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February 9, 2015

Ms. Donna Drogos Alameda County Environmental Health 1131 Harbor Parkway, Suite 250 Oakland, CA 94502-6577

Subject:

Fourth Quarter 2014 Groundwater Monitoring Report

Shore Acres Gas

403 East 12th Street, Oakland, Alameda County, California

RO #0002931 ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the February 6, 2015 Fourth Quarter 2014 Groundwater Monitoring Report for the above referenced site prepared by our consultant Environmental Compliance Group, LLC.

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

Respectfully,

Rashid Ghafoor

R-5 h



270 Vintage Drive Turlock, CA 95382 P: 209.664.1035 F: 209.664.1040

FOURTH QUARTER 2014 GROUNDWATER MONITORING AND REMEDIATION STATUS REPORT

SHORE ACRES GAS 403 EAST 12TH STREET OAKLAND, CALIFORNIA

Prepared for: Rashid Ghafoor

ECG Project Number: GHA.19009 Alameda County Fuel Leak Case No. RO0002931

February 6, 2015



Drew Van Allen Senior Project Manager

Michael S. Sgourakis Principal Geologist CA P.G. No. 7194

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INTRODUCTION

Environmental Compliance Group (ECG) has been authorized by Mr. Rashid Ghafoor to provide this report for the site.

This report describes activities conducted during Fourth Quarter 2014 groundwater monitoring event. Site information is as follows:

Site Location:

403 East 12th Street

Oakland, California

Geotracker Global ID:

T0600174667

LIMITATIONS

This report has been prepared for use by Rashid Ghafoor and the relevant regulatory agencies. The conclusions in this report are professional opinions based on the data presented in this report. This report was prepared in general accordance with hydrogeologic and engineering methods and standards. No other warranties are made as to the findings or conclusions presented in this report. The work described in this report was performed under the direct supervision of the professional geologist whose signature and State of California registration are shown above.

SITE DESCRIPTION AND HYDROGEOLOGIC CONDITIONS

SITE DESCRIPTION

The site occupies a parcel on the southeast corner of 4th Avenue and East 12th Street in Oakland, Alameda County, California (Figure 1). The site is situated in a commercial and residential area in central Oakland and is currently vacant. The site was historically used as a gasoline station. The area of interest at the site is the former location of three underground storage tanks (USTs) and fuel dispensers where impacted soil and groundwater was first identified in 2006. A detailed site plan is shown on Figure 2.

HYDROGEOLOGIC CONDITIONS

The site is underlain by Quaternary-age dune sand deposits referred to as the Merritt Sand. The Merritt Sand is typically described as loose, well-sorted fine- to medium-grained sand with a large silt component. The sand is reported to reach a maximum depth of 50-feet bgs in the area.

Based on boring logs from the advancement of 11 soil borings and the installation of six monitoring wells and four extraction wells, the stratigraphy of the site and vicinity consists of silt to approximately 30-feet bgs with discontinuous thin intervals of sandy silt and clayey sand present in the area.

Depth to groundwater is shallow, ranging between 8- to 14-feet bgs and groundwater appears to be at historic lows. The groundwater flow direction appears to be generally toward the south or southwest.

CLEANUP CRITERIA

It is prudent to establish cleanup goals for soil and groundwater based upon reaching the residential Environmental Screening Levels (ESLs) established by Region II for sites with shallow soil where groundwater is not a current or potential drinking water source. The primary constituents of concern relative to the site appear to be total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA). Accordingly, the following cleanup goals are proposed:

Constituent	Soil (mg/kg)	Groundwater (ug/L)
TPHd	100	210
TPHg	100	210
Benzene	0.12	46
Toluene	9.3	130
Ethylbenzene	2.3	43
Xylenes	11	100
MTBE	8.4	1,800
TBA	100	18,000

PROJECT BACKGROUND

INVESTIGATIONS

In July 2006, Geofon Incorporated (Geofon) advanced soil borings GP-1 and GP-2 and collected and analyzed soil samples. Results are detailed in Geofon's report entitled *Summary of Phase II Assessment Activities*, dated July 25, 2006.

In August 2009, Wright Environmental Services, Inc. (Wright) removed three USTs, associated fuel dispensers, and all associated piping. Results are detailed in Wright's *Closure Report for Three Underground Storage Tanks*, dated September 2009.

