVE1	10/19/12	-	40.58	10.21	30.37	No									
SVE1	06/11/13	-	40.58	9.63	30.95	No								***	
SVE1	12/19/13	***	40.58	9.89	30.69	No						-505		**************************************	
	04/03/14		43.32			ted to NA									
SVE1	04/03/14		43.32	7.70	35.62	No		-	***						
SVEI	04/30/14		43.32	7.70	33.02	140									
SVE2	01/17/12		Well inst	alled.											
SVE2	02/06/12		40.94	Well su	rveyed.										
SVE2	10/19/12		40.94	10.48	30.46	No		***	9990	***	***	(414)	****	****	155 3
SVE2	06/11/13		40.94	9.94	31.00	No			2101 2		****	-		5755 5	555 23
SVE2	12/19/13	: === :	40.94	10.20	30.74	No		19 -114		500	575 2				
SVE2	04/03/14		43.68			ted to NA	VD88.								
SVE2	04/30/14	(***)	43.68	8.09	35.59	No		S ee			777			***	
SVE3	01/17/12		Well inst	alled											
SVE3	02/06/12		40.93	Well su	neved										
			40.93	10.39		No			-						 -
SVE3	10/19/12	****	40.93	10.39	30.34	INU		115-815		205	9736	3882		325	Page 2 of 6

Δ	lhanv	Califor	mia	

Well ID	Sampling Date	Depth (feet)	TOC Elev (feet)	. DTW (feet)	GW Elev	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (μg/L)	MTBE (µg/L)	B (µg/L)	Τ (μg/L)	E (μg/L)	Χ (μg/L)
SVE3	06/11/13	1666	40.93	9.65	31.28	No				1999			0.555		***
SVE3	12/19/13		40.93	10.31	30.62	No		****		1),	(555)				•••
SVE3	04/03/14		43.67			ted to NA	/D88.								
SVE3	04/30/14	***	43.67	7.79	35.88	No		###d) - 11 -	****	***	0	•••	
Grab Groundw	ater Samples														
B-1W	01/06/08		557	-	(-	26r,s	<5,000	99,000o,n,r	76,000m,p,r	<50	<50	93	3,100	9,600
B-2W	01/06/08	***	***	***	Section	\ 	-	310s	23,000o,r,s	77,000 l,r,s	<50	1,500	300	2,000	6,800
B-3W	01/06/08		<u> 445</u> 2	224)		-		<250s	2,000o,s	6,200 l,s	<10	170	32	740	250
B-4W	01/06/08			-	÷	-	0220	<250s	3,100o,s	7,700 l,s	<10	360	<10	240	20
B-5W	01/06/08	***	2000 2	(100)	5948	S		<250s	120o,s	120q,s	<0.5	<0.5	<0.5	<0.5	<0.5
B-6W	01/06/08	222	***			R eise	***	<250s	830o,s	1,700 l,s	<2.5	5.2	<2.5	100	8.6
DR-W	01/06/08		-			72.00		<250	960	730m,p	<0.5	<0.5	<0.5	6.9	14
W-27.5-HP1A	10/28/10	27.5	***			Sann		260	330a	63a	<0.50	<0.50	<0.50	<0.50	<0.50
W-36-HP1A	10/28/10	36	***		****	(200	200	<250	220a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-46.5-HP1A	10/28/10	46.5	****			1175		<420	<83	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-59-HP1B	10/27/10	59	***	-		D 111		<250	130	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-27.5-HP2A	10/29/10	27.5	***		-			<250	100a	340	<0.50	1.7	2.1	20	46
W-52-HP2A	10/29/10	52						<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-60.5-HP2B	10/27/10	60.5					777	<250	62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-10-SVE1-2	01/31/12	10		: ::::: ::::	****	***		890a	1,500a	1,400	<1.0	46	2.0	24	23
W-10-SVE1-1	01/31/12	10		***		****	100 0	990a	1,900a	2,000	<2.0	87	2.1	13	23
W-5-B7	02/27/14	5		(202)		2443.	(1904))	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-12-B8	02/28/14	12	•••					<240	130a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-5-B9	02/27/14	5	: 555 5	i ens i	===			<310	370a	1,400a	<0.50	<0.50	<0.50	<0.50	<0.50
W-5.5-B10	02/27/14	5.5		***			***	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-14-B11	03/05/14	14	1		•••	-	2220	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-10-B12	02/26/14	10				 0	-	<250	800a	5,900	<2.0	<2.0	<2.0	7.5	<2.0
W-10-B13	02/28/14	10						<250	1,500a	6,300	<5.0	12	8.8	290	22

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Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev.	NAPL (feet)	O&G (µg/L)	TPHmo (μg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	Χ (μg/L)
B14	03/05/14 t	1938					(<u>144</u> 2)								
W-14-B15	03/05/14	14	-		-			<310	<62	<50	1.3	<0.50	<0.50	<0.50	<0.50
W-14-B16	02/26/14	14		lees.	S		13 00/1 1	<250	180a	170a	<0.50	1.1	<0.50	5.4	<0.50
W-10-B17	02/27/14	10						<270	<54	110a	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1A

		Albany, California
Notes:		
TOC	=	Top of well casing elevation; datum is NAVD88, prior to April 2014, datum was mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is NAVD88, prior to April 2014, datum was mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	=	Non-aqueous phase liquid.
O&G	=	Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Add'l VOCs	=	Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
μg/L	=	Micrograms per liter.
ND	=	Not detected at or above laboratory reporting limits.
200	=	Not measured/Not sampled/Not analyzed.
<	=	Less than the stated laboratory reporting limit.
а	=	The chromatographic pattern does not match that of the specified standard.
b	=	n-butylbenzene.
С	=	sec-butylbenzene.
d	=	Isopropylbenzene.
е	=	n-propylbenzene.
f	=	1,2,4-trimethylbenzene.
g	=	1,3,5-trimethylbenzene.
h	=	Naphthalene.
Ť	=	1-butanone.
f	=	1,2-dibromo-3-chloropropane.
k	=	2-methylnapthalene.
I	=	Unmodified or weakly modified gasoline is significant.
m	=	Heavier gasoline range compounds are significant.
n	=	Diesel range compounds are significant; no recognizable pattern.
0	=	Gasoline range compounds are significant.
р	=	No recognizable pattern.
q	=	Strongly aged gasoline or diesel compounds are significant.
r	=	Lighter than water immiscible sheen/product is present.
S	=	Liquid sample that contains greater than approximately 1 volume % sediment.
t	=	Groundwater did not enter boring, sample not collected.

						Albany, Ca				
Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (μg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (μg/L)	Add'l VOCs (μg/L)	Add'l SVOCs (µg/L)
Monitoring	y Well Samples									
/IW1	11/04/10		Well insta	illed.						
лW1	12/16/10	See	< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50	20	
лW1	01/31/11		< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50		1222
dW1	04/07/11		< 0.50	<0.50	<0.50	10	< 0.50	<0.50		0525
/IW1	07/18/11		< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50	<u>1112</u> ?	
/W1	10/13/11	-	< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50		500
1W1	04/06/12	11.	< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50	was:	
/IW1	10/19/12		< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50	www.	122
/W1	06/11/13		< 0.50	< 0.50	< 0.50	<5.0	< 0.50	<0.50	date)	****
/W1	12/19/13		< 0.50	<0.50	< 0.50	<5.0	< 0.50	<0.50	(222c)	
/IW1	05/01/14	\ 	<0.50	<0.50	<0.50	5.1	<0.50	<0.50	(MARKET)	
лW2	11/04/10	(452	Well insta	illed.						
/IW2	12/16/10	***	<0.50	< 0.50	< 0.50	<5.0	<0.50	<0.50		9 730
/IW2	01/31/11	***	< 0.50	< 0.50	< 0.50	<5.0	<0.50	<0.50		\
1W2	04/07/11	***	< 0.50	< 0.50	<0.50	<5.0	< 0.50	<0.50		1 122
IW2	07/18/11		< 0.50	< 0.50	< 0.50	<5.0	< 0.50	<0.50	-	(
1W2	10/13/11		< 0.50	< 0.50	< 0.50	<5.0	<0.50	<0.50	**	42/44
1W2	04/06/12		< 0.50	< 0.50	< 0.50	<5.0	<0.50	<0.50		
1W2	10/19/12		< 0.50	< 0.50	< 0.50	<5.0	< 0.50	<0.50	<u> </u>	
1W2	06/11/13	2017 .5	< 0.50	< 0.50	< 0.50	<5.0	< 0.50	<0.50		
/IW2	12/19/13	111 1	<0.50	< 0.50	< 0.50	<5.0	< 0.50	<0.50	9.3	
W2	05/01/14		<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	***	***
MW3	11/08/10	224 9	Well insta							
1W3	12/16/10	222)	<12	<12	<12	<120	<12	<12	3	777
1W3	01/31/11	\$2650	<12	<12	<12	<120	<12	<12		777E
1W3	04/07/11	9499C	<10	<10	<10	<100	<10	<10	,	124 .
MW3	07/18/11	****	<10	<10	<10	<100	<10	<10		700.50 to
/IW3	10/13/11	2000 :	<10	<10	<10	<100	<10	<10		700 C
/IVV3	04/06/12	****	<20	<20	<20	<200	<20	<20	 -)
NW3	10/19/12		<10	<10	<10	<100	<10	<10		<u> </u>
/IW3	06/11/13	577	<10	<10	<10	<100	<10	<10	-	
MW3	12/20/13	7777°	<10	<10	<10	<100	<10	<10	202	<u> </u>
AW3	05/01/14	1111 2	<10	<10	<10	<100	<10	<10		
MW3A	01/18/12		Well insta							
AEWN	04/06/12	-	<2.0	<2.0	<2.0	<20	<2.0	<2.0		500
AEWN	10/19/12	***	<5.0	<5.0	<5.0	<50	<5.0	<5.0	1 011 1	
MW3A	06/11/13		<2.0	<2.0	<2.0	<20	<2.0	<2.0	: 	===
MW3A	12/19/13		<2.0	<2.0	<2.0	<20	<2.0	<2.0	-	
MW3A	05/01/14		<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		

Mark	Well ID	Sampling	Depth	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Add'I VOCs	Add'l SVOCs
MW4							(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)
MW4	MW4	11/05/10	Receive	Well installe	ed.						
MM4				<5.0	<5.0	<5.0	<50	<5.0	<5.0	nto 8	
MW4	MW4		10 1112	<10	<10	<10	<100	<10	<10	######################################	1,555
MM4			C	<10	<10	<10	<100	<10	<10	ATES (1	-
MW4	MW4	07/18/11		<10	<10	<10	<100	<10	<10	70°	7 41-2
MW4	MW4	10/13/11	::	<10	<10	<10	<100	<10	<10	-	
MW4	MW4	04/06/12		<10	<10	<10			<10		
MW4	MW4	10/19/12	5 - 10 -	<10	<10	<10		<10	<10	***	0.000
MW6	MW4	06/11/13		<10	<10				<10	244	0.202
MW5	MW4	12/20/13	1000	<10	<10	<10			<10		V220
MW5	MW4	05/01/14	***	<10	<10	<10	<100	<10	<10		122
MW5 01/31/11 <10 <10 <10 <10 <10 <10 <10 <10	MW5	11/11/10		Well install	ed.						
MW5	MW5	12/16/10		<2.5		<2.5		<2.5	<2.5	***	:
MW5 07/18/11 <2.5	MW5										1900
MW5	MW5	04/07/11		<2.5			<25			***	1999
MW5 04/06/12 <0.50 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.	MW5	07/18/11		<2.5							***
MW5	MW5	10/13/11	222	<20						####X	
MW5 06/11/13	MW5	04/06/12	+++0		<5.0	<5.0				***	***
MW5 12/20/13 - <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20 <20<	MW5	10/19/12	-440							***	
MW5 05/01/14	MW5		***							-	
MW6 11/03/10 — Well installed. MW6 12/16/10 — <0.50 <0.50 <0.50 <5.0 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0	MW5		***	<20	<20					 -	***
MW6 12/16/10 - < <0.50	MW5	05/01/14	****	<10	<10	<10	<100	<10	<10		***
MW6 01/31/11 < 1.0		11/03/10									
MW6 04/07/11 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50	MW6	12/16/10	1111	<0.50							-
MW6 07/18/11 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0	MW6		11.02.0								(1000)
MW6 10/13/11 < 0.50	MW6	04/07/11									****
MW6 04/06/12 <0.50 <0.50 <0.50 <5.0 <0.50 <0.50 <0.50			222	<0.50						(616)	FREE.
MW6 10/19/12 <0.50 <0.50 <0.50 <5.0 <0.50 <0.50 <0.50 MW6 06/11/13 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 MW6 12/19/13 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 MW6 05/01/14 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 AS1 01/18/12 Well installed. SVE1 01/17/12 Well installed. SVE1 10/19/12 - Present Not sampled. SVE2 01/17/12 Well installed. SVE2 01/17/12 Well installed. SVE2 10/19/12 - Present Not sampled.	MW6		242 2							2000):	### S
MW6 06/11/13 <0.50 <0.50 <0.50 <5.0 <0.50 <0.50 <0.50										. 	2000 A
MW6 12/19/13 <0.50 <0.50 <0.50 <5.0 <0.50 <0.50 <0.50	MW6										5775
MW6 05/01/14 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50											
AS1											
AS1 10/19/12 - Present Not sampled. SVE1 01/17/12 Well installed. SVE1 10/19/12 - Present Not sampled. SVE2 01/17/12 Well installed. SVE2 10/19/12 - Present Not sampled.	MW6	05/01/14	***	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	- 275 :	
SVE1 01/17/12 Well installed. SVE1 10/19/12 - Present Not sampled. SVE2 01/17/12 Well installed. SVE2 10/19/12 - Present Not sampled.	AS1				ed.						
SVE1 10/19/12 - Present Not sampled. SVE2 01/17/12 Well installed. SVE2 10/19/12 - Present Not sampled.	AS1	10/19/12 - F	Present Not sa	mpled.							
SVE2 01/17/12 Well installed. SVE2 10/19/12 - Present Not sampled.	SVE1				ed.						
SVE2 10/19/12 - Present Not sampled.	SVE1	10/19/12 - F	Present Not sa	mpled.							
					ed.						
SVE3 01/17/12 Well installed.	SVE2	10/19/12 - F	Present Not sa	mpled.							
	SVE3	01/17/12		Well install	ed.						

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Add'l VOCs (μg/L)	Add'l SVOCs (μg/L)
SVE3		resent Not sar		(µg/L)	(µg/L)	(pg/L)	(P9/L)	(P9/L)	(P9/-)	(۲9,۲)
Grab Grour	ndwater Sample	es								
B-1W	01/06/08		<50	<50	<50	<200	<50	<50	210b, 68c, 370d, 1,100e, 3,800f, 1,300g, 1,500h	4,000h, 3,900k
3-2W	01/06/08		<50	<50	<50	<200	<50	<50	110b, 140e, 440f, 2,400g, 730h, 610i, 32j	200
B-3W	01/06/08		<10	<10	<10	<40	<10	<10	25b, 11c, 74d, 190e, 290f, 49g, 55i	
3-4W	01/06/08	1000	<10	<10	<10	<40	<10	<10	46b, 19c, 48d, 160e, 16f, 100h	
3-5W	01/06/08	200	ND	<0.5	<0.5	<2.0	<0.5	<0.5	2.6b, 0.83e, 4.8f, 1.2g, 6.5h	:=H=
3-6W	01/06/08	(mate)	<2.5	<2.5	<2.5	<10	<2.5	<2.5	14b, 5.6c, 17d, 60e, 32f, 5.8g, 38h, 10i	# 1000 mg
DR-W	01/06/08	222	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	6.9b, 2.4c, 2.5d, 11e, 17f, 5.5g, 7.0h	
W-27.5-HP1	1A 10/28/10	27.5	<0.50	<0.50	< 0.50	<5.0	<0.50	< 0.50	300	A 1000
N-36-HP1A	10/28/10	36	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	N -20 5	
V-46.5-HP	1A 10/28/10	46.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1 912	
N-59-HP1B	10/27/10	59	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	· ·	7-66-7
N-27.5-HP2	2A 10/29/10	27.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	19 300	-
N-52-HP2A	10/29/10	52	<0.50	<0.50	<0.50	<5.0	< 0.50	<0.50	N esa	505
N-60.5-HP2	2B 10/27/10	60.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	V259	(max
N-10-SVE1	-2 01/31/12	10	<1.0	<1.0	<1.0	57	<1.0	<1.0	1950	-
N-10-SVE1	-1 01/31/12	10	<2.0	<2.0	<2.0	62	<2.0	<2.0	, 	-
W-5-B7	02/27/14	5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	250	;
W-12-B8	02/28/14	12	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		-
W-5-B9	02/27/14	5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	===	-
W-5.5-B10	02/27/14	5.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		2555
W-14-B11	03/05/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		222
W-10-B12	02/26/14	10	<2.0	<2.0	<2.0	<20	<2.0	<2.0		i ana .
N-10-B13	02/28/14	10	<5.0	<5.0	<5.0	<50	<5.0	<5.0		222
W-14 - B15	03/05/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		8
W-14-B16	02/26/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	Size :	722
W-10-B17	02/27/14	10	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	100 2	3 770

TABLE 1B

ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA Former Exxon Service Station 79374 990 San Pablo Avenue

Albany, California

		Albany, California
Notes:		
TOC	=	Top of well casing elevation; datum is NAVD88, prior to April 2014, datum was mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is NAVD88, prior to April 2014, datum was mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	=	Non-aqueous phase liquid.
O&G	=	Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Add'I VOCs	=	Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
μg/L	=	Micrograms per liter.
ND	=	Not detected at or above laboratory reporting limits.
	=	Not measured/Not sampled/Not analyzed.
<	=	Less than the stated laboratory reporting limit.
а	=	The chromatographic pattern does not match that of the specified standard.
b	=	n-butylbenzene.
С	=	sec-butylbenzene.
d	=	Isopropylbenzene.
е	=	n-propylbenzene.
f	=	1,2,4-trimethylbenzene.
g	=	1,3,5-trimethylbenzene.
h	=	Naphthalene.
i	=	1-butanone.
j	=	1,2-dibromo-3-chloropropane.
k	=	2-methylnapthalene.
1	=	Unmodified or weakly modified gasoline is significant.
m	=	Heavier gasoline range compounds are significant.
n	=	Diesel range compounds are significant; no recognizable pattern.
0	=	Gasoline range compounds are significant.
р	=	No recognizable pattern.
q	=	Strongly aged gasoline or diesel compounds are significant.
r	=	Lighter than water immiscible sheen/product is present.
S	=	Liquid sample that contains greater than approximately 1 volume % sediment.
t	=	Groundwater did not enter boring, sample not collected.