In April 2010, Apex Envirotech, Inc. (Apex) advanced nine soil borings to evaluate the lateral extent of impacted soil and groundwater. Results are documented in Apex's Subsurface Investigation Results Report dated June 23, 2010.

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). Results are documented in ECG's *Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report*, dated January 26, 2012.

RISK ASSESSMENTS

In January 2011, ECG conducted a preferential pathway study for the site. Results are detailed in ECG's Site Assessment and Soil Vapor Extraction Pilot Test Workplan, dated February 9, 2011.

In January 2011, ECG conducted a sensitive receptor survey for the site. Results are detailed in ECG's Site Assessment and Soil Vapor Extraction Pilot Test Workplan, dated February 9, 2011.

A soil vapor survey has not been completed for the site.

CORRECTIVE ACTIONS

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two extraction wells (EW-1 and EW-2). ECG also performed a 5-day dual phase extraction (DPE) test in June 2011. Results are documented in ECG's Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report, dated January 26, 2012.

In May 2013, ECG supervised the installation of two extraction wells (EW-3 and EW-4). In September 2013, ECG installed the subsurface piping network from the remediation wells to the remediation compound and the subsurface conduit required by PG&E to install the electrical service required to operate the remediation compound.

In April 2014, the dual phase extraction system began operation. The DPE system includes a 25-horsepower liquid-ring blower capable of up to 400 standardized cubic feet per minute (scfm) flowrate, thermal/catalytic oxidizer, a conveyance piping network, and four individual extraction wells. The blower extracts vapors and groundwater from each extraction wells and through the conveyance piping where the impacted vapor is destroyed in the thermal/catalytic oxidizer prior to discharge to the atmosphere and the groundwater is treated with an air stripper and granular activated carbon prior to discharge to the municipal sewer system.

The DPE system is operated under Bay Area Air Quality Management District (BAAQMD) permit number 25354 and East Bay Municipal Utility District (EBMUD) Discharge Permit No. 68508758. The DPE system has removed approximately 6,816 pounds of TPHg, 33 pounds of benzene, and 3 pounds of MTBE from the subsurface. The remediation system was started on April 30, 2014 and shut down on June 27, 2014 due to carbon change out requirements. The system was restarted on August 15, 2014.

FOURTH QUARTER 2014 MONITORING EVENT

WORK PERFORMED AND PROPOSED

The following is a summary of work performed during the fourth quarter 2014 and work proposed for next quarter at the site.

WORK PERFORMED FOURTH QUARTER 2014

- 1. The fourth quarter 2014 groundwater monitoring event was performed on December 15, 2014.
- 2. ECG performed DPE system startup, troubleshooting, and maintenance to the O&M unit.

WORK SCHEDULED FOR FIRST QUARTER 2015

- 1. Prepare and finalize the fourth quarter 2014 monitoring report.
- 2. Continue to operate the remediation system.
- 3. Perform first quarter 2015 monitoring event.

DISCUSSION OF RECENT MONITORING ACTIVITIES

ECG performed the fourth quarter 2014 groundwater monitoring and sampling event at the site on December 15, 2014. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix A. The collected groundwater samples were submitted to Argon Analytical Services, Inc. located in Ceres, California for laboratory analysis under COC protocols (Appendix B).

The following is a summary of the current status of the groundwater monitoring program at the site:

Current Phase of Project:

Remediation

Groundwater Sampling Schedule:

Quarterly

Wells MW-1 through MW-6, EW-1 through

EW-4

Analysis:

TPHg by EPA Method 8015M, BTEX, 5 oxygenates, and 2 lead scavengers by EPA

Method 8260B

Is Free Product Present On-Site:

No

The following is a summary of recent field and analytical data:

Average Depth to Groundwater

8.23-feet below ground surface (bgs)

Average Groundwater Elevation

22.98 -feet above mean sea level

Groundwater Gradient Direction

East

Groundwater Gradient

0.013 feet/foot

TPHg Detected Range

85 ug/L (MW-2) to 26,000 ug/L (EW-3) 14 ug/L (MW-2) to 1,200 ug/L (EW-3)

Benzene Detected Range MTBE Detected

7.3 ug/L (MW-2) to 370 (MW-5)

Laboratory analytical reports and COCs are provided in Appendix B. Field notes are located in Appendix C. Summaries of groundwater monitoring and analytical data are presented in Tables 4a.