TABLE 2
WELL CONSTRUCTION DETAILS
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Well Installation Date	TOC Elevation (feet)	Borehole Diameter (inches)	Total Depth of Boring (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Well Casing Material	Screened Interval (feet bgs)	Slot Size (inches)	Filter Pack Interval (feet bgs)	Filter Pack Material
MW1	11/04/10	44.19	8	17	17	2	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW2	11/04/10	43.99	8	17	17	4	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW3	11/08/10	43.16	8	17	17	4	Schedule 40 PVC	11-16	0.020	9-16	#3 Sand
MW3A	01/18/12	43.42	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
MW4	11/05/10	42.04	8	17	13	2	Schedule 40 PVC	8-13	0.020	6-13	#3 Sand
MW5	11/05/10	43.12	8	17	14	2	Schedule 40 PVC	9-14	0.020	7-14	#3 Sand
MW6	11/03/10	43.80	10	20	20	2	Schedule 40 PVC	15-20	0.020	13-20	#3 Sand
AS1	01/18/12	(700)	8	15.5	15.5	1	Schedule 80 PVC	10.25-13.5	#60 mesh	10.5-15.5	#2/12 Sand
SVE1	01/17/12	43.32	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
SVE2	01/17/12	43.68	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15	#2/12 Sand
SVE3	01/17/12	43.67	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
SVS1	02/25/14	(man)	4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand
SVS2	02/25/14		4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand
SVS3	02/25/14	1.55	4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand

Notes:

TOC = Top of well casing elevation; datum is NAVD88.

PVC Polyvinyl chloride.

= Feet below ground surface. feet bgs

TABLE 3A CUMULATIVE SOIL ANALYTICAL RESULTS

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 1 of 4)

Part																		Naph-		
Part	Sample	Sampling	Depth	TPHmo	TPHd	TPHg	MTBE	В	Т	E	Х	EDB	1,2-DCA	TBA	DIPE	ETBE	TAME	thalene	VOCs	Lead
Every content Security Secu	ID .	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Sallow (10 for the ph.) Commercial (Table 1-4)	Environmental Scr	reening Levels, Pot	ential Drinki	ng Water S	ource (Dec	ember 201	3)													
Page Color Description	Shallow (<10 feet by	gs), Residential (Tab	le A-1)		100	100	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045			***			•••	
Part	Shallow (<10 feet b	gs), Commercial (Ta	ble A-2)	***	110	500	0.023	0.044				0.00033	0.0045		2777	****			***	
Scale Scal	Deep (≥10 feet bgs)), Residential (Table	C-1)	7.775	110	500	0.023	0.044			10	0.00033			***				***	
B-1	Deep (≥10 feet bgs), Commercial (Table	C-2)		110	770	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	251	***	. ***	1.2	***	320
B-1																				
B-1	Soil Boring Sample																			
B-2	_ :													****	***		1000	(- 1	1577	1,000
B-2	B-1	01/06/08	10.5	<100	1,400b,c	7,200b,f	<5.0	2	51	110	400			***		***				***
B-2		24 100 100		-5.0	-4.0	-4.0	-0.0E	40 00E	<0.00E	-0.00E	<0.00E									
B-3 B-3 B-3 B-3 B-4 B-4 B-4 B-5 B-5 B-5 B-5 B-5 B-5 B-6 B-6 B-6 B-6 B-6 B-7 B-8 B-8 B-7 B-8					-									1.000		-	222	N25	1000	
B-3	B-2	01/06/08	10.5	<100	1,4000	4,5000,1	<5.0	13	33	100	300									
B-3	D 0	04/06/09	5.5	∠ 5.0	~10	~1 0	<0.50	<0.005	<0.005	<0.005	<0.005	7222	200	-	227	***				222
B-4 B-4 D106008 D105008 D10500						5,975														
B-6 B-6 O1106108 D-7	D-3	01/00/06	10.5	~5.0	550	1506,1	40.00	0.01	0.20	2.0	0.11									
B-6 B-6 O1106108 D106108 D1061	R_1	01/06/08	5.5	<5.0	62d	140e.f	< 0.50	< 0.005	1.0	0.066	0.094			***	See ()	***	***		***	***
B-6						•					0.11	***	***				***			***
B-6 01/06/08 11.5 0.5 0.5 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 ,	0 1/00/00																		
B-6	B-5	01/06/08	5.5	<5.0	<1.0	<1.0	< 0.05	<0.005	< 0.005	< 0.005	<0.005	***	***	300	***	3000	****		1750	
B-6 01/06/08 10.5 <5.0 6.0cd 32.ft 0.05 0.009 0.41 <0.005 0.039		01/06/08	11.5	<5.0	5.4c,d	32e,f	< 0.25	0.038	0.24	0.051	0.035	***	***	***	***	***	***			
B-6 01/06/08 10.5 <5.0 6.0cd 32.ft <0.05 0.009 0.41 <0.005 0.009 0																				
S-5-B7 S-5-B9 S-11,5-B9 O2/27/14 S-0 O2/27/1	B-6	01/06/08	5.5	<5.0	<1.0	<1.0	< 0.05	<0.005	<0.005	<0.005	<0.005			-	****	***	***			
\$-5-B8 \$\(\text{02}\)\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	B-6	01/06/08	10.5	<5.0	6.0c,d	32e,f	< 0.05	0.009	0.41	<0.005	0.039	***	***	***	***	***	222			222
\$-5-B8 \$\(\text{02}\)\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \																				
S-6-B8	S-5-B7	02/27/14	5.0																	
\$-11.5-B8 02/28/14 11.5 <25 <5.0 <0.51 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.00	S-11.5-B7	02/27/14	11.5	<25	<5.0	< 0.49	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010		***	***
\$-11.5-B8 02/28/14 11.5 <25 <5.0 <0.51 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.00									0.00=0		.0.0050	-0.0050	-0.0050	-0.050	-0.040	-0.040	-0.040	-0.050		
\$-15.5-B8 \[\begin{array}{c c c c c c c c c c c c c c c c c c c																			***	***
\$-5-B9 \$-11.5-B9 \$-2/27/14 \$-5.0 \$-2/27/14 \$-5.0 \$-2/25 \$-5.0 \$-6.0 \$-6.52 \$-6.0 \$-6.052 \$-6.0 \$-6.052 \$-6.0 \$-6.052 \$-6.0049 \$-6.0050 \$-6																			0	5555 44.44
S-11.5-B9 02/27/14 11.5 <25 <5.0 <0.52 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0049 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098 <0.0098	S-15.5-B8	02/28/14	15.5	<26	<5.1	<0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
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\$-5-B10																			100000	272 242
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S-5-B12					<4.9	< 0.50	<0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	-	***	***
S-11.5-B12 02/26/14 11.5 <25 <5.0 0.50a <0.0052 0.00074g <0.0052 0.00026g <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0																				
S-5-B13 02/25/14 5.0 <24 <4.9 <0.48 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0.0052 <0	S-5-B12	02/26/14	5.0	<25	<5.0	< 0.50	<0.0049	< 0.0049	<0.0049	< 0.0049	<0.0049							< 0.049		
02/2017 0.0 2.4 100 0.00 0.00 0.00	S-11.5-B12	02/26/14	11.5	<25	<5.0	0.50a	<0.0052	0.00074g	<0.0052	0.00026g	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010		(***	-
02/2017 0.0 2.4 100 0.00 0.00 0.00																				
S-11.5-B13 02/28/14 11.5 <25 160a 1,800 <1.0 <1.0 <1.0 16 1.5 <1.0 <1.0 <1.0 <2.0 <2.0 <2.0	S-5-B13																	<0.052	-	***
	S-11.5-B13	02/28/14	11.5	<25	160a	1,800	<1.0	<1.0	<1.0	16	1.5	<1.0	<1.0	<10	<2.0	<2.0	<2.0			(Control of the Control of the Contr

TABLE 3A CUMULATIVE SOIL ANALYTICAL RESULTS

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 2 of 4)

-																	Naph-		
Sample	Sampling	Depth	TPHmo	TPHd	TPHg	MTBE	В	Т	E	X	EDB	1,2-DCA	TBA	DIPE	ETBE	TAME	thalene	VOCs	Lead
ID	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Environmental Scr	reening Levels, Pote	ential Drinki	ng Water S	ource (De	cember 201	•													
•	gs), Residential (Tab			100	100	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	-	***	***	1.2	***	80
•	gs), Commercial (Tal			110	500	0,023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075		-		1.2		320
• • • • • • • • • • • • • • • • • • • •), Residential (Table (,		110	500	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	***	***	***	1.2	****	80
Deep (≥10 feet bgs), Commercial (Table	: C-2)		110	770	0,023	0.044	2,9	3,3	2,3	0.00033	0.0045	0.075	-	1557		1.2	-	320
S-5-B14	03/05/14	5.0	<25	<5.0	<0.53	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050		
S-11.5-B14	03/05/14	11.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	~0.000	===	
S-15.5-B14	03/05/14	15.5	<24	<4.9	<0.51	<0.0051	<0.0051	<0.0051	< 0.0051	<0.0051	<0.0051	< 0.0051	<0.051	<0.010	<0.010	<0.010		***	***
S-19-B14	03/05/14	19.0	<25	<5.0	<0.50	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0096	< 0.0096	<0.0096	***		***
0.00																			
S-5-B15	03/05/14	5.0	<25	<5.0	< 0.49	< 0.0051	<0.0051	< 0.0051	<0,0051	<0.0051	<0.0051	< 0.0051	< 0.051	<0.010	<0.010	< 0.010	< 0.051	***	***
S-10-B15	03/05/14	10.0	<24	<4.9	<0.52	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0,0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-14.0-B15	03/05/14	14.0	<25	<5.0	<0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	***	***	-
\$-5-B16	02/26/14	5.0	<25	<5.0	0.62a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.030g	<0.0099	<0.0099	<0.0099	<0.050	***	***
S-10-B16	02/26/14	10.0	<24	43a	530	<0.49	0.026g	<0.49	0.10g	0.058g	<0.49	<0.49	<4.9	<0.97	< 0.97	<0.97	0.84g	***	375
S-15.5-B16	02/26/14	15.5	<25	<5.0	<0.51	<0.0050	<0.0050	<0.0050	0.00021g	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-5-B17	02/26/14	5.0	<25	<5.0	<0.48	<0.0050	0.00014g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.011g	<0.010	<0.010	<0.010	0.0021g		
S-10-B17	02/26/14	10.0	<25	<5.0	8.4a	<0.0050	0.0063	<0.0050	<0.0050	0.00081g	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050	200	
S-15.5-B17	02/26/14	15.5	<24	<4.9	<0.51	< 0.0052	<0.0052	<0.0052	< 0.0052	<0.0052	< 0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010		***	
0 10.0 517	02/20/11	10.0			0.07	0.000	0,000	*******			*****		****		0,0,0	0.070			
Well Samples																			
S-5-MW1	10/20/10	5.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			-40
S-10-MW1	11/04/10	10.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	:	***	***
S-14.5-MW1	11/04/10	14.5	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-10-MW2	11/04/10	10.0	<25	<5.0	3.1a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	1 500	****	(2.12)
S-15-MW2	11/04/10	15.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	1222		1222
S-5-MW3	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			***
S-10.5-MW3	11/08/10	10.5	<25	11a	220	<0.50	<0.50	<0.50	2.0	1.1	<0.50	< 0.50	<5.0	<1.0	<1.0	<1.0	15000	200	57455 54465
S-15.5-MW3	11/08/10	15.5	<25	<5.0	2.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010		***	
• 10.0 M/10	,, 0 0, 1 0																		
S-8-MW3A	01/18/12	8.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	< 0.050	< 0.010	< 0.010	<0.010	1000	3	
S-14.5-MW3A	01/18/12	14.5	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	0.015	0.0052	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	***		
S-5-MW4	10/20/10	5.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-10-MW4	11/05/10	10.0	<25	<5.0	44a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	***		
S-15-MW4	11/05/10	15.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010		***	(****
S-16.5-MW4	11/05/10	16.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	::		
S-5-MW5	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	***	-	***
S-10.5-MW5	11/05/10	10.5	29	93a	450a	<0.050	<0.050	1.5	<0.50	< 0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	***	***	***
S-16.5-MW5	11/05/10	16.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-5-MW6	10/20/10	5.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050	<0.010	<0.010	<0.010			
S-10-MW6	11/02/10	10.0	<25	8.2a	8.7a	< 0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	***	***	***

TABLE 3A CUMULATIVE SOIL ANALYTICAL RESULTS

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 3 of 4)

																	Naph-		
Sample	Sampling	Depth	TPHmo	TPHd	TPHg	MTBE	В	Т	E	X	EDB	1,2-DCA	TBA	DIPE	ETBE	TAME	thalene	VOCs	Lead
,ID	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Environmental Screening			ig Water S																
Shallow (<10 feet bgs), Re				100	100	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	***	***	***	1.2	***	80
Shallow (<10 feet bgs), Co	•	,		110	500	0.023	0.044	2.9	3.3	2,3	0.00033	0.0045	0.075	0.777		1557	1.2	***	320
Deep (≥10 feet bgs), Resid	•			110	500	0.023	0.044	2,9	3.3	2,3	0.00033	0.0045	0.075	***	***	***	1.2		80
Deep (≥10 feet bgs), Comr	nercial (Table	e C-2)		110	770	0.023	0.044	2,9	3,3	2.3	0.00033	0.0045	0.075	5 ****	***	(****	1.2	-555	320
		44.5	.05	-5.0	4.0-	*0.0050	<0.0050	<0.0050	<0.0093	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010			
S-14.5-MW6	11/02/10	14.5	<25	<5.0 <5.0	1.8a <0.50	<0.0050 <0.0050	<0.0050	<0.0050	<0.0093	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	****	****	
S-20-MW6	11/02/10	20.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0000	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	-	200	505
S-5-CPT1	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	(500)		***
S-5-CPT2	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	****	***	***
S-10-AS1	01/18/12	10.0	<25	800a	2,900	<2.5	<2.5	<2.5	47	<2.5	<2,5	<2.5	<25	<5.0	<5.0	<5.0		-	1944
S-8.5-SVE1	01/17/12	8.5	<25	87a	480a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0		***	
S-11.5-SVE1	01/17/12	11.5	<25	<5.0	18	<0.0050	< 0.50	0.010	0.084	0.11	<0.0050	<0.0050	<0.50	<0.010	<0.010	<0.010			***
0 11.0 0 121	01111112			0.0															
S-10-SVE2	01/17/12	10.0	53a	37a	390a	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0	<1.0	<1.0	<1.0	***		***
S-14-SVE2	01/17/12	14.0	<25	<5.0	< 0.50	<0.0050	< 0.0050	<0.0050	< 0.0050	<0.0050	< 0.0050	< 0.0050	< 0.50	< 0.010	< 0.010	< 0.010			***
S-12.5-SVE3	01/17/12	12.5	57a	760a	1,900a	<2.5	<2.5	<2.5	<2.5	<2.5	< 0.50	< 0.50	<5.0	<1.0	<1.0	<1.0	***	***	
S-15-SVE3	01/17/12	15.0	<25	<5.0	< 0.50	<0.0050	<0.0050	<0.0050	0.015	0.033	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	•	***	
S-5-SVS1	02/25/14	5.0	<25	<5.0	<0.50	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	<0.049	***	***
												0.0040	0.040		.0.000				
S-5-SVS2	02/25/14	5.0	<25	<5.0	<0.49	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0096	<0.0096	<0.0096	<0.048	***	
			.05	.5.0	F 0	*0.0050	0.00000-	-0.0050	0.0000-	0.00000-	<0.00E0	-0.00E0	0.010-	-0.010	<0.010	-0.010	0.0038g		
S-5-SVS3	02/25/14	5.0	<25	<5.0	5.0a	<0.0050	0.00036g	<0.0050	0.0030g	0.00088g	<0.0050	<0.0050	0.016g	<0.010	<0.010	<0.010	0.0036g		***
Drum Samples																			
DR-1	01/06/08		<5.0	2.5c,d	4.9e,f	<0.050	<0.005	0.027	0.035	0.035		***			***				9.7
DR-1	01/00/00		٧٥.٥	2.00,0	4.00,1	-0.000	-0.000	0.021	0.000	0.000									•
Soil Stockpile Samples																			
COMP(S-Profile-1-4)	11/08/10		<25	7.1a	14a	<0.0050	<0.0050	<0.0050	0.069	0.049	<0.0050	<0.0050	< 0.050	<0.010	<0.010	<0.010			6.93
S-SP1 (1-4)	01/18/12		190a	39a	230	<0.0050	0.20	0.66	4.3	14	<0.0050	<0.0050	<0.050	<0.010	< 0.010	< 0.010	-		37.6
SP1	03/05/14		<24	<4.9	< 0.49	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050	ND	5.34

TABLE 3A CUMULATIVE SOIL ANALYTICAL RESULTS

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 4 of 4)

Notes:		
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015B.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B; analyzed using EPA Method 8020 in 2008.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dicholorethane analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
Lead	=	Total lead analyzed using EPA Method 6010B.
VOCs	=	Volatile organic compounds analyzed using EPA Method 8260B.
HVOCs	=	Halogenated volatile organic compounds analyzed using EPA Method 8260B.
PAHs	=	Polyaromatic hydrocarbons analyzed using EPA Method 8310.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
a	=	The chromatographic pattern does not match that of the specified standard.
b	=	Heavier gasoline range compounds are significant.
С	=	Diesel range compounds are significant; no recognizable pattern.
d	=	Gasoline range compounds are significant.
е	=	Strongly aged gasoline or diesel range compounds are significant.
f	=	No recognizable pattern.
g	=	Estimated value; analyte present at concentration above the method detection limit but below the reporting limit.