DISCUSSION OF RECENT REMEDIATION ACTIVITIES

The system was shut down on October 5, 2014 for repairs by the manufacturer to the oil/water separator and restarted on October 15, 2014. The system was shut down on October 28, 2014 for repairs to the air stripper transfer pump and restarted on November 10, 2014. ECG performed remediation system monitoring and operations and maintenance activities on October 3, 13, and 28, November 10 and 25, and December 1, 9, and 24, 2014. Multiple additional visits were made to the site to ensure the operation of the remediation systems and restart them as needed as the unit needed. Operating parameters are recorded twice each month and are included on the field notes in Appendix C. Influent and effluent vapor samples are field screened each visit with a photoionization detector and samples are collected monthly in accordance with BAAQMD permit requirements. The collected vapor samples were submitted to Kiff Analytical, LLC, located in Davis, California for laboratory analysis under COC protocols.

Fourth Quarter 2014 Groundwater Monitoring and Remediation Status Report Shore Acres Gas 403 East 12th Street, Oakland, California

The following is a summary of the fourth quarter 2014 remediation results at the site:

SVE System Operating Hours 606.7 hours, 25 days

Active SVE Extraction Points Varied
Average Influent Flowrate 150 scfm

TPHg Detected Range in SVE Influent 130 parts per million by volume (ppmv) to

610 ppmv

Benzene Detected Range in SVE Influent 2.4 ppmv to 2.6 ppmv

MTBE Detected in SVE Influent 0.23 ppmv to 0.44 ppmv

SVE Destruction Efficiency >97% or less than 0.109 pounds of benzene

per day emission

Average Groundwater Extraction Rate 1.2 gallons per minute (gpm)

Average TPHg Detected in Groundwater Influent

Average Benzene Detected in Groundwater Influent

Average MTBE Detected in Groundwater Influent

12,175 ug/L

710 ug/L

131 ug/L

Summaries of remediation system operating parameters and analytical data are presented in Tables 5a, 5b, and 5c.

RESULTS AND CONCLUSIONS

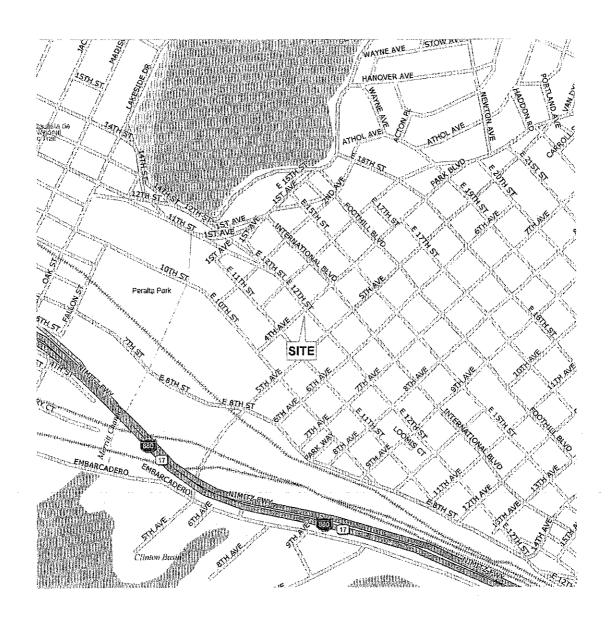
Water levels and the gradient data were consistent with historical data. Tables 2a, 2b, 3a, 3b, 4a, and 4b tabulate the analytical data for soil and monitoring well sampling data.

The DPE system operated for 25 days during the fourth quarter of 2014 from September 25 to December 9, 2014. The system removed approximately 718 pounds of TPHg, 3.0 pounds of benzene, and 0.4 pound of MTBE from the vapor phase during this reporting period (Table 5a). Approximately 15 pounds of TPHg, 0.89 pounds of benzene, and 0.16 pounds of MTBE were removed from the groundwater phase during this quarter (Table 5c). The DPE system operated within the rules of the BAAQMD permit issued to the facility.