TABLE 3B ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs AND PAHs

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 1 of 3)

			i			ш	OCs						PAHs	
			1,2,4-trimethyl-	1,3,5-trimethyl-	Isopropyl-	Naph-	n-Butyl-	p-isopropyl-	sec-Butyl-	t-Butyl-		Naph-	1 7/15	
Sample	Sampling	Depth	benzene	benzene	benzene	thalene	benzene	toluene	benzene	benzene	HVOCs	thalene	Pyrene	PAHs
ID	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	creening Levels, Poten				(99)	(99)	(9/1.9/	(3.1.3)	(9,9)	(99)	(9.1.9)	(g/.tg)	(9/9)	(9/119)
	bgs), Residential (Table					1.2			200			1.2	85	
	bgs), Commercial (Table					1.2	222		-	***		1.2	85	3 1 1 1
	s), Residential (Table C-					1.2	1000					1.2	85	3
	gs), Commercial (Table C					1.2	444			245		1.2	85	
, ,														
Soil Boring Sam	ples													
Not analyzed for t	hese analytes prior to 20	014.												
S-5-B7	02/27/14	5.0	***	3 830 0	***	***	***					(2-4)		1944
S-11.5-B7	02/27/14	11.5	***	-		***		-		1966				***
S-5-B8	02/28/14	5.0	***	***	-	****		Serve.		:		-	***	.
S-11.5-B8	02/28/14	11.5	200 2	:===	***	***	***	Desert.		(****)	***	3000		
S-15.5-B8	02/28/14	15.5	1000 .0	2000	35153	######################################	5.176	955		-	1			1000
S-5-B9	02/27/14	5.0		2 -	VETE:					-				-
S-11.5-B9	02/27/14	11.5	***	3.000 m	7777	/	755	=	===	1	-		-	1 1000
S-5-B10	02/27/14	5.0	-			-								-
S-11.5-B10	02/27/14	11.5		_	202	2220			222	-				-
S-5-B11	02/28/14	5.0	Single			922		-	222		-	-		-
S-11.5-B11	03/05/14	11.5	1200 P	1000	(2015)			-	MEDS	-	7442	744		
S-15-B11	03/05/14	15.0	<u> </u>	1-11-11-11 1-11-11-11	3 212 5				2220					
S-5-B12	02/26/14	5.0	***			***			eee)	1	1	<15	<10	ND
S-11.5-B12	02/26/14	11.5		-	3444	***	***	: 265	***	***		***		
S-5-B13	02/25/14	5.0		***	***	777 8			555 3	***		16	<10	ND
S-11.5-B13	02/28/14	11.5		S ecol .	, sis	===	:555	-	555 3	-				
S-5-B14	03/05/14	5.0							Title (-			
S-11.5-B14	03/05/14	11.5	-											
S-15.5-B14	03/05/14	15.5		C <u>40.TB</u>		200		744	2520					
S-19-B14	03/05/14	19.0		1449	(EUE)		-		<u> </u>	_			12524	-
S-5-B15	03/05/14	5.0		-	721157		-		Here's		8 444			<u>515</u>)
S-10-B15	03/05/14	10.0	-	-	. 		***	2000		5 10 10 1	-	1,000	5444	***
S-14.0-B15	03/05/14	14.0						-						

TABLE 3B ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs AND PAHS

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 2 of 3)

*						HV	OCs						PAHs	
			1,2,4-trimethyl-	1,3,5-trimethyl-	Isopropyl-	Naph-	n-Butyl-	p-Isopropyl-	sec-Butyl-	t-Butyl-		Naph-		
Sample	Sampling	Depth	benzene	benzene	benzene	thalene	benzene	toluene	benzene	benzene	HVOCs	thalene	Pyrene	PAHs
ID	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Environmental So	creening Levels, Potent	ial Drinking	Water Source (De	cember 2013)										
Shallow (<10 feet b	ogs), Residential (Table /	A-1)			***	1.2		-		100 m		1.2	85	
Shallow (<10 feet l	ogs), Commercial (Table	A-2)				1.2		1		-		1.2	85	
Deep (≥10 feet bgs	s), Residential (Table C-1	l)			-	1.2				12.00		1.2	85	
Deep (≥10 feet bgs	s), Commercial (Table C-	-2)			-	1.2	***	-		7/222	-	1.2	85	
S-5-B16	02/26/14	5.0				205						<15	<10	ND
S-10-B16	02/26/14	10.0			-	222	1 <u>444</u> 2			2,000	===	<15	<10	ND
S-15.5-B16	02/26/14	15.5	5 <u>300</u> 7	- Calif	9 220	222			-					
S-5-B17	02/26/14	5.0	1 242	1,000	-	***			***			<15	<10	ND
S-10-B17	02/26/14	10.0	225	7,000	Seek	***		***		-		<15	<10	ND
S-15.5-B17	02/26/14	15.5	364E)	19 498		***	(499)	***	****				-	***
Well Samples														
Not analyzed for the	nese analytes prior to 201	14.												
S-5-SVS1	02/25/14	5.0	(ent)	- 	-	: 515 1	100		1 7117 4	***		<15	11	ND
S-5-SVS2	02/25/14	5.0	1550		-			-		-	-	<15	<10	ND
S-5-SVS3	02/25/14	5.0	-	-			***	-		***	-	<15	<10	ND
Drum Samples Not analyzed for the	nese analytes.													
Soil Stockpile Sa	mples													
COMP(S-Profile-1-	-4) 11/08/10		0.0053	0.062	0.061	0.098	0.14	0.012	0.053	0.018	ND	1100	-	***
S-SP1 (1-4)	01/18/12		8.3	2.2	0.12	<5.0	0.20	0.018	0.051	<0.0050	2.5g	3000 (***
SP1	03/05/14	***	(****		****	***	***	***	: -::- :	****		200 0		***

TABLE 3B

ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs AND PAHs

Former Exxon Service Station 79374 990 San Pablo Boulevard Albany, California (Page 3 of 3)

Notes:		
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015B.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B; analyzed using EPA Method 8020 in 2008.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dicholorethane analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
Lead	=	Total lead analyzed using EPA Method 6010B.
VOCs	=	Volatile organic compounds analyzed using EPA Method 8260B.
HVOCs	=	Halogenated volatile organic compounds analyzed using EPA Method 8260B.
PAHs	=	Polyaromatic hydrocarbons analyzed using EPA Method 8310.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
а	=	The chromatographic pattern does not match that of the specified standard.
b	=	Heavier gasoline range compounds are significant.
С	=	Diesel range compounds are significant; no recognizable pattern.
d	=	Gasoline range compounds are significant.
е	=	Strongly aged gasoline or diesel range compounds are significant.
f	=	No recognizable pattern.
g	=	Estimated value; analyte present at concentration above the method detection limit but below the reporting limit.

TABLE 4

CUMULATIVE SOIL VAPOR ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

															Naph-	Add'l				O ₂ +	
Sample ID	Sampling Date	Depth (feet)	TPHg (µg/m³)	MTBE (µg/m³)	B (µg/m³)	T (µg/m³)	E (µg/m³)	Χ (μg/m³)	EDB (µg/m³)	1,2-DCA (μg/m³)	TBA (µg/m³)	TAME (µg/m³)	ETBE (µg/m³)	DIPE (µg/m³)	thalene (µg/m³)	VOCs (µg/m³)		e Helium (%V)	CO ₂ (%V)	Argon (%V)	
Environm	ental Screen		vels, Shallow																		
Residentia		9	300,000	4,700	42	160,000	490	52,000	17	58	1922				36				/		1
	al/Industrial		2,500,000	47,000	420	1,300,000	4,900	440,000	170	580	3 515	377		-	360			-			
Media-Spe	ecific Criteria	a for Va	apor Intrusior	to indoo	r Air, No E	Bioattenuat	ion Zone	(SWRCE	, 2012)												
Residentia	I				85		1,100								93	200					-
Commerci	al				280		3,600							-	310	55TE4					
Media-Spe	ecific Criteria	a for Va	apor Intrusior	ı to Indoo	r Air, With	Bioattenu	ation Zon	e (SWR0	B, 2012)												
Residentia	I				85,000		1,100,000	0			3555	: ***			93,000						
Commerci	al				280,000		3,600,00	0			250	1212		227	310,000		722				
SVS1	03/06/14	5.5	180,000,000	<12,000	<2,600	<3,000	<3 500	<3.500	<6,100	<3,200	<9.700	<13,000	<13.000	<13 000	<0.020		15.5	<0.0100	10.0	2.58	-5.00
SVS1	08/28/14	5.5	90,000,000	•	•	12,000	-,	•	.,	<10,000					<20	ND	15.3	< 0.0100		2.49	-5.00
3731	00/20/14	5.5	90,000,000	~50,000	~0,000	12,000	~11,000	111,000	~13,000	~10,000	100,000	172,000	172,000	172,000	120	ND	10.0	٠٥.٥١٥٥	10.2	2.40	-3.00
SVS2	03/06/14	5.5	190,000,000	<1,800	1,700	740	650	3,100	<960	<510	<1,500	<2,100	<2,100	<2,100	< 0.020		11.4	<0.0100	8.31	3.62	-5.00
SVS2	08/28/14	5.5	80,000,000	<36,000	<8,000	13,000	<11,000	<11,000	<19,000	<10,000	<30,000	<42,000	<42,000	<42,000	<20	ND	11.5	<0.0100	9.67	5.54	-5.00
SVS2 Dup	08/28/14	5.5	89,000,000	<36,000	<8,000	13,000	<11,000	<11,000	<19,000	<10,000	<30,000	<42,000	<42,000	<42,000		ND	13.5	<0.0100	11.3	2.82	-5.00
SVS3	03/07/14	5.5	150,000,000	<5,800	15,000	<1,500	15,000	<1,700	<3,100	<1,600	<4,900	<6,700	<6,700	<6,700	1.1		6.29	<0.0100	13.3	4.41	-5.00
SVS3 Dup	03/07/14	5.5	150.000.000	•	22,000	<1,500	23.000	<1,700	<3.100	<1.600	<4,900	<6,700	<6,700	<6,700	***		6.73	<0.0100	14.4	3.10	-5.00
SVS3	08/28/14	5.5	87.000.000	.,	21.000	13.000	,		,	<10.000	•	<42.000	<42.000	<42.000	820a	ND	5.11	<0.0100	14.7	5.49	-5.00

TABLE 4

CUMULATIVE SOIL VAPOR ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

		Abany, camorna
Notes: TPHg	_	Total petroleum hydrocarbons as gasoline analyzed using EPA Method TO-17; analyzed using EPA Method TO-3M in March 2014.
•		
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method TO-15.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method TO-15.
EDB	=	1,2-dibromoethane analyzed using EPA Method TO-15.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method TO-15.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method TO-15.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method TO-15.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method TO-15.
DIPE	=	Di-isopropyl ether analyzed using EPA Method TO-15.
Naphthalene	=	Naphthalene analyzed using EPA Method TO-17(M).
Add'I VOCs	=	Additional volatile organic compounds analyzed using EPA Method TO-15.
Methane	=	Methane analyzed using ASTM Method D-1946.
Helium	=	Helium analyzed using ASTM Method D-1946 (M).
CO_2	=	Carbon dioxide analyzed using ASTM Method D-1946.
O ₂ + Argon	=	Oxygen plus argon analyzed using ASTM Method D-1946.
Vacuum	=	Vacuum measured using a vacuum gauge.
μg/m³	=	Micrograms per cubic meter.
%V	=	Percent by volume.
in Hg	=	Inches of mercury.
ND	=	Not detected.
Bold	=	Greater than or equal to the most stringent, applicable screening level.
<	=	Less than the stated method detection limit.
	=	Not applicable.

= Possibly biased high due to results of associated standard.

APPENDIX A CORRESPONDENCE

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]

Sent: Thursday, June 05, 2014 10:13 AM

To: Greg Gurss

Subject: RE: Former Exxon 79374 (RO2974) 990 San Pablo Avenue, Albany, CA

Greg,

Please use this email to document ACEH concurrence with the requested extension.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876

Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Greg Gurss [mailto:greq.gurss@cardno.com]

Sent: Tuesday, June 03, 2014 1:53 PM **To:** Detterman, Mark, Env. Health

Subject: Former Exxon 79374 (RO2974) 990 San Pablo Avenue, Albany, CA

Importance: High

Mr. Detterman:

Alameda County Environmental Health (ACEH) issued a letter dated September 17, 2013 approving the Cardno ERI Work Plan dated July 22, 2013. The first soil vapor sampling event (SVS1 through SVS3) was conducted on March 6, and 7, 2014. These results were included in the Soil, Soil Vapor, and Groundwater Investigation Report and Site Conceptual Model Report dated May 2, 2014 (ACEH approved an extension for this report to May 5, 2014). In the ACEH letter, it was requested that a second soil vapor sampling event be conducted approximately 6 months from the first event. Based on this, we plan to collect additional samples in late August of 2014. The letter requested that this report be submitted by June 16, 2014. We are requesting an extension for submittal of this report to October 10, 2014. If you should have any questions, please call or email. Thank you.

Greg Gurss SR PROJECT MANAGER CARDNO ERI



Phone (+1) 916-692-3100 Fax (+1) 707-789-0414 Direct (+1) 916-692-3130 Mobile (+1) 916-842-6486 Address 701 University Avenue, Suite 200, Sacramento, CA 95825 Email greg.gurss@cardno.com Web www.cardno.com www.cardnoeri.com

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ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Agency Director

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

July 7, 2014

Ms. Jennifer Sedlachek
ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
(Sent via E-mail to:

Mrs. Muriel Blank Blank Family Trust 1164 Solano Ave., #406 Albany, CA 94706

jennifer.c.sedlachek@exxonmobil.com)

Subject: Request for a Work Plan; Fuel Leak Case No. R00002974 and GeoTracker Global ID

T0619716673, Exxon, 990 San Pablo Ave., Albany, CA 94706

Dear Ms. Sedlachek and Mrs. Blank:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Soil, Soil Vapor, and Groundwater Investigation Report and Site Conceptual Model*, dated May 2, 2014, which was prepared and submitted on your behalf by Cardno ERI (Cardno) for the subject site. The report recommended work to address identified data gaps including the offsite monitoring of groundwater by the installation of two wells, and evaluation of seasonal soil vapor concentrations beneath the site to evaluate the risk of vapor intrusion at the site. In general, ACEH is in agreement with the proposed work; however, discusses differences in the sections below.

ACEH has previously evaluated the data and recommendations presented in the above-mentioned reports, in conjunction with the case files, to determine if the site is eligible for closure as a low risk site under the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on the recent investigation and ACEH staff review, we have revised the checklist and have determined that the site fails to meet the Media-Specific Criteria for Groundwater and the Media-Specific Criteria for Vapor Intrusion to Indoor Air (see Geotracker for an updated copy).

Based on the review of the case file ACEH requests that you address the following technical comments and send us the documents requested below.

TECHNICAL COMMENTS

- Request for a Work Plan ACEH requests the submittal of a work plan by the date referenced below.
 - a. Groundwater Delineation The downgradient extent of the dissolved-phased groundwater plume remains undefined. It is appropriate to monitor the extent the offsite migration of the dissolved-phased plume to the south of the site utilizes the sanitary sewer installed at an approximate depth of 12.7 feet below grade surface (bgs) beneath Buchannan Street. The proposed installation of a well near bore B12 appears warranted. A second well was proposed to be installed near soil bore B8 to monitor the terminal end of the plume; however, ACEH requests that the well be placed near bore B9 due to the apparent split in the plume migration suggested by very low to trace grab groundwater sample concentrations collected from bores B8 and B10, and higher concentrations detected at soil bore B9 downgradient of offsite residential homes.

Ms. Sedlachek and Mrs. Blank RO0002974 July 7, 2014, Page 2

b. Seasonal Soil Vapor Evaluation – The referenced report also recommended seasonal soil vapor sampling. As communicated in previous directive letters ACEH is in agreement with this recommendation; however, ACEH requests the inclusion of Halogenated Volatile Organic Compounds (HVOCs) due to the documented, but unknown location, of a former waste oil underground storage tank (UST) at the site, and the detection of exceptionally high photoionization detector (PID) results in wells MW-3 and MW-4, and high results in MW-2, without the detection of significant petroleum hydrocarbon volatiles in soil samples collected at the time of well installation. The presence of sandy soils may also contribute to the generation of a subsurface vapor cloud; however, it is appropriate to verify that chlorinated solvents related to the former waste oil UST are not a part of this vapor.

An evaluation of the foundation of the building at the subject site, or of the immediately downgradient adjacent residential homes was not included in the referenced report. The September 17, 2013 directive letter requested the evaluation of the onsite and offsite residential buildings prior to installation of vapor wells at the site. Based on a review of the residential homes on Google Earth Street View, it appears that one residential foundation may be partially below grade. This may effectively reduce the minimum five foot separation distance allowed by one LTCP vapor intrusion scenario, but also affects the appropriateness of the vapor well installation depth under the LTCP (required to be five feet below building foundations). ACEH requests a review of these foundations be undertaken, and a discussion of the depth of the existing vapor wells relative to the foundations be provided by the date requested below.

2. Draft Feasibility Study / Corrective Action Plan – ACEH's evaluation of the vapor well results indicates that the site does not satisfy the LTCP Petroleum Vapor Intrusion to Indoor Air criterion. Based on ACEH's analysis, three of four vapor samples contained oxygen less than 4% oxygen, benzene concentrations in groundwater beneath the site were recently as high as 590 micrograms per liter (µg/I), and the bioattenuation zone at the site appears to be approximately 6 feet (greater than 5 feet, but less than 10 feet). This combination of site characteristics eliminates each available scenario within the LTCP Vapor Intrusion to Indoor Air criteria.

At this time, a Draft Feasibility Study / Corrective Action Plan (FS/CAP) prepared in accordance with Title 23, California Code of Regulations, Section 2725 appears warranted. The FS/CAP must include a concise background of soil and groundwater investigations performed in connection with this case and an assessment of the residual impacts of the chemicals of concern (COCs) for the site and the surrounding area where the unauthorized release has migrated or may migrate. The FS/CAP should also include, but is not limited to, a detailed description of site lithology, including soil permeability, and most importantly, contamination cleanup levels and LTCP appropriate cleanup goals in accordance with the San Francisco Regional Water Quality Control Board (SFRWQCB) Basin Plan. Should other non-petroleum contaminants be documented, other non-LTCP cleanup goals may be required, such as San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESL) guidance for all COCs, or other generated site-specific risk-based goals. Please note that soil cleanup levels should ultimately (within a reasonable timeframe) achieve water quality objectives (cleanup goals) for groundwater in accordance with the SFRWQCB Basin Plan. Please specify appropriate cleanup levels and cleanup goals in accordance with 23 CCR Section 2725, 2726, and 2727 in the CAP.

The CAP must evaluate at least three viable alternatives for remedying or mitigating the actual or potential adverse affects of the unauthorized release(s) besides the 'no action' and 'monitored natural attenuation' remedial alternatives. Each alternative shall be evaluated not only for cost-effectiveness but also its timeframe to reach cleanup levels and cleanup goals, and ultimately the Responsible Party must propose the most cost-effective corrective action. Please submit the Draft FS/CAP by the date identified below.

Ms. Sedlachek and Mrs. Blank RO0002974 July 7, 2014, Page 3

3. Groundwater Monitoring – Please continue semi-annual groundwater monitoring in accordance with the approved groundwater monitoring plan for the site and submit groundwater monitoring report in accordance with the schedule below. For the reason discussed above for vapor, please also include analysis for HVOCs on a one time basis. The appropriateness of additional HVOC sampling is requested to be evaluated thereafter.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Barbara Jakub), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- July 25, 2014 Semi-Annual Groundwater Monitoring Report File to be named: RO2974_GWM_R_yyyy-mm-dd
- September 5, 2014 Data Gap Investigation Work Plan and Foundation Analysis
 File to be named: RO2974_WP_R_yyyy-mm-dd
- **September 19, 2014** Draft Feasibility Study / Corrective Action Plan File to be named: RO2974_DRAFT_FEASSTUD_R_yyyy-mm-dd
- 60 Days After Work Plan Addendum Approval Site Investigation Report File to be named: RO2974 SWI R yyyy-mm-dd
- December 5, 2014 Semi-Annual Groundwater Monitoring Report File to be named: RO2974 GWM R yyyy-mm-dd

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.

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Thank you for your cooperation. If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely.

Digitally signed by Mark E. Detterman DN: cn=Mark E. Detterman, o, ou,

email, c=US

Date: 2014.07.07 14:39:33 -07'00'

Mark E. Detterman, PG, CEG Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations

Electronic Report Upload (ftp) Instructions

cc: Rebekah Westrup, Environmental Resolutions, Inc., 601 North McDowell Blvd., Petaluma, CA 94954 (Sent via E-mail to: rebekah.westrup@cardno.com)

Mrs. Marcia B. Kelly, 641 SW Morningside Rd., Topeka, KS 66615 (Sent via E-mail to: marciabkelly@earthlink.net)

Ms. Sedlachek and Mrs. Blank RO0002974 July 7, 2014, Page 4

Rev. Deborah Blank, 1563 Solano Ave. #344, Berkeley, CA 94707 (Sent via E-mail to: miracoli@earthlink.net)

Dilan Roe, ACEH (Sent via E-mail to: dilan.roe@acgov.org)

Mark Detterman, ACEH (sent via electronic mail to mark.detterman@acgov.org)

GeoTracker, file

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Agency Director

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

August 22, 2014

Ms. Jennifer Sedlachek
ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
(Sent via E-mail to:
jennifer.c.sedlachek@exxonmobil.com)

Mrs. Muriel Blank Blank Family Trust 1164 Solano Ave., #406 Albany, CA 94706

Subject: Conditional Work Plan Approval; Fuel Leak Case No. RO0002974 and GeoTracker Global ID

T0619716673, Exxon, 990 San Pablo Ave., Albany, CA 94706

Dear Ms. Sedlachek and Mrs. Blank:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Work Plan for Well Installation*, dated July 7, 2014, and the *Groundwater Monitoring Report, First and Second Quarter 2014*, dated July 18, 2014, which were prepared and submitted on your behalf by Cardno ERI (Cardno) for the subject site. Thank you for submitting the reports.

Based on ACEH staff review of the work plan, the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed work. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you address the following technical comments, perform the proposed work, and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

- 1. Work Plan Modifications The referenced work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests a modification to the approach. Please submit a report by the date specified below.
 - a. Subsurface Clearance Protocols The referenced work plan proposes to clear well bore locations with hand tools or an air knife. ACEH requests that clearance not include air knifing due to the likelihood of volatilization of light hydrocarbon fractions, in particular in the vicinity of soil bore B12 / MW7.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

 September 19, 2014 – Draft Feasibility Study / Corrective Action Plan File to be named: RO2974_DRAFT_FEASSTUD_R_yyyy-mm-dd Ms. Sedlachek and Mrs. Blank RO0002974 August 22, 2014, Page 2

 November 15, 2014 – Site Investigation Report File to be named: RO2974_SWI_R_yyyy-mm-dd

 December 5, 2014 – Semi-Annual Groundwater Monitoring Report File to be named: RO2974 GWM R yyyy-mm-dd

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.

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Thank you for your cooperation. If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Digitally signed by Mark E. Detterman DN: cn=Mark E. Detterman, o, ou,

email, c=US

Date: 2014.08.22 15:31:19 -07'00'

Mark E. Detterman, PG, CEG

Senior Hazardous Materials Specialist

Enclosures: Attachment 1 - Responsible Party (ies) Legal Requirements / Obligations

Electronic Report Upload (ftp) Instructions

cc: Rebekah Westrup, Environmental Resolutions, Inc., 601 North McDowell Blvd., Petaluma, CA 94954 (Sent via E-mail to: rebekah.westrup@cardno.com)

Mrs. Marcia B. Kelly, 641 SW Morningside Rd., Topeka, KS 66615 (Sent via E-mail to: marciabkelly@earthlink.net)

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Dilan Roe, ACEH (Sent via E-mail to: dilan.roe@acgov.org)

Mark Detterman, ACEH (sent via electronic mail to mark.detterman@acgov.org)

GeoTracker, file

APPENDIX B

SITE CONCEPTUAL MODEL

Element	Description	Data Gaps
Geology and H	ydrogeology	
Regional Geology and Hydrogeology	The site lies at an approximate elevation of 40 feet above msl, and the local topography slopes toward the southwest. The site is located along the eastern margin of the San Francisco Bay within the East Bay Plain (Hickenbottom and Muir, 1988). The surficial deposits in the site vicinity are mapped as Holocene alluvial fan and fluvial deposits (Graymer, 2000). The active northwest trending Hayward fault is located approximately 1.5 miles northeast of the site. The East Bay Plain is regionally divided into two major groundwater basins: the San Pablo and the San Francisco Basin. These basins are tectonic depressions that are filled primarily with a sequence of coalescing alluvial fans. The San Francisco Basin is further divided into seven sub-areas. The site is located in the Berkeley Sub-Area, which is filled primarily by alluvial deposits that range from 10 to 300 feet thick with poorly defined aquitards (CRWQCB, 1999). Under natural conditions, the direction of groundwater flow in the East Bay Plain is east to west.	None
Site Geology, Hydrogeology, Hydraulic Flow, and Groundwater Gradient	Soil boring logs indicate that the soil beneath the site consists predominantly of silt and clay with an apparently continuous coarse-grained unit 2 to 8 feet thick encountered between approximately 8 and 20 feet bgs. Fill material was encountered in the boring for well SVE3 (located in the former UST pit) to approximately 7 feet bgs. CPT borings indicate the presence of predominantly silt and clay between approximately 20 and 60 feet bgs, the maximum depth explored. Coarse-grained layers up to 3 feet thick are interbedded with the silt and clay (EC&A, 2008; Cardno ERI, 2011; Cardno ERI, 2012a). Historical groundwater elevation data indicate that DTW ranges from 5 to 11 feet bgs beneath the site with varying groundwater flow directions. The distribution of dissolved-phase hydrocarbons suggests that the dominant groundwater flow direction is west to southwest (Cardno ERI, 2014b). Due to varying well construction, Cardno ERI separated the wells into shallow and deep water-bearing zones. Wells MW3A, MW4, MW5, and SVE1 through SVE3 are screened no deeper than 15 feet bgs and are referred to as the shallow water-bearing zone; wells MW1 through MW3 and MW6 have screened intervals that extend deeper than 15 feet bgs and are referred to as the deep water-bearing zone. The groundwater elevations in wells screened deeper than 15 feet are commonly irregular and do not agree with the distribution of petroleum hydrocarbon concentrations. Although the water-bearing zones are referred to as shallow and deep, they likely do not represent unique water-bearing zones. During fourth quarter 2013, the groundwater flow direction in the shallow water-bearing zone was towards the southwest with a hydraulic gradient of approximately 0.008. Due to varying well construction, the groundwater flow in the deep water-bearing zone is not calculated (Cardno ERI, 2014b).	None
Facility History		
Facility Structures and Site Operations	In 1945, a service station owned by Signal Oil Company occupied the site. Humble Oil company acquired the site in 1967 from Standard Oil Company of California (Chevron), rebranding the site as an Enco station. The station was rebranded as an Exxon service station in 1975 (EDR, 2009a; EDR, 2009b). The service station was demolished in 1983. During demolition activities, one used-oil UST and four gasoline USTs were removed and the resulting tank cavity was backfilled with sand and compacted to 90% (City of Albany, 1983). Cardno ERI reviewed eight aerial photographs of the site and site vicinity dated from September 6, 1949, to June 21, 1983 (EDR, 2009b). Based on these photographs, the dispenser islands appeared to be located beneath the station canopy on the northern portion of the site and the former USTs appeared to be located on the southern portion of the station's service bays. The location of the former used oil UST is unlessure. The approximate location of the former used oil UST is unlessure.	None
	used-oil UST is unknown. The approximate location of the former USTs are shown on Plate 2. A retail outlet for Benjamin Moore paints and painting products and associated asphalt parking currently occupy the site.	

Cardno ERI

Element	Description	Data Gaps
Sensitive Rece	ptors, Land Use, and Nearby Sites	
Surface Water Bodies	The site is located approximately 1,630 feet north-northwest of Cordomices Creek. No other surface water bodies have been located within a 300-meter radius of the site.	None
Nearby Wells	There are not public water supply, municipal, or domestic wells located within a ¼-mile radius of the site.	None
Public Use Areas	Two public use areas are present within a 100-meter radius of the site: the City of Albany Police, Fire, and City offices located across Buchanan Street at 1000 San Pablo Avenue and a physical therapy office located in the strip mall approximately 50 meters north of the site.	None
Residences	Sixteen residential buildings have been identified within a 300-meter radius of the site; five of those buildings are located within a 100-meter radius of the site.	None
Sub-Grade	Sub-grade structures have not been identified within a 100-meter radius of the site.	None
Utility Vaults	Twenty-three vaults have been identified on or immediately adjacent to the site. Vault uses include: water, telephone, gas meter, electric, sewer, traffic box, traffic signal, and anode.	None
Storm and Sanitary Sewers	Three storm drains are located on or adjacent to the site. The storm drains daylight along the curb and water flows west along Buchanan Street. The City of Albany Public Works Department confirmed that the storm drains discharge directly into the Bay. Two sanitary sewer cleanout vaults are located on site. The City of Albany Public Works Department confirmed that sewage is discharged at the East Bay Municipal Utilities District Treatment Plant, located 4.5 miles south of the site, at the entrance to the San Francisco Bay Bridge.	None
Other	Other site receptors have not been identified.	None
Nearby Sites	The surrounding areas consist of residential and commercial properties (Plate 2). The City of Albany Fire Department and Police Department are located south of the site on Buchanan Street. ACEH case number RO0000119, identified as Firestone #3655 in the GeoTracker™ database, is located across San Pablo Avenue to the east. A Shell Service Station and an Atlantic Richfield Company Service Station (Arco) are located approximately 350 and 500 feet away, respectively, south-southeast of the site.	None
Release Inform	ation	
Release History	The primary sources of petroleum hydrocarbons at the site are the former used-oil UST and the four former gasoline USTs. The USTs were removed in 1983 (City of Albany, 1983).	None
Extent and	Non-Aqueous Phase Liquid	None
Distribution of Petroleum Hydrocarbon Concentrations	An immiscible sheen was reported in groundwater samples collected from borings B1 and B2 (EC&A, 2008). Neither NAPL nor sheen have been observed in the groundwater monitoring wells at the site; however, during fourth quarter 2012, concentrations of TPHg (270,000 µg/L) reported in well MW4 were potentially indicative of the presence of NAPL. Although the TPHg concentrations increased, BTEX concentrations were consistent with previous data. As a result, Cardno ERI began quarterly monitoring of well MW4 to check for NAPL. To date, NAPL has not been observed in the well. Concentrations of TPHg reported in well MW4 during the second quarter 2013 (16,000 µg/L) and fourth quarter 2013 (13,000 µg/L) sampling events were consistent with historical results (Cardno ERI, 2014b). The fourth quarter 2012 TPHd result for well MW4 appears to have been anomalous.	

Cardno ERI

Element	Description	Data Gaps
	Hydrocarbons in Groundwater	Yes
	Current and historic maximum dissolved-phase petroleum hydrocarbon concentrations have been reported in well MW3, located in the vicinity of the former USTs, and wells MW4 and MW5, located west of the former USTs. Concentrations are delineated to the east of the site by wells MW1 and MW2 and to the south of the site by borings B11 and B15.	
	Dissolved-phase hydrocarbons are adequately vertically delineated at the site with petroleum hydrocarbon concentrations below or near the laboratory reporting limits in groundwater samples collected deeper than 27.5 feet bgs (Cardno ERI, 2011).	
	Data Gap: Dissolved-phase petroleum hydrocarbons require monitoring off site to the west and southwest near borings B9 and B12.	
	How to Address: Cardno ERI proposes installing two off-site wells near borings B9 and B12.	
	Hydrocarbons in Soil	None
	Maximum residual petroleum hydrocarbon concentrations are present at approximately 10.5 feet bgs in the vicinity of the former USTs. With the exception of naphthalene by EPA Method 8310 in boring B13 (5 feet bgs) and TPHg in borings B4 (5 feet bgs) and SVE1 (8.5 feet bgs), residual petroleum hydrocarbon concentrations have been near or below reporting limits in the shallow soil samples collected at the site, including samples collected in the vicinity of the former UST and suspected dispenser island locations. Residual petroleum hydrocarbon concentrations are adequately delineated in both shallow (less than 10 feet bgs) and deep (greater than or equal to 10 feet bgs) soil to the northeast, the northwest, the west, the east, the southwest, and the south by borings B5 through B11, B14, B15, MW1, MW2, and CPT1. Residual TPHg (530 mg/kg) is present to the north at 10 feet bgs in boring B16, but is near or below reporting limits at 5 and 15.5 feet bgs (EC&A, 2008; Cardno ERI, 2011; Cardno ERI, 2014a).	
	Hydrocarbons in Soil Vapor	Yes
	Maximum vapor-phase concentrations are present in well SVS3, located in the vicinity of the suspected locations of the former dispenser islands. Petroleum hydrocarbons exceed ESLs by up to three orders of magnitude in wells SVS1 through SVS3.	
	Data Gap: Vapor-phase concentrations exceed applicable screening levels.	1
	How to Address: Cardno ERI will submit a Feasibility Study/Corrective Action Plan (FS/CAP) to address vapor-phase concentrations.	
Exposure Ro	utes and Potential Receptors	
Exposure	Utility trench backfill material is not acting as a preferential pathway for petroleum hydrocarbon concentrations (Cardno ERI, 2014a).	Yes
Routes and Potential Receptors	There are not public water supply, municipal, or domestic wells located within a quarter mile of the site. The nearest surface water body (Cordornices Creek) is located approximately 1,630 feet south-southeast of the site. Residual and dissolved-phase petroleum hydrocarbons are delineated south and east of the site and are not likely to migrate to Cordornices Creek.	
	A construction worker excavating soil at the site is a potential receptor; however, since the site is paved, direct exposure (via ingestion or dermal contact) to chemicals of concern released during Exxon's operations is not likely.	
The later of	The potential exposure route of vapor inhalation may exist in the commercial/industrial setting for workers in the on-site retail outlet.	
	Users of shallow and deep groundwater are potential receptors.	
A SEC.	Data Gap: See the groundwater and soil vapor data gaps in the Release Information section.	

APPENDIX C

FIELD PROTOCOL



Cardno ERI Soil Vapor Sampling Well Installation and Sampling Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno ERI obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno ERI marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Well Construction

The borehole is advanced to the desired depth using either a direct-push rig, hand auger, or air vacuum rig. Lithologic conditions are recorded on a boring log during borehole advancement, and select soil matrix sampling may be conducted based on soil characteristics.

Each soil vapor sampling (SVS) well is constructed using inert screen material attached to 1 /₈- to 1 /₆- inch outer diameter inert tubing. A gas-tight vacuum fitting or valve is attached to the top of each length of tubing using a female compression fitting. Each screen is set within a minimum of a 12-inch thick appropriately sized sand pack, with a minimum of 3 inches of sand pack above the top of the screen. A minimum of 4 inches of dry granular bentonite is set above each screen and associated sand pack. In SVS wells with multiple and separate casings and screens, the annular space between the top of the dry granular bentonite above the deep screen and the bottom of the sand pack associated with the shallow screen is sealed with a minimum of 18 inches of hydrated bentonite. The remainder of the annular space of the well is sealed with hydrated bentonite to 1 foot below ground surface. Wellheads are finished with traffic-rated well boxes set in concrete flush with the surrounding grade. No glues, chemical cements, or solvents are used in well construction.

A boring log is completed with the construction details for each well, including the materials of construction, depth of the borehole, screen length, and annular seal thickness.

Soil Vapor Sampling

Samples are collected using a soil vapor purging and sampling manifold consisting of a flow regulator, vacuum gauges, vacuum pump, shroud, and laboratory-prepared, gas-tight, opaque containers such as Summa™ canisters. Samples may also be collected using a syringe and analyzed by a mobile laboratory. Prior to use, Summa™ canisters are checked to ensure they are under the laboratory induced vacuum between 31 and 25 inches of mercury (in. Hg). New inert tubing is used to purge and sample each well. Prior to purging and sampling each SVS well, the sampling manifold is connected to the gas-tight vacuum fitting or valve at the wellhead, and the downstream tubing and fittings are vacuum tested at approximately 24 to 28 in. Hg. Purging and sampling are conducted only on SVS wells when the tubing and fittings hold the applied vacuum for 5 minutes per vacuum gauge reading.

When required, Cardno ERI conducts a purge volume versus constituent concentration test on at least one SVS well prior to purging and sampling activities. The purge volume test well is selected based on the location of the anticipated source of chemical constituents at the site and on the location of anticipated maximum soil vapor concentrations based on lithologic conditions. If the SVS well has been in place for more than 1 week, it is assumed that soil vapor in the sand pack has equilibrated with the surrounding soil, and only the screen and tubing volumes are included in the purge volume calculation. If the SVS well has been in place for less than 1 week, the volume of the sand pack around the screen is included in the purge volume calculation. A photo-ionization detector (PID) or on-site mobile laboratory is used to evaluate concentrations of chemical constituents in the vapor stream after 1, 3, and 10 volumes of vapor have been purged from the SVS well. Purging is conducted at a rate of 100 to 200 milliliters per minute (ml/min). The purge volume exhibiting the highest concentration is the volume of vapor purged

from each SVS well prior to sampling. If the three separate purge volumes produce equal concentrations a default of 3 purge volumes is extracted prior to sampling.

Prior to sampling, a helium leak test is performed at each SVS well, including a summa canister and its fittings, to check for leaks in the SVS annulus. To assess the potential for leaks in the SVS well annulus, a shroud is placed over the SVS well and summa canister and the shroud is filled with a measured amount of helium. Helium screening is performed in the field by drawing soil gas into a Tedlar bag via a lung-box and screening the contents of the Tedlar bag with a helium meter. The concentration of helium in the sample divided by the concentration of helium in the shroud provides a measure of the proportion of the sample attributable to leakage. A leak that comprises less than 5% of the sample is insignificant. Helium screening is also performed using laboratory analysis of the contents of the summa canister collected under the shroud. Sampling is conducted at approximately the same rate of purging, at 100 to 200 ml/min. Soil vapor samples are submitted under chain-of-custody protocol for the specified laboratory analyses.

At a minimum, weather conditions (temperature, barometric pressure and precipitation), the sampling flow rate, the purge volume, the helium leak detection percentage results, the sample canister identification number, the method of sample collection, and the vacuum of the sampling canister at the start and end of sample collection (if applicable) are recorded on a log for each SVS well purged and sampled.

Decontamination Procedures

If soil samples are collected, Cardno ERI or the contracted driller decontaminates the soil sampling equipment between each sampling interval using a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned or triple-rinsed prior to advancing each borehole.

Waste Treatment and Disposal

Soil cuttings generated from the well installation are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination water is stored on site in labeled, regulatory-approved storage containers, and is subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

APPENDIX D FIELD DATA SHEETS

SVS Data Sheet

Former Exxon 79374 990 San Pablo Ave Albany, California

8/29/14 Date Sampler MM **SVS 1** Start End Inches Hg Flow Setting | He (ppm) 24.5/24.5 1106 1111 Vac Test 10 2./0 100 ce/min Purge 1111 1117 30/5 200 cc/4m 10% 1123 Sample 1117 LL899 Summa ID# 56M404 Flow Regulator ID# 8/29/14 Date Sampler MMV SVS 2 Inches Hg Flow Setting | He (ppm) Start End 24.5/245 1043 1048 Vac Test 1048 1500 1054 200cc/min Purge IOY. 1055 30/5 2001 /min 1059 Sample Summa ID# LC184 56M 013 Flow Regulator ID#

> Date Sampler

8/29/11/

SVS 3	Start	End	Inches Hg	Flow Setting	He %/ppm
Vac Test	1/38	1143	25/25	_	-
Purge	1143	1149	_	100ce/min	10%/0
Sample	1149	1154	30/5	200 ceforin	10%

Summa ID#

LC501

Flow Regulator ID#

56M177

SVS 2 Dup	Start	End	Inches Hg	Flow Setting He %/pp	om
Sample	1055	1100	30/5	100 colmin 103	

Summa ID#

5LC 081

Flow Regulator ID#

5 GM 245

¹ purge vol. = 5.88 minutes

APPENDIX E LABORATORY ANALYTICAL REPORTS



Calscience



WORK ORDER NUMBER: 14-08-2328

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Greg Gurss

601 North McDowell Blvd. Petaluma, CA 94954-2312



BY:....

Approved for release on 09/15/2014 by: Cecile deGuia Project Manager

Cente A. a Ang

ResultLink >

Email your PM >



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Calscience

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ExxonMobil 79374/022735C

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3	Client Sample Data. 3.1 ASTM D-1946 Fixed Gases (Air). 3.2 ASTM D-1946 (M) Fixed Gases (H2 and/or He) (Air). 3.3 EPA TO-15 Full List + Oxygenates (Air). 3.4 GC/MS C6-C12 AS GASOLINE (Air).	5 5 6 7 17
4	Quality Control Sample Data4.1 LCS/LCSD	19 19
5	Summa Canister Vacuum Summary	24
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Work Order Narrative

Work Order: 14-08-2328 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/30/14. They were assigned to Work Order 14-08-2328.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

TO-15

LCS/LCSD: All target analytes were within acceptance criteria with the exception of 1,1,2-Trichloro-1,2,2-Trifluoroethane. The LCS percent recovery for this analyte was below the lower control limit of 70%, but was above the NELAC-defined lower marginal exceedance (ME) limit of 59%. (ME = +/- 4 standard deviations.) Based upon the number of analytes spiked into the LCS/LCSD, and per NELAC, the laboratory is allowed to report associated data when there is, in this case, one marginal exceedance in the LCS/LCSD.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Calscience

Sample Summary

Client: Cardno ERI Work Order: 14-08-2328

601 North McDowell Blvd. Project Name: ExxonMobil 79374/022735C

Petaluma, CA 94954-2312 PO Number: 022735C

Date/Time 08/30/14 09:20 Received:

eceivea:

Number of 4 Containers:

Attn: Greg Gurss

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SVS1	14-08-2328-1	08/28/14 11:23	1	Air
SVS2	14-08-2328-2	08/28/14 10:59	1	Air
SVS2 Dup	14-08-2328-3	08/28/14 11:00	1	Air
SVS3	14-08-2328-4	08/28/14 11:54	1	Air





Cardno ERI			Date Re	eceived:			08/30/14
601 North McDowell Blvd.			Work O	rder:			14-08-232
Petaluma, CA 94954-2312			Prepara	ntion:	N		
,			Method				ASTM D-1946
			Units:				%'
Project: ExxonMobil 79374/022	735C		• • • • • • • • • • • • • • • • • • • •			Pa	age 1 of 1
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVS1	14-08-2328-1-A	08/28/14 11:23	Air	GC 65	N/A	08/30/14 15:24	140830L01
Parameter		Result		<u>RL</u>	DF	Qua	alifiers
Methane		15.3		0.500	1.00		
Carbon Dioxide		13.2		0.500	1.00		
Oxygen (+ Argon)		2.49		0.500	1.00		
SVS2	14-08-2328-2-A	08/28/14 10:59	Air	GC 65	N/A	08/30/14 15:43	140830L01
Parameter		Result		RL	DF	Qua	alifiers
Methane		11.5		0.500	1.00		
Carbon Dioxide		9.67		0.500	1.00		
Oxygen (+ Argon)		5.54		0.500	1.00		
SVS2 Dup	14-08-2328-3-A	08/28/14 11:00	Air	GC 65	N/A	08/30/14 16:01	140830L01
Parameter		Result		RL	DF	Qua	alifiers
Methane		13.5		0.500	1.00		
Carbon Dioxide		11.3		0.500	1.00		
Oxygen (+ Argon)		2.82		0.500	1.00		
SVS3	14-08-2328-4-A	08/28/14 11:54	Air	GC 65	N/A	08/30/14 16:19	140830L01
Parameter		Result		RL	<u>DF</u>	Qua	alifiers
Methane		5.11		0.500	1.00		
Carbon Dioxide		14.7		0.500	1.00		
Oxygen (+ Argon)		5.49		0.500	1.00		
Method Blank	099-16-444-41	N/A	Air	GC 65	N/A	08/30/14 14:47	140830L01
<u>Parameter</u>		Result		RL	DE	Qua	alifiers
Methane		ND		0.500	1.00		
Carbon Dioxide		ND		0.500	1.00		

Oxygen (+ Argon)

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

1.00

0.500

ND



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Cardno ERI Date Received: 08/30/14 601 North McDowell Blvd. Work Order: 14-08-2328

Petaluma, CA 94954-2312 Preparation: N/A

Method: ASTM D-1946 (M)
Units: %v

Project: ExxonMobil 79374/022735C Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch II
SVS1	14-08-2328-1-A	08/28/14 11:23	Air	GC 55	N/A	09/02/14 11:53	140902L01
Parameter		Result		<u>RL</u>	<u>DF</u>	Qua	alif <u>iers</u>
Helium		ND		0.0100	1.00		
SVS2	14-08-2328-2-A	08/28/14 10:59	Air	GC 55	N/A	09/02/14 12:42	140902L01
Parameter		Result		RL	<u>DF</u>	Qua	alifiers
Helium		ND		0,0100	1.00		
SVS2 Dup	14-08-2328-3-A	08/28/14 11:00	Air	GC 55	N/A	09/02/14 12:18	140902L01
Parameter		<u>Result</u>		RL	<u>DF</u>	Qua	alifiers
Helium		ND		0.0100	1.00		
SVS3	14-08-2328-4-A	08/28/14 11:54	Air	GC 55	N/A	09/02/14 13:05	140902L01
Parameter		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
Helium		ND		0.0100	1.00		
Method Blank	099-12-872-673	N/A	Air	GC 55	N/A	09/02/14 11:28	140902L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
Helium		ND		0.0100	1.00		



Date Received: 08/30/14 Cardno ERI Work Order: 14-08-2328 601 North McDowell Blvd.

Petaluma, CA 94954-2312 Preparation: N/A

Method: EPA TO-15

Units: ug/m3

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVS1	14-08-2328-1-A	08/28/14 11:23	Air	GC/MS K	N/A	09/11/14 02:17	140910L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	lifiers
Acetone		ND		24000	5000		
Benzene		ND	;	8000	5000		
Benzyl Chloride		ND	;	39000	5000		
Bromodichloromethane		ND		17000	5000		
Bromoform		ND	:	26000	5000		
Bromomethane		ND	,	9700	5000		
2-Butanone		ND	12	22000	5000		
Carbon Disulfide		ND	1	31000	5000		
Carbon Tetrachloride		ND		16000	5000		
Chlorobenzene		ND		12000	5000		
Chloroethane		ND		6600	5000		
Chloroform		ND		12000	5000		
Chloromethane		ND		5200	5000		
Dibromochloromethane		ND	1	21000	5000		
Dichlorodifluoromethane		ND		12000	5000		
Diisopropyl Ether (DIPE)		ND	4	42000	5000		
1,1-Dichloroethane		ND		10000	5000		
1,1-Dichloroethene		ND	9	9900	5000		
1,2-Dibromoethane		ND		19000	5000		
Dichlorotetrafluoroethane		ND	-	70000	5000		
1,2-Dichlorobenzene		ND		15000	5000		
1,2-Dichloroethane		ND		10000	5000		
1,2-Dichloropropane		ND		12000	5000		
1,3-Dichlorobenzene		ND		15000	5000		
1,4-Dichlorobenzene		ND		15000	5000		
c-1,3-Dichloropropene		ND		11000	5000		
c-1,2-Dichloroethene		ND	9	9900	5000		
t-1,2-Dichloroethene		ND	,	9900	5000		
t-1,3-Dichloropropene		ND	2	23000	5000		
Ethyl-t-Butyl Ether (ETBE)		ND	4	42000	5000		
Ethylbenzene		ND		11000	5000		
4-Ethyltoluene		ND		12000	5000		
Hexachloro-1,3-Butadiene		ND	8	30000	5000		
2-Hexanone		ND		31000	5000		
Methyl-t-Butyl Ether (MTBE)		ND	;	36000	5000		





Cardno ERI	Date Received:	08/30/14
601 North McDowell Blvd.	Work Order:	14-08-2328
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3
Project: EyyonMobil 79374/022735C	Page 2 of 10	

<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qualifiers
Methylene Chloride	ND	87000	5000	
4-Methyl-2-Pentanone	ND	31000	5000	
o-Xylene	ND	11000	5000	
p/m-Xylene	ND	43000	5000	
Xylenes (total)	ND	11000	1.00	
Styrene	ND	32000	5000	
Tert-Amyl-Methyl Ether (TAME)	ND	42000	5000	
Tert-Butyl Alcohol (TBA)	ND	30000	5000	
Tetrachloroethene	ND	17000	5000	
Toluene	12000	9400	5000	
Trichloroethene	ND	13000	5000	
Trichlorofluoromethane	ND	28000	5000	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	57000	5000	
1,1,1-Trichloroethane	ND	14000	5000	
1,1,2-Trichloroethane	ND	14000	5000	
1,3,5-Trimethylbenzene	ND	12000	5000	
1,1,2,2-Tetrachloroethane	ND	34000	5000	
1,2,4-Trimethylbenzene	ND	37000	5000	
1,2,4-Trichlorobenzene	ND	74000	5000	
Vinyl Acetate	ND	35000	5000	
Vinyl Chloride	ND	6400	5000	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	104	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	82	70-130		

Cardno ERI

Date Received: Work Order:

08/30/14 14-08-2328

601 North McDowell Blvd. Petaluma, CA 94954-2312

Preparation:

N/A

Method:

EPA TO-15

Units:

ug/m3

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVS2	14-08-2328-2-A	08/28/14 10:59	Air	GC/MS K	N/A	09/11/14 03:08	140910L01
Parameter		Result		RL	<u>DF</u>	Qua	alifiers
Acetone		ND		24000	5000		
Benzene		ND		8000	5000		
Benzyl Chloride		ND		39000	5000		
Bromodichloromethane		ND		17000	5000		
Bromoform		ND		26000	5000		
Bromomethane		ND		9700	5000		
2-Butanone		ND		22000	5000		
Carbon Disulfide		ND		31000	5000		
Carbon Tetrachloride		ND		16000	5000		
Chlorobenzene		ND		12000	5000		
Chloroethane		ND		6600	5000		
Chloroform		ND		12000	5000		
Chloromethane		ND		5200	5000		
Dibromochloromethane		ND		21000	5000		
Dichlorodifluoromethane		ND		12000	5000		
Diisopropyl Ether (DIPE)		ND		42000	5000		
1,1-Dichloroethane		ND		10000	5000		
1,1-Dichloroethene		ND		9900	5000		
1,2-Dibromoethane		ND		19000	5000		
Dichlorotetrafluoroethane		ND		70000	5000		
1,2-Dichlorobenzene		ND		15000	5000		
1,2-Dichloroethane		ND		10000	5000		
1,2-Dichloropropane		ND		12000	5000		
1,3-Dichlorobenzene		ND		15000	5000		
1,4-Dichlorobenzene		ND		15000	5000		
c-1,3-Dichloropropene		ND		11000	5000		
c-1,2-Dichloroethene		ND		9900	5000		
t-1,2-Dichloroethene		ND		9900	5000		
t-1,3-Dichloropropene		ND		23000	5000		
Ethyl-t-Butyl Ether (ETBE)		ND		42000	5000		
Ethylbenzene		ND		11000	5000		
4-Ethyltoluene		ND		12000	5000		
Hexachloro-1,3-Butadiene		ND		80000	5000		
2-Hexanone		ND		31000	5000		
Methyl-t-Butyl Ether (MTBE)		ND		36000	5000		

RL: Reporting Limit.

DF: Dilution Factor.

MDL: Method Detection Limit.

Calscience

Analytical Report

08/30/14 Date Received: Cardno ERI 14-08-2328 Work Order: 601 North McDowell Blvd. N/A Preparation: Petaluma, CA 94954-2312 Method: **EPA TO-15** Units: ug/m3

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qualifiers
Methylene Chloride	ND	87000	5000	
4-Methyl-2-Pentanone	ND	31000	5000	
o-Xylene	ND	11000	5000	
p/m-Xylene	ND	43000	5000	
Xylenes (total)	ND	11000	1.00	
Styrene	ND	32000	5000	
Tert-Amyl-Methyl Ether (TAME)	ND	42000	5000	
Tert-Butyl Alcohol (TBA)	ND	30000	5000	
Tetrachloroethene	ND	17000	5000	
Toluene	13000	9400	5000	
Trichloroethene	ND	13000	5000	
Trichlorofluoromethane	ND	28000	5000	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	57000	5000	
1,1,1-Trichloroethane	ND	14000	5000	
1,1,2-Trichloroethane	ND	14000	5000	
1,3,5-Trimethylbenzene	ND	12000	5000	
1,1,2,2-Tetrachloroethane	ND	34000	5000	
1,2,4-Trimethylbenzene	ND	37000	5000	
1,2,4-Trichlorobenzene	ND	74000	5000	
Vinyl Acetate	ND	35000	5000	
Vinyl Chloride	ND	6400	5000	
Surrogate	Rec. (%)	Control Limits	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	106	68-134		
1,2-Dichloroethane-d4	100	67-133		
Toluene-d8	92	70-130		



Cardno ERI

Analytical Report

Calscience

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Petaluma, CA 94954-2312

Preparation:

N/A

Method:

EPA TO-15

Units:

ug/m3

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVS2 Dup	14-08-2328-3-A	08/28/14 11:00	Air	GC/MS K	N/A	09/11/14 03:58	140910L01
<u>Parameter</u>		Result		RL	<u>DF</u>	Qua	alifiers
Acetone		ND		24000	5000		
Benzene		ND		8000	5000		
Benzyl Chloride		ND		39000	5000		
Bromodichloromethane		ND		17000	5000		
Bromoform		ND		26000	5000		
Bromomethane		ND		9700	5000		
2-Butanone		ND		22000	5000		
Carbon Disulfide		ND		31000	5000		
Carbon Tetrachloride		ND		16000	5000		
Chlorobenzene		ND		12000	5000		
Chloroethane		ND		6600	5000		
Chloroform		ND		12000	5000		
Chloromethane		ND		5200	5000		
Dibromochloromethane		ND		21000	5000		
Dichlorodifluoromethane		ND		12000	5000		
Diisopropyl Ether (DIPE)		ND		42000	5000		
1,1-Dichloroethane		ND		10000	5000		
1,1-Dichloroethene		ND		9900	5000		
1,2-Dibromoethane		ND		19000	5000		
Dichlorotetrafluoroethane		ND		70000	5000		
1,2-Dichlorobenzene		ND		15000	5000		
1,2-Dichloroethane		ND		10000	5000		
1,2-Dichloropropane		ND		12000	5000		
1,3-Dichlorobenzene		ND		15000	5000		
1,4-Dichlorobenzene		ND		15000	5000		
c-1,3-Dichloropropene		ND		11000	5000		
c-1,2-Dichloroethene		ND		9900	5000		
t-1,2-Dichloroethene		ND		9900	5000		
t-1,3-Dichloropropene		ND		23000	5000		
Ethyl-t-Butyl Ether (ETBE)		ND		42000	5000		
Ethylbenzene		ND		11000	5000		
4-Ethyltoluene		ND		12000	5000		
Hexachloro-1,3-Butadiene		ND		80000	5000		
2-Hexanone		ND		31000	5000		
Methyl-t-Butyl Ether (MTBE)		ND		36000	5000		

RL: Reporting Limit.

DF: Dilution Factor.

MDL: Method Detection Limit.

Calscience

Analytical Report

08/30/14 Date Received: Cardno ERI Work Order: 14-08-2328 601 North McDowell Blvd. Preparation: N/A Petaluma, CA 94954-2312 Method: EPA TO-15 Units: ug/m3

Project: ExxonMobil 79374/022735C

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#Methyl-2-Pentanone ND 31000 5000	<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qualifiers
ND	Methylene Chloride	ND	87000	5000	
ND	4-Methyl-2-Pentanone	ND	31000	5000	
Xylenes (total) ND 11000 1.00 Styrene ND 32000 5000 Fert-Amyl-Methyl Ether (TAME) ND 42000 5000 Fert-Butyl Alcohol (TBA) ND 30000 5000 Fetrachloroethene ND 17000 5000 Foluene 13000 9400 5000 Frichloroethene ND 13000 5000 Frichloroethene ND 13000 5000 Frichloroethane ND 28000 5000 1,1,2-Trichloroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trimethylbenzene ND 35000 5000 1,2,4-Trichlorobenzene ND 35000 5000 Vinyl Acetate ND 35000 5000	o-Xylene	ND	11000	5000	
Styrene	p/m-Xylene	ND	43000	5000	
ND 42000 5000 Tert-Butyl Alcohol (TBA) ND 30000 5000 Tert-Butyl Alcohol (TBA) ND 17000 5000 Tetrachloroethene ND 17000 5000 Toluene 13000 9400 5000 Trichloroethene ND 13000 5000 Trichloroethene ND 13000 5000 Trichlorofluoromethane ND 28000 5000 Trichlorofluoromethane ND 57000 5000 Trichloro-1,2,2-Trifluoroethane ND 14000 5000 Trichloroethane ND 14000 5000 Trichloroethane ND 14000 5000 Trichloroethane ND 12000 5000 Trichloroethane ND 34000 5000 Trichloroethane ND 37000 5000 Trichloroethane ND 37000 5000 Trichloroethane ND 37000 5000 Trichloroethane ND 37000 5000 Trichloroethane ND 35000 5000 Trichloroethane ND 35000 5000 Trichloroethane ND 35000 5000 Trichloroethane ND 36000 5000 Trichloroethane ND 6400 5000 Trichloroethane ND 6400 5000 Trichloroethane ND 68-134 Trichloroethane-d4 100 67-133	Xylenes (total)	ND	11000	1.00	
Tert-Butyl Alcohol (TBA)	Styrene	ND	32000	5000	
Tetrachloroethene ND 17000 5000 Foluene 13000 9400 5000 Frichloroethene ND 13000 5000 Frichlorofluoromethane ND 28000 5000 1,1,2-Trichloro-1,2,2-Triffluoroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surroaate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 67-133	Tert-Amyl-Methyl Ether (TAME)	ND	42000	5000	
Toluene 13000 9400 5000 Trichloroethene ND 13000 5000 Trichlorofluoromethane ND 28000 5000 1,1,2-Trichloroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 68-134 1,2-Dichloroethane-d4 100 67-133 67-133	Tert-Butyl Alcohol (TBA)	ND	30000	5000	
Trichloroethene ND 13000 5000 Trichlorofluoromethane ND 28000 5000 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 67-133	Tetrachloroethene	ND	17000	5000	
Trichlorofluoromethane ND 28000 5000 1,1,2-Trichloro-1,2,2-Trifluoroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 68-134 1,2-Dichloroethane-d4 100 67-133	Toluene	13000	9400	5000	
1,1,2-Trichloro-1,2,2-Trifluoroethane ND 57000 5000 1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	Trichloroethene	ND	13000	5000	
1,1,1-Trichloroethane ND 14000 5000 1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	Trichlorofluoromethane	ND	28000	5000	
1,1,2-Trichloroethane ND 14000 5000 1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,1,2-Trichloro-1,2,2-Triffuoroethane	ND	57000	5000	
1,3,5-Trimethylbenzene ND 12000 5000 1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,1,1-Trichloroethane	ND	14000	5000	
1,1,2,2-Tetrachloroethane ND 34000 5000 1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,1,2-Trichloroethane	ND	14000	5000	
1,2,4-Trimethylbenzene ND 37000 5000 1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,3,5-Trimethylbenzene	ND	12000	5000	
1,2,4-Trichlorobenzene ND 74000 5000 Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,1,2,2-Tetrachloroethane	ND	34000	5000	
Vinyl Acetate ND 35000 5000 Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,2,4-Trimethylbenzene	ND	37000	5000	
Vinyl Chloride ND 6400 5000 Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	1,2,4-Trichlorobenzene	ND	74000	5000	
Surrogate Rec. (%) Control Limits Qualifiers 1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	Vinyl Acetate	ND	35000	5000	
1,4-Bromofluorobenzene 110 68-134 1,2-Dichloroethane-d4 100 67-133	Vinyl Chloride	ND	6400	5000	
1,2-Dichloroethane-d4 100 67-133	Surrogate	Rec. (%)	Control Limits	Qualifiers	
•	1,4-Bromofluorobenzene	110	68-134		
	1,2-Dichloroethane-d4	100	67-133		
Toluene-d8 93 70-130	Toluene-d8	93	70-130		



Cardno ERI

Analytical Report Calscience

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Petaluma, CA 94954-2312

Preparation:

N/A

Method:

EPA TO-15

ug/m3

Units:

Page 7 of 10

Project: ExxonMobil 79374/022735C

Name	Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Acetone ND 24000 5000 Benzene 21000 8000 5000 Benzyl Chloride ND 39000 5000 Bromodichloromethane ND 17000 5000 Bromomethane ND 26000 5000 Bromomethane ND 26000 5000 Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chloroterene ND 12000 5000 Chlorotethane ND 12000 5000 Chloroterm ND 12000 5000 Chlorotethane ND 12000 5000 Chlorotethane ND 12000 5000 Dichlorotethane ND 12000 5000 Dichlorotethane ND 12000 5000 1,1-Dichlorotethane ND 10000 5000 1,2-Dichlorotethane ND 10000 5000 1,2-Dichlorotethane ND	svs3	14-08-2328-4-A		Air	GC/MS K	N/A		140910L01
Benzene 21000 8000 5000 Benzyl Chloride ND 39000 5000 Bromodichloromethane ND 17000 5000 Bromodichloromethane ND 26000 5000 Bromomethane ND 9700 5000 Bromomethane ND 22000 5000 Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 16000 5000 Chlorobenzene ND 6600 5000 Chlorobenzene ND 12000 5000 Chloromethane ND 5200 5000 Chloromethane ND 21000 5000 Dilchorotelhane ND 12000 5000 Dilchorotelhane ND 19000 5000 1,1-Dichlorotelhane ND 19000 5000 1,2-Dichlorotelhane ND 19000 5000 1,2-Dichlorotelhane <t< td=""><td><u>Parameter</u></td><td></td><td>Result</td><td></td><td>RL</td><td>DF</td><td>Qua</td><td>lifiers</td></t<>	<u>Parameter</u>		Result		RL	DF	Qua	lifiers
Benzyl Chloride ND 39000 5000 Bromodichloromethane ND 17000 5000 Bromoform ND 26000 5000 Bromomethane ND 9700 5000 2-Butanone ND 22000 5000 Carbon Disulfide ND 31000 5000 Carbon Terachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chlorobenzene ND 6600 5000 Chlorodethane ND 6600 5000 Chloromethane ND 5200 5000 Chloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Dichlorodifluoromethane ND 10000 5000 1,1-Dichloroethane ND 19000 5000 1,1-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloroethane	Acetone		ND		24000	5000		
Bromodichloromethane ND 17000 5000 Bromomethane ND 26000 5000 Bromomethane ND 26000 5000 2-Butanone ND 22000 5000 Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 16000 5000 Chlorobenzene ND 6600 5000 Chloroform ND 12000 5000 Chloromethane ND 5200 5000 Dibromoethane ND 12000 5000 Dibromoethane ND 12000 5000 1,1-Dichloroethane ND 19000 5000 1,2-Dibromoethane ND 19000 5000 1,2-Dichlorobenzene ND 15000 5000 1,1-Dichlorobenzene ND 15000 5000 1,2-Dichlorobenzene ND 15000 5000 1,2-Dichlorobenzene <	Benzene		21000		8000	5000		
Bromoform ND 26000 5000 Bromomethane ND 9700 5000 Bromomethane ND 22000 5000 Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chlororethane ND 6600 5000 Chloromethane ND 12000 5000 Chloromethane ND 21000 5000 Dibromochloromethane ND 21000 5000 Dibromochloromethane ND 12000 5000 Dibromochloromethane ND 12000 5000 Dibromochloromethane ND 10000 5000 1,1-Dichlorotethane ND 19000 5000 1,2-Dichlorotethane ND 19000 5000 1,2-Dichlorotethane ND 15000 5000 1,2-Dichlorotethane ND 15000 5000 1,3-Dichlorote	Benzyl Chloride		ND		39000	5000		
Bromomethane ND 9700 5000 2-Butanone ND 22000 5000 Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chloroform ND 6600 5000 Chloromethane ND 5200 5000 Chloromethane ND 21000 5000 District College ND 21000 5000 District College ND 12000 5000 District College ND 42000 5000 District College ND 42000 5000 1,1-District College ND 19000 5000 1,2-District Entiliprocethane ND 19000 5000 1,2-District Entiliprocethane ND 10000 5000 1,2-District College ND 15000 5000 1,2-District College ND 15000 5000 1,2	Bromodichloromethane		ND		17000	5000		
2-Butanone ND 22000 5000 Carbon Tetrachloride ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chloroferm ND 6600 5000 Chloromethane ND 5200 5000 Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dibromochloromethane ND 12000 5000 Dibromochloromethane ND 12000 5000 Dibromochloromethane ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,2-Dibromoethane ND 19000 5000 1,2-Dichloroethane ND 70000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloroethane ND 15000 5000 1,3-Di	Bromoform		ND		26000	5000		
Carbon Disulfide ND 31000 5000 Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chlorofform ND 6600 5000 Chloromethane ND 12000 5000 Chloromethane ND 21000 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 42000 5000 Dichlorodifluoromethane ND 42000 5000 1,1-Dichloroethane ND 42000 5000 1,1-Dichloroethane ND 9900 5000 1,1-Dichloroethane ND 9900 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloroeprane ND 15000 5000 1,2-Dichloroeprane ND 15000 5000 1,3-Dichloropropane ND 15000 5000	Bromomethane		ND		9700	5000		
Carbon Tetrachloride ND 16000 5000 Chlorobenzene ND 12000 5000 Chlorofethane ND 6600 5000 Chloroform ND 12000 5000 Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Dichlorodethane ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,2-Dibromoethane ND 19000 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloropropane ND 10000 5000 1,3-Dichloropropane ND 15000 5000 1,4-Dichloropropene ND 15000 5000 1,4-Dichloropropene ND 15000 5000 1,4-Dichloropropene ND 9900 5000 <th< td=""><td>2-Butanone</td><td></td><td>ND</td><td></td><td>22000</td><td>5000</td><td></td><td></td></th<>	2-Butanone		ND		22000	5000		
Chlorobenzene ND 12000 5000 Chlorofthane ND 6600 5000 Chloroform ND 12000 5000 Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Dichlorothane ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 70000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloropropane ND 12000 5000 1,2-Dichloropropane ND 15000 5000 1,3-Dichloropropane ND 15000 5000 1,4-Dichloropropane ND 15000 5000 1,3-Dichloropropane ND 15000 5000 1,	Carbon Disulfide		ND		31000	5000		
Chloroethane ND 6600 5000 Chloroform ND 12000 5000 Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Dispersopl Ether (DIPE) ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 15000 5000 1,3-Dichloropropane ND 15000 5000 1,4-Dichloroethane ND 9900 5000	Carbon Tetrachloride		ND		16000	5000		
Chloroform ND 12000 5000 Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Disspropyl Ether (DIPE) ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 9900 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 70000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloroethane ND 15000 5000 1,3-Dichloropropane ND 15000 5000 1,3-Dichloroethane ND 15000 5000 1,1-Dichloropropene ND 15000 5000 1,1-Dichloropropene ND 15000 5000 2-1,2-Dichloroethane ND 9900 5000	Chlorobenzene		ND		12000	5000		
Chloromethane ND 5200 5000 Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Diisopropyl Ether (DIPE) ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 9900 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 70000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloropropane ND 15000 5000 1,2-Dichloroethane ND 15000 5000 1,4-Dichloropropene ND 15000 5000 -1,3-Dichloropropene ND 11000 5000 -1,2-Dichloroethane ND 9900 5000 -1,2-Dichloroethane ND 23000 5000	Chloroethane		ND		6600	5000		
Dibromochloromethane ND 21000 5000 Dichlorodifluoromethane ND 12000 5000 Disopropyl Ether (DIPE) ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethene ND 9900 5000 1,2-Dibromoethane ND 19000 5000 1,2-Dichlorotetrafluoroethane ND 70000 5000 1,2-Dichlorotetragene ND 15000 5000 1,2-Dichloropropane ND 10000 5000 1,2-Dichloropropane ND 15000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichloropropene ND 11000 5000 2-1,2-Dichloropropene ND 9900 5000 2-1,2-Dichloroethene ND 9900 5000 2-1,2-Dichloropropene ND 23000 5000 2-1,3-Dichloropropene ND 23000 5000 2-1,3-Dichloropropene ND 2000 <td>Chloroform</td> <td></td> <td>ND</td> <td></td> <td>12000</td> <td>5000</td> <td></td> <td></td>	Chloroform		ND		12000	5000		
Dispriction of diffusion methane ND 12000 5000 Dispropyl Ether (DIPE) ND 42000 5000 1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 9900 5000 1,2-Dichloroethane ND 19000 5000 1,2-Dichloroethane ND 7000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloroptropane ND 10000 5000 1,2-Dichloroptropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichlorobenzene ND 15000 5000 2-1,3-Dichloropropene ND 11000 5000 2-1,2-Dichloroethene ND 9900 5000 2-1,2-Dichloroethene ND 9900 5000 2-1,2-Dichloropropene ND 23000 5000 2-1,3-Dichloropropene ND 42000 5000 2-1,4-Dichloropropene ND 42000	Chloromethane		ND		5200	5000		
Disspropyl Ether (DIPE) ND 42000 5000 5000 1,1-Dichloroethane ND 10000 5000 5000 1,1-Dichloroethane ND 9900 5000 5000 1,2-Dibromoethane ND 19000 5	Dibromochloromethane		ND		21000	5000		
1,1-Dichloroethane ND 10000 5000 1,1-Dichloroethane ND 9900 5000 1,2-Dibromoethane ND 19000 5000 Dichlorotetrafluoroethane ND 70000 5000 1,2-Dichlorobenzene ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloropropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichlorobenzene ND 15000 5000 1,3-Dichloropropene ND 11000 5000 1,2-Dichloroethene ND 9900 5000 1,2-Dichloroethene ND 9900 5000 1,2-Dichloropropene ND 9900 5000 1,3-Dichloropropene ND 9900 5000 1,3-Dichloropropene ND 23000 5000 1,3-Dichloropropene ND 23000 5000 1,3-Dichloropropene ND 2000 5000 Ethyl-1-Butyl Ether (ETBE) ND 42000 5000	Dichlorodifluoromethane		ND		12000	5000		
1,1-Dichloroethene ND 9900 5000 1,2-Dibromoethane ND 19000 5000 Dichlorotetrafluoroethane ND 70000 5000 1,2-Dichloroethane ND 15000 5000 1,2-Dichloropropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichlorobenzene ND 15000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 c-1,2-Dichloroethene ND 9900 5000 c-1,2-Dichloroethene ND 9900 5000 c-1,2-Dichloropropene ND 9900 5000 c-1,2-Dichloropropene ND 23000 5000 c-1,3-Dichloropropene ND 42000 5000 Ethyl-L-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 80000 5000 Hexachloro-1,3-Butadiene ND 31000 5000	Diisopropyl Ether (DIPE)		ND		42000	5000		
1,2-Dibromoethane	1,1-Dichloroethane		ND		10000	5000		
Dichlorotetrafluoroethane ND 70000 5000 1,2-Dichlorobenzene ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloropropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichloropropene ND 11000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloropropene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 t-1,3-Dichloropropene ND 42000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 80000 5000 Hexachloro-1,3-Butadiene ND 31000 5000	1,1-Dichloroethene		ND		9900	5000		
1,2-Dichlorobenzene ND 15000 5000 1,2-Dichloroethane ND 10000 5000 1,2-Dichloropropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichloropropene ND 15000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloropropene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene ND 12000 5000 4-Ethyltoluene ND 80000 5000 Hexachloro-1,3-Butadiene ND 31000 5000 2-Hexanone ND 31000 5000	1,2-Dibromoethane		ND		19000	5000		
1,2-Dichloroethane	Dichlorotetrafluoroethane		ND		70000	5000		
1,2-Dichloropropane ND 12000 5000 1,3-Dichlorobenzene ND 15000 5000 1,4-Dichloropenzene ND 15000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloropropene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	1,2-Dichlorobenzene		ND		15000	5000		
1,3-Dichlorobenzene ND 15000 5000 1,4-Dichlorobenzene ND 15000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloropropene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	1,2-Dichloroethane		ND		10000	5000		
1,4-Dichlorobenzene ND 15000 5000 c-1,3-Dichloropropene ND 11000 5000 c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloropropene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	1,2-Dichloropropane		ND		12000	5000		
ND 11000 5	1,3-Dichlorobenzene		ND		15000	5000		
c-1,2-Dichloroethene ND 9900 5000 t-1,2-Dichloroethene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	1,4-Dichlorobenzene		ND		15000	5000		
t-1,2-Dichloroethene ND 9900 5000 t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	c-1,3-Dichloropropene		ND		11000	5000		
t-1,3-Dichloropropene ND 23000 5000 Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	c-1,2-Dichloroethene		ND		9900	5000		
Ethyl-t-Butyl Ether (ETBE) ND 42000 5000 Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	t-1,2-Dichloroethene		ND		9900	5000		
Ethylbenzene 31000 11000 5000 4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	t-1,3-Dichloropropene		ND		23000	5000		
4-Ethyltoluene ND 12000 5000 Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	Ethyl-t-Butyl Ether (ETBE)		ND		42000	5000		
Hexachloro-1,3-Butadiene ND 80000 5000 2-Hexanone ND 31000 5000	Ethylbenzene		31000		11000	5000		
2-Hexanone ND 31000 5000	4-Ethyltoluene		ND		12000	5000		
	Hexachloro-1,3-Butadiene		ND		80000	5000		
Methyl-t-Butyl Ether (MTBE) ND 36000 5000	2-Hexanone		ND		31000	5000		
	Methyl-t-Butyl Ether (MTBE)		ND		36000	5000		



08/30/14 Date Received: Cardno ERI Work Order: 14-08-2328 601 North McDowell Blvd. Preparation: N/A Petaluma, CA 94954-2312 EPA TO-15 Method: Units: ug/m3

			7007	10007050	
Project:	Exxoni	nobii	79374	I/022735C	ï

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Project: ExxonMobil 79374/022735C				Page 8 of 10
<u>Parameter</u>	Result	RL	<u>DF</u>	Qualifiers
Methylene Chloride	ND	87000	5000	
l-Methyl-2-Pentanone	ND	31000	5000	
p-Xylene	ND	11000	5000	
o/m-Xylene	ND	43000	5000	
(ylenes (total)	ND	11000	1.00	
Styrene	ND	32000	5000	
Fert-Amyl-Methyl Ether (TAME)	ND	42000	5000	
Fert-Butyl Alcohol (TBA)	ND	30000	5000	
Tetrachloroethene	ND	17000	5000	
- Foluene	13000	9400	5000	
richloroethene	ND	13000	5000	
richlorofluoromethane	ND	28000	5000	
,1,2-Trichloro-1,2,2-Trifluoroethane	ND	57000	5000	
,1,1-Trichloroethane	ND	14000	5000	
,1,2-Trichloroethane	ND	14000	5000	
,3,5-Trimethylbenzene	ND	12000	5000	
,1,2,2-Tetrachloroethane	ND	34000	5000	
,2,4-Trimethylbenzene	ND	37000	5000	
,2,4-Trichlorobenzene	ND	74000	5000	
/inyl Acetate	ND	35000	5000	
/inyl Chloride	ND	6400	5000	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
,4-Bromofluorobenzene	105	68-134		
,2-Dichloroethane-d4	101	67-133		
Foluene-d8	89	70-130		

Cardno ERI

Date Received: Work Order:

08/30/14

601 North McDowell Blvd.

14-08-2328

Petaluma, CA 94954-2312

Preparation:

N/A EPA TO-15

Method: Units:

ug/m3

Project: ExxonMobil 79374/022735C

Page 9 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-14086	N/A	Air	GC/MS K	N/A	09/10/14 22:07	140910L01
Parameter		Result	RI	=	<u>DF</u>	Qua	<u>lifiers</u>
Acetone		ND	4,	8	1.00		
Benzene		ND	1.	6	1.00		
Benzyl Chloride		ND	7,	8	1.00		
Bromodichloromethane		ND	3.	4	1.00		
Bromoform		ND	5.3	2	1.00		
Bromomethane		ND	1.5	9	1.00		
2-Butanone		ND	4.	4	1.00		
Carbon Disulfide		ND	6.	2	1.00		
Carbon Tetrachloride		ND	3.	1	1.00		
Chlorobenzene		ND	2,	3	1.00		
Chloroethane		ND	1,:	3	1.00		
Chloroform		ND	2.	4	1.00		
Chloromethane		ND	1.	0	1.00		
Dibromochloromethane		ND	4.	3	1.00		
Dichlorodifluoromethane		ND	2.	5	1.00		
Diisopropyl Ether (DIPE)		ND	8.	4	1.00		
1,1-Dichloroethane		ND	2.	0	1.00		
1,1-Dichloroethene		ND	2.	0	1.00		
1,2-Dibromoethane		ND	3.	8	1.00		
Dichlorotetrafluoroethane		ND	14	1	1.00		
1,2-Dichlorobenzene		ND	3.	0	1.00		
1,2-Dichloroethane		ND	2.	0	1.00		
1,2-Dichloropropane		ND	2.	3	1.00		
1,3-Dichlorobenzene		ND	3.	0	1.00		
1,4-Dichlorobenzene		ND	3.	0	1.00		
c-1,3-Dichloropropene		ND	2.	3	1.00		
c-1,2-Dichloroethene		ND	2.	0	1.00		
t-1,2-Dichloroethene		ND	2;	0	1.00		
t-1,3-Dichloropropene		ND	4.	5	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	8.		1.00		
Ethylbenzene		ND	2.		1.00		
4-Ethyltoluene		ND	2.		1.00		
Hexachloro-1,3-Butadiene		ND	16		1.00		
2-Hexanone		ND	6.		1.00		
Methyl-t-Butyl Ether (MTBE)		ND	7.		1.00		

RL: Reporting Limit.

DF: Dilution Factor. MDL: Method Detection Limit.



1,2-Dichloroethane-d4

Toluene-d8

Analytical Report

08/30/14 Date Received: Cardno ERI Work Order: 14-08-2328 601 North McDowell Blvd. N/A Preparation: Petaluma, CA 94954-2312 EPA TO-15 Method: Units: ug/m3 Page 10 of 10

Project:	ExxonMobil	79374/022735C
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Calscience

<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qualifiers
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
Xylenes (total)	ND	2.2	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1,00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5,6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
Surrogate	<u>Rec. (%)</u>	Control Limits	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	68-134		

67-133

70-130

96

95



Cardno ERI

Analytical Report

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Preparation: Petaluma, CA 94954-2312

N/A

Method:

GC/MS C6-C12 AS GASOLINE

Project: ExxonMobil 79374/02	2735C	l	Units:			Pa	ug/m3 age 1 of 2
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SVS1	14-08-2328-1-A	08/28/14 11:23	Air	GC/MS K	N/A	09/11/14 02:17	G140910L01
Parameter		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
TPH as Gasoline (C6-C12)		90000000		2300000	5000		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,2-Dichloroethane-d4		97		50-150			
1,4-Bromofluorobenzene		92		50-150			
Toluene-d8		79		50-150			
SVS2	14-08-2328-2-A	08/28/14 10:59	Air	GC/MS K	N/A	09/11/14 03:08	G140910L01
<u>Parameter</u>		<u>Result</u>		RL	DF	Qua	alifiers
TPH as Gasoline (C6-C12)		80000000		2300000	5000		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,2-Dichloroethane-d4		98		50-150			
1,4-Bromofluorobenzene		94		50-150			
Toluene-d8		89		50-150			
SVS2 Dup	14-08-2328-3-A	08/28/14 11:00	Air	GC/MS K	N/A	09/11/14 03:58	G140910L01
<u>Parameter</u>		Result		RL	DE	Qua	alifiers
TPH as Gasoline (C6-C12)		89000000		2300000	5000		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,2-Dichloroethane-d4		99		50-150			
1,4-Bromofluorobenzene		88		50-150			
Toluene-d8		90		50-150			
svs3	14-08-2328-4-A	08/28/14 11:54	Air	GC/MS K	N/A	09/11/14 04:47	G140910L01
Parameter		Result		RL	DF	Qua	alifiers
TPH as Gasoline (C6-C12)		87000000		2300000	5000		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,2-Dichloroethane-d4		99		50-150			
1.4-Bromofluorobenzene		81		50-150			
1,1 Bromondoroponizono							



Analytical Report Calscience

Cardno ERI

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Petaluma, CA 94954-2312

Preparation:

N/A

Method:

GC/MS C6-C12 AS GASOLINE

Units:

ug/m3

Project: ExxonMobil 79374/022735C

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-16-014-49	N/A	Air	GC/MS K	N/A	09/10/14 22:07	G140910L01
Parameter		Result	<u>RL</u>		<u>DF</u>	Qualifiers	
TPH as Gasoline (C6-C12)		ND		470	1.00		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,2-Dichloroethane-d4		94		50-150			
1,4-Bromofluorobenzene		86		50-150			
Toluene-d8		92		50-150			





Quality Control - LCS/LCSD

Cardno ERI

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Petaluma, CA 94954-2312

Preparation:

N/A

Method:

ASTM D-1946

Project: ExxonMobil 79374/022735C

Page 1 of 5

Quality Control Sample ID	Type	Ma	trix	Instrument	Date Prep	ared Date	Analyzed	LCS/LCSD B	atch Number
099-16-444-41	LCS	Air	N - 11 - 12	GC 65	N/A	08/3	0/14 14:12	140830L01	
099-16-444-41	LCSD	Air		GC 65	N/A	08/3	0/14 14:30	140830L01	
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methane	4.500	4.261	95	4.267	95	80-120	0	0-30	
Carbon Dioxide	15.00	14.54	97	14.88	99	80-120	2	0-30	
Oxygen (+ Argon)	4.010	3.998	100	3.973	99	80-120	1	0-30	



Quality Control - LCS/LCSD

Cardno ERI

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2328

Petaluma, CA 94954-2312 Preparation:

N/A

Method:

ASTM D-1946 (M)

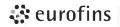
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Page 2 of 5

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Type	Mat	rix	Instrument	Date Prep	ared Date	e Analyzed	LCS/LCSD E	atch Number
099-12-872-673	LCS	Air		GC 55	N/A	09/0	2/14 10:39	140902L01	
099-12-872-673	LCSD	Air		GC 55	N/A	09/0	2/14 11:04	140902L01	
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Helium	1.000	1.010	101	1.021	102	80-120	1	0-30	





Quality Control - LCS/LCSD

Calscience

Cardno ERI

601 North McDowell Blvd.

Petaluma, CA 94954-2312

Date Received:

Work Order:

Preparation:

Method:

08/30/14

14-08-2328

N/A

EPA TO-15

Page 3 of 5

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Туре		Matrix		trument	Date Prepare			LCS/LCSD Ba	tch Number
095-01-021-14086	LCS		Air		/MS K	N/A			140910L01	
095-01-021-14086	LCSD		Air	GC	/MS K	N/A	09/10/	14 20:28	140910L01	TE THINK
<u>Parameter</u>	<u>Spike</u> <u>Added</u>	LCS Conc.	LCS <u>%Rec.</u>	LCSD Conc.	<u>LCSD</u> %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	49.92	84	53.12	89	67-133	56-144	6	0-30	
Benzene	79.87	84.28	106	86.02	108	70-130	60-140	2	0-30	
Benzyl Chloride	129.4	134.1	104	129.9	100	38-158	18-178	3	0-30	
Bromodichloromethane	167.5	175.0	104	180.7	108	70-130	60-140	3	0-30	
Bromoform	258.4	285.1	110	288.0	111	63-147	49-161	1	0-30	
Bromomethane	97.08	87.23	90	92.64	95	70-139	58-150	6	0-30	
2-Butanone	73.73	72.04	98	75.55	102	66-132	55-143	5	0-30	
Carbon Disulfide	77.85	56.36	72	55.80	72	68-146	55-159	1	0-30	
Carbon Tetrachloride	157.3	165.7	105	168.7	107	70-136	59-147	2	0-30	
Chlorobenzene	115.1	124.1	108	124.7	108	70-130	60-140	1	0-30	
Chloroethane	65.96	57.31	87	61.03	93	65-149	51-163	6	0-30	
Chloroform	122.1	120.2	98	125.4	103	70-130	60-140	4	0-30	
Chloromethane	51.63	45.91	89	49.00	95	69-141	57-153	7	0-30	
Dibromochloromethane	213.0	221.7	104	223.2	105	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	117.4	95	126.1	102	67-139	55-151	7	0-30	
Diisopropyl Ether (DIPE)	104.5	91.59	88	96.31	92	63-130	52-141	5	0-30	
1,1-Dichloroethane	101.2	102.6	101	106.4	105	70-130	60-140	4	0-30	
1,1-Dichloroethene	99.12	86.19	87	92.98	94	70-135	59-146	8	0-30	
1,2-Dibromoethane	192.1	194.1	101	195.1	102	70-133	60-144	1	0-30	
Dichlorotetrafluoroethane	174.8	122.0	70	131.2	75	51-135	37-149	7	0-30	
1,2-Dichlorobenzene	150.3	147.7	98	140.5	94	48-138	33-153	5	0-30	
1,2-Dichloroethane	101.2	96.89	96	101.5	100	70-132	60-142	5	0-30	
1,2-Dichloropropane	115.5	122.2	106	125.2	108	70-130	60-140	2	0-30	
1,3-Dichlorobenzene	150.3	144.6	96	137.3	91	56-134	43-147	5	0-30	
1,4-Dichlorobenzene	150.3	146.5	97	139.7	93	52-136	38-150	5	0-30	
c-1,3-Dichloropropene	113.5	126.4	111	129.1	114	70-130	60-140	2	0-30	
c-1,2-Dichloroethene	99.12	103.3	104	106.3	107	70-130	60-140	3	0-30	
t-1,2-Dichloroethene	99.12	99.58	100	102.1	103	70-130	60-140	2	0-30	
t-1,3-Dichloropropene	113.5	136.7	120	139.4	123	70-147	57-160	2	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	97.78	94	101.0	97	67-130	56-140	3	0-30	
Ethylbenzene	108.6	117.6	108	119.9	110	70-130	60-140	2	0-30	
4-Ethyltoluene	122.9	116.6	95	114.1	93	68-130	58-140	2	0-30	
Hexachloro-1,3-Butadiene	266.6	340.1	128	348.6	131	44-146	27-163	2	0-30	
2-Hexanone	102.4	98.17	96	98.64	96	70-136	59-147	0	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	94.28	105	96.61	107	68-130	58-140	2	0-30	
Methylene Chloride	86.84	67.32	78	71.65	83	69-130	59-140	6	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Cardno ERI 601 North McDowell Blvd. Petaluma, CA 94954-2312 Date Received: Work Order: Preparation:

Method:

14-08-2328 N/A EPA TO-15

08/30/14

Project: ExxonMobil 79374/022735C

Page 4 of 5

<u>Parameter</u>	<u>Spike</u> Added	LCS Cond	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
4-Methyl-2-Pentanone	102.4	100.1	98	102.6	100	70-130	60-140	3	0-30	
o-Xylene	108.6	109.2	101	112.4	104	69-130	59-140	3	0-30	
p/m-Xylene	217.1	230.8	106	239.6	110	70-132	60-142	4	0-30	
Styrene	106.5	102.3	96	102.3	96	65-131	54-142	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	103.0	99	103,2	99	69-130	59-140	0	0-30	
Tert-Butyl Alcohol (TBA)	151.6	123.8	82	131.5	87	66-144	53-157	6	0-30	
Tetrachloroethene	169.6	203.6	120	202.8	120	70-130	60-140	0	0-30	
Toluene	94.21	95.65	102	97.97	104	70-130	60-140	2	0-30	
Trichloroethene	134.3	139.8	104	143.4	107	70-130	60-140	3	0-30	
Trichlorofluoromethane	140.5	118.6	84	128.4	91	63-141	50-154	8	0-30	
1,1,2-Trichloro-1,2,2- Trifluoroethane	191.6	130.0	68	137.6	72	70-136	59-147	6	0-30	LR,RU
1,1,1-Trichloroethane	136.4	134.7	99	139.6	102	70-130	60-140	4	0-30	
1,1,2-Trichloroethane	136.4	142.9	105	146.5	107	70-130	60-140	3	0-30	
1,3,5-Trimethylbenzene	122.9	112.1	91	109.4	89	62-130	51-141	2	0-30	
1,1,2,2-Tetrachloroethane	171.6	153.1	89	150.5	88	63-130	52-141	2	0-30	
1,2,4-Trimethylbenzene	122.9	115.3	94	113.5	92	60-132	48-144	2	0-30	
1,2,4-Trichlorobenzene	185.5	210.0	113	211.0	114	31-151	11-171	0	0-30	
Vinyl Acetate	88.03	80.27	91	84.10	96	58-130	46-142	5	0-30	
Vinyl Chloride	63.91	56.36	88	59.99	94	70-134	59-145	6	0-30	

Total number of LCS compounds: 55
Total number of ME compounds: 1
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass



Quality Control - LCS/LCSD

Cardno ERIDate Received:08/30/14601 North McDowell Blvd.Work Order:14-08-2328

Petaluma, CA 94954-2312 Preparation: N/A

Method: GC/MS C6-C12 AS GASOLINE

Project: ExxonMobil 79374/022735C Page 5 of 5

Quality Control Sample ID	Type	Ma	trix	Instrument	Date Pr	repared	Date	Analyzed	LCS/LCSD Ba	tch Number
099-16-014-49	LCS	Air	7187	GC/MS K	N/A	-1-27	09/10	/14 18:00	G140910L01	
099-16-014-49	LCSD	Air		GC/MS K	N/A		09/10	/14 18:49	G140910L01	
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Red	c. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline (C6-C12)	4663	5782	124	6226	134	50-15	0	7	0-30	





Summa Canister Vacuum Summary

Work Order: 14-08-2328 Page 1 of 1 Sample Name **Vacuum Out** Vacuum In Equipment Description Summa Canister 1L SVS1 -29.60 in Hg -5.00 in Hg LC899 SVS2 -29.60 in Hg -5.00 in Hg LC184 Summa Canister 1L Summa Canister 1L SVS2 Dup -29.50 in Hg -5.00 in Hg SLC081 SVS3 -29.60 in Hg -5.00 in Hg LC501 Summa Canister 1L



SN

See applicable analysis comment.

Glossary of Terms and Qualifiers

Work Order: 14-08-2328 Page 1 of 1

Qualifiers	<u>Definition</u>
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
В	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to suspected matrix interference.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
DF	Reporting limits elevated due to matrix interferences.
Е	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
HD	Chromat, profile inconsistent with pattern(s) of ref. fuel stnds.
НО	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
ΙL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.

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

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



AIR CHAIN OF CUSTODY RECORD

WO#/LABUSEONLY

DATE:		8/28/2014		
PAGE:	1	OF	1	

		92841-1427 • (714) 895-5494 ormation, contact us26_sales@euro	ofinsus.com or ca	ll us.			-08-	2328	?	PAGE:		.13	- OF				
LABORATO	Exxon Mob	T T			CLIENT PRO	JECT NAME / N	UMBER: Fo	rmer Exxon	Service Sta	tion 79374		P.O. NO.:					
ADDRESS:	601 N. McDowell Blvd	1			PROJECT A	DDRESS:	90 San Pablo	Avenue				LAB CONTAC		UOTE N	Ю.:		
CITY:	taluma	STATE: CA	ZIP: 94954		CITY: Alb	any		STATE:	CA	:							
TEL: 707	7-766-2000	E-MAIL: greg.gurss@c	ardno.com		PROJECT C	ONTACT:	reg Gurss					SAMPLER(S) Nady		,	te		
	, ,	y apply to any TAT not "STANDARD"):										,	T		TED A	MALV	
	EDAY 24 HR I	48 HR □ 72 HR □ 5 DA	YS * STAN	DARD	⊠ EDD	UNITS			-					TOES	IEU AI	NALT	DE9
Reporting Global II	946 = He, CO2, O2, CH g Limits - ug/m ³ D = T0619716673 verable to norcallabs@		TO-15 Scan ind	cludes VOCs	, BTEX, MT	BE	Rep	ort final vac	uum reading	s			_	C12) TO-15	02, CH4,Ar		
LAB			Air Type	Sa	mpling Equipn		Start	Sampling Inform	WAS DESCRIBED.	Stop	Sampling Infor		j 🎖	8	2		
USE	SAMPLE ID	POINT OF COLLECTION	(I) Indoor (SV) Soil Vap. (A) Ambient	Media ID#	Canister Size 6L or 1L	Flow Controller ID #	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Date	Time (24 hr clock)	Canister Pressure ('Hg)	TO-15 Scan	TPHg (C6-C12)	Не, СО2,		
	SVS1	SVS1	sv	LC899	1L	SGM404	8/28/2014		30	8/28/2014	1123	5	×	Х	Х		
2	SVS2	SVS2	sv	LC184	1L	SGM013	8/28/2014	1055	30	8/28/2014	1059	5	х	х	х	П	
3	SVS2 Dup	SVS2	sv	SLC081	1L	SGM245	8/28/2014	1055	30	8/28/2014	1100	5	х	х	х		
4	SVS3	SVS3	sv	LC501	1L	SGM177	8/28/2014	1149	30	8/28/2014	1154	5	Х	х	х		
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Page 1 of 1 Page 27 of 28



〈WebShip〉〉〉〉〉〉

800-322-5555 www.gso.com

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

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

COD: \$0.00

Reference: CARDNO ERI

Delivery Instructions:

Signature Type: SIGNATURE REQUIRED Tracking #: 525517696

ORC

GARDEN GROVE

D92845A



28190598

Print Date: 08/28/14 15:35 PM Package 1 of 1

SDS

Send Label To Printer

Print All

Edit Shipment

Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email

Create Return Label

TERMS AND CONDITIONS:

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



Air: □Tedlar® □Canister Other: □_____ Trip Blank Lot#:

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

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by:

WORK ORDER #: 14-08-2 3 2 2

SAMPLE RECEIPT FORM

Cooler <u>0</u> of <u>0</u>

CLIENT:	EXXOV			DATE: _	08/30	/14_
TEMPERATU	JRE: Thermometer If	D: SC1 (Criteria: 0.0°C	- 6.0 °C, not froze	n except se	diment/tiss	ue)
Temperature	•°C -	0.3°C (CF) =	•°C [⊒ Blank	☐ Samp	le
☐ Sample(s)) outside temperature c	criteria (PM/APM contact	ted by:)			
		criteria but received on ic		lay of sampl	ing.	
☐ Received a	t ambient temperat	ure, placed on ice fo	r transport by Co	ourier.		
Ambient Tem	perature: 🗖 Air	☐ Filter			Checked	by: 802
CUSTODY S	EALS INTACT:					
		□ No (Not Intact)	□ Not Present	/ 2 N/A	Checked I	hv: SSL
☐ Cooler	0	•	Not Present	,	Checked I	1.
☐ Sample		□ No (Not Intact)	MLI NOL FIESEIL		CHECKER I	οy. <u>Φ</u> Ψ
SAMPLE CO	NDITION:		100	Yes	No	N/A
Chain-Of-Cust	ody (COC) documen	nt(s) received with sam	nples			
COC documen	nt(s) received comple	ete		⊿		
☐ Collection da	ate/time, matrix, and/or #	of containers logged in ba	sed on sample labels.			
☐ No analysis	•	•	me relinquished.			
		'***				
Sample contain	ner label(s) consister	nt with COC				
·	• •	od condition		_		
Proper contain	ers and sufficient vo	lume for analyses req	uested	A		
	_	me				
Aqueous sa	amples received with	in 15-minute holding t	ime			
		solved Sulfides Disso				
· · ·		or sample container		. D		9
i -	ed vials received for Vo	-			_	77
		of headspace				
CONTAINER	R TYPE:					
Solid: □4ozC	CGJ □8ozCGJ □1	16ozCGJ □Sleeve (_) □EnCore	s [®] □Terra	ıCores [®] □]
Aqueous: □V	/OA □VOAh □VOA	na₂ □125AGB □125A	AGBh □125AGBp	□1AGB 1	□1AGBna₂	. □1AGBs
□500AGB □	500AGJ □500AGJ:	s □250AGB □2500	CGB □250CGBs	s □1PB	□1PBna	□500PB
□250PR □25	50PRn □125PR □1	125PB znna □100PJ	□100PJna ₂ □]

Labeled/Checked by: 60

Reviewed by:





WORK ORDER NUMBER: 14-08-2319

The difference is service

ResultLink)

Email your PM >



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Greg Gurss

601 North McDowell Blvd. Petaluma, CA 94954-2312

DECEIVED N SEP 1 5 2014

BY:

Coupe d. in Dung

Approved for release on 09/15/2014 by: Cecile deGuia Project Manager

nelad

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name:	ExxonMobil 79374/022735C

Work Order Number: 14-08-2319

1	Work Order Narrative	3
2	Sample Summary.	4
3	Client Sample Data	5
4	Quality Control Sample Data	6
5	Glossary of Terms and Qualifiers	7
6	Chain-of-Custody/Sample Receipt Form	8



Work Order Narrative

Work Order: 14-08-2319 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/30/14. They were assigned to Work Order 14-08-2319.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

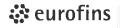
Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

TO-17 Naphthalene

The associated Internal Standard, Chlorobenzene-d5, was low due to high levels of hydrocarbon present in the sample and therefore the reported detection for Naphthalene may be biased high. Only one sorbent tube was received and a reanalysis was not performed.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Sample Summary

Client: Cardno ERI

Work Order: Project Name: 14-08-2319

601 North McDowell Blvd. Petaluma, CA 94954-2312

Calscience

PO Number:

ExxonMobil 79374/022735C

PO Number.

022735C

Date/Time Received:

08/30/14 09:20

Number of Containers:

3

Attn: Greg Gurss

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
ST-SVS1	14-08-2319-1	08/28/14 12:21	1	Air
ST-SVS2	14-08-2319-2	08/28/14 12:17	1	Air
ST-SVS3	14-08-2319-3	08/28/14 12:11	1	Air





Analytical Report

Calscience

Cardno ERI

Date Received:

08/30/14

601 North McDowell Blvd.

Work Order:

14-08-2319

Petaluma, CA 94954-2312			Prepara	tion:			N/A
			Method:			E	PA TO-17 (M)
			Units:				ug/m3
Project: ExxonMobil 79374/0227	35C					Pa	ge 1 of 1
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SVS1	14-08-2319-1-A	08/28/14 12:21	Air	GC/MS MMM	N/A	09/04/14 11:37	140903L01
Parameter		Result		RL	<u>DF</u>	<u>Qua</u>	<u>alifiers</u>
Naphthalene		ND		20	1.00		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,4-Bromofluorobenzene		155		57-129	AZ		
ST-SVS2	14-08-2319-2-A	08/28/14 12:17	Air	GC/MS MMM	N/A	09/04/14 12:21	140903L01
Parameter		Result		RL	<u>DF</u>	Qua	alifiers
Naphthalene		ND		20	1.00		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,4-Bromofluorobenzene		9676		57-129	AZ		
ST-SVS3	14-08-2319-3-A	08/28/14 12:11	Air	GC/MS MMM	N/A	09/04/14 13:04	140903L01
Comment(s): - Please see Work Ord	ler Narrative, additional	comments sect	ion.				
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	<u>Qu</u>	<u>alifiers</u>
Naphthalene		820		20	1.00		
Surrogate		Rec. (%)		Control Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		829		57-129	AZ		
Method Blank	099-15-178-25	N/A	Air	GC/MS MMM	N/A	09/03/14 20:41	140903L01
Comment(s): - MB data is reported in	n ng/sample.						
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	<u>Qu</u>	alifiers
Naphthalene		ND		2.0	1.00		
Surrogate		Rec. (%)		Control Limits	Qualifiers		
1,4-Bromofluorobenzene		99		57-129			

RL: Reporting Limit.

DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - LCS/LCSD

Calscience

Cardno ERI 601 North McDowell Blvd. Petaluma, CA 94954-2312 Date Received: Work Order:

14-08-2319

Preparation:

N/A

08/30/14

Method:

EPA TO-17 (M)

Project: ExxonMobil 79374/022735C

Page 1 of 1

Quality Control Sample ID	Type	Ma	trix	Instrument	Date Prep	pared	Date	Analyzed	LCS/LCSD B	atch Number
099-15-178-25	LCS	Air		GC/MS MMM	N/A		09/0	3/14 19:24	140903L01	
099-15-178-25	LCSD	Air		GC/MS MMM	N/A		09/0	3/14 20:02	140903L01	
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Red	. CL	RPD	RPD CL	<u>Qualifiers</u>
Naphthalene	100.0	89.43	89	91.92	92	40-19	0	3	0-35	



Glossary of Terms and Qualifiers

Work Order: 14-08-2319 Page 1 of 1

Qualifiers	<u>Definition</u>
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
В	Analyte was present in the associated method blank.
ВА	The MS/MSD RPD was out of control due to suspected matrix interference.
ВВ	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired,
BV	Sample received after holding time expired.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.
НО	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
НХ	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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Calscience

14-08-2319

ΔIR	CHAIN	OF CI	ISTODY	RECORD
		OF G	J	NEGONE

DATE: 8/28/2014

PAGE: 1 OF 1

		rmation, contact us26_sales@eurofi	nsus.com or cal	l us.			UU		.48888										
LABORATORY CLIENT: Exxon Mobil / Cardno				CLIENT PRO	P.O. NO.: 022735CX														
ADDRESS: 601 N. McDowell Blvd				PROJECT ADDRESS: 990 San Pablo Avenue CITY: STATE: ZIP:								LAB CONTACT OR QUOTE NO.:							
CITY: STATE: ZIP: Petaluma CA 94954					CITY: Alba	SAMPLER(S): (PRINT)													
TEL: 707-766-2000 E-MAIL: greg.gurss@cardno.com TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):				PROJECT CO	Nadya Vicente														
						DECHESTED ANALYSES													
	•					REDD UNITS									REQUESTED ANALYSES				
Reporting Global ID	Limits - ug/m³) = 10619716673	Pori un com				1				1100 11100 11100 1110	-		Napthalene						
EDF deliv	verable to norcallabs@	gen-us.com	Air Type	Sam	pling Equipme	nt	Start	Sampling Inform	ation	Ston 5	Sampling Infor	pling information							
LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	(I) Indoor (SV) Soil Vap. (A) Ambient	Media ID #	Tube Size	Flow Controller ID #	Date	Time (24 hr clock)	Canister Pressure ("Hg)	Date	Time (24 hr clock)	Canister Pressure ("Hg)	TO-17 N						
7	ST-SVS1	SVS1	sv	G0141399	100ml	NA	8/28/2014	NA	NA	8/28/2014	1221	NA	X						
2	ST-SVS2	SVS2	sv	G0141377	100ml	NA	8/28/2014	NA	NA	8/28/2014	1217	NA	Х						
7. 3	ST-SVS3	SVS3	sv	G0186816	100ml	NA	8/28/2014	NA	NA	8/28/2014	1211	NA	Х		\rightarrow				
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06/02/14 Revision





Page I

《WebShip》>>>>

000-322-5555-WWW.gso.com

ANAMOREMS ANAMOREMS ANAMOREM TONGORD LORG COMMERCIAL CIRCLE#H TORY RD, COMMERCIAL

SAMPLE RECEIVING CEL 1440 LINCOLN WAY GARGEN GROVE, CA 92841

COU. 20- 12

Reference: CARDNO ERI

Delivery Instructions:

Tracking #:

GARDEN GROVE

525517822

D92845A





WORK ORDER #: 14-08-23 7 9

SAMPLE RECEIPT FORM

Cooler ____ of ___

CLIENT: EXXON DA	ATE: <u>08</u>	1/30/14						
TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen exc	cept sedime	nt/tissue)						
Temperature 3.0°C-0.3°C(CF) = 2.7°C ØBI	ank 🗆	Sample						
☐ Sample(s) outside temperature criteria (PM/APM contacted by:)								
☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.								
☐ Received at ambient temperature, placed on ice for transport by Courier.								
Ambient Temperature: Air Filter		ecked by: 802						
CUSTODY SEALS INTACT:		80						
		ecked by:						
□ Sample □ □ No (Not Intact) ✓ Not Present	Che	ecked by: _&೧_						
SAMPLE CONDITION: Yes	No	o N/A						
Chain-Of-Custody (COC) document(s) received with samples								
COC document(s) received complete								
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.								
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.								
Sampler's name indicated on COC								
Sample container label(s) consistent with COC								
Sample container(s) intact and good condition								
Proper containers and sufficient volume for analyses requested								
Analyses received within holding time								
Aqueous samples received within 15-minute holding time								
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen ☐		₽						
Proper preservation noted on COC or sample container		′p						
☐ Unpreserved vials received for Volatiles analysis		′						
Volatile analysis container(s) free of headspace		ń						
Tedlar bag(s) free of condensation		Þ						
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve () □EnCores® □TerraCores® □								
Aqueous: □VOA □VOAh □VOAna₂ □125AGB □125AGBh □125AGBp □1A	AGB □1AG	Bna₂ □1AGBs						
□500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs □	1PB 🗆 1PE	3na ∃500PB						
□250PB □250PBn □125PB □125PBznna □100PJ □100PJna ₂ □		0						
Air: Tedlar Canister Other: Trip Blank Lot#: La Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope		ked by: Sb2						
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