ECG will continue DPE remediation activities. ECG is continuing permitting with PG&E to install natural gas service and remove the propane tank. The propane provider to the site has proven to be inconsistent. The next groundwater monitoring event will be in first quarter 2015.

ECG proposes conducting a pilot test consisting of installing submersible pumps into two extraction wells, EW-3 and EW-4, and extracting additional water while the current DPE system operates. The purpose of this pilot test is to determine what groundwater flow rates are required to further dewater the shallow zone aquifer and what increase, if any, is observed during low water conditions. It has been documented during 0 and M of the system that higher PID readings coincide with lower water levels. This pilot test will quantify all the parameters to determine the feasibility of implementing full time groundwater pumping. During the test, groundwater from the submersible pumps will be stored in a poly tank for disposal through the system at a very low, controlled flow rate so the current air stripper and transfer pumps are not inundated during the test. Upon concurrence from the CVWQCB, ECG will prepare a workplan report detailing the activities suggested above.

FIGURES



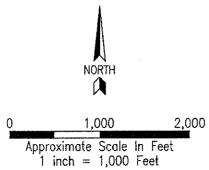


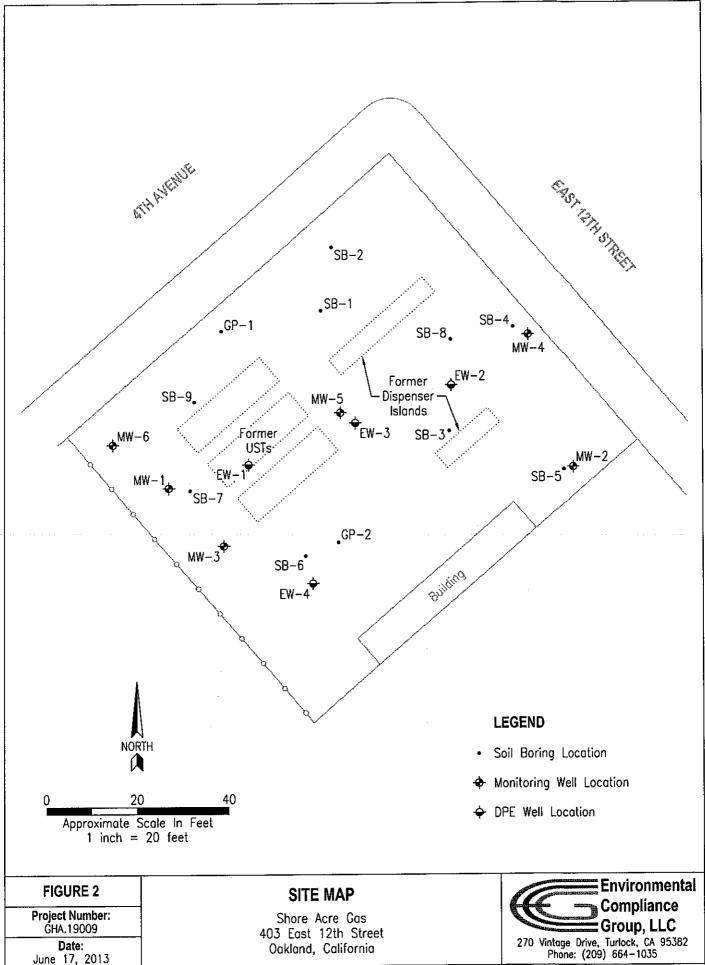
FIGURE 1

Project Number: GHA.19009

Date: February 9, 2011

SITE LOCATION MAP





June 17, 2013

Oakland, California

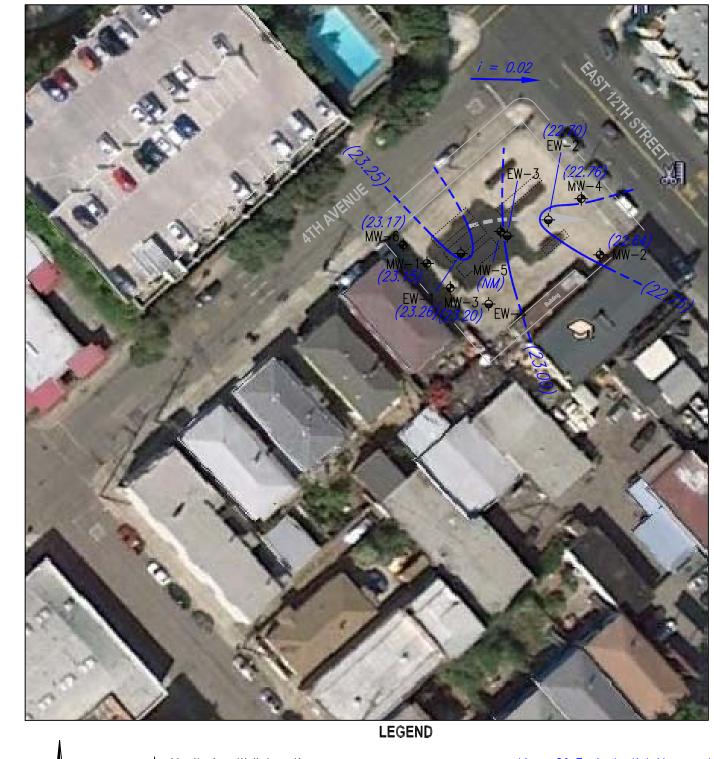




FIGURE 3

Project Number: GHA.19009

Date: February 23, 2015

POTENTIOMETRIC SURFACE MAP DECEMBER 15, 2014







♦ Vapor Extraction Well Location

Concentration Of TPHg In Groundwater Measured In ug/L <u></u> (5,000) –

Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L (Dashed Where Inferred)

O 50 100

Approximate Scale In Feet
1 inch = 50 feet

(26,000)

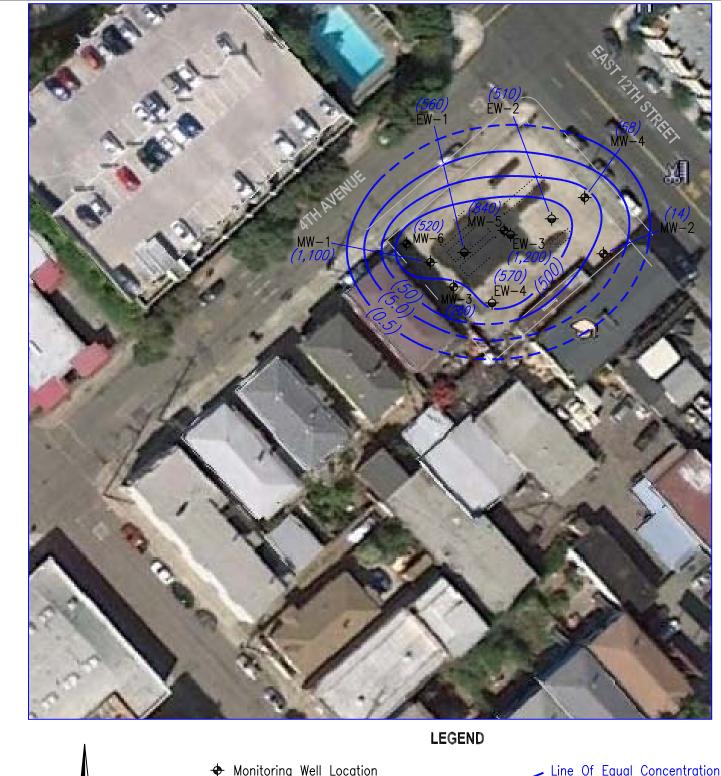
FIGURE 4

Project Number: GHA.19009

Date: February 23, 2015

TPHg IN GROUNDWATER ISOCONCENTRATION MAP DECEMBER 15, 2014





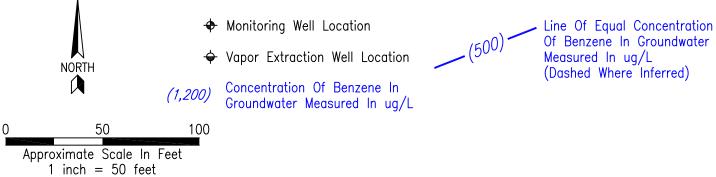


FIGURE 5

Project Number: GHA.19009

Date: February 23, 2015

BENZENE IN GROUNDWATER ISOCONCENTRATION MAP DECEMBER 15, 2014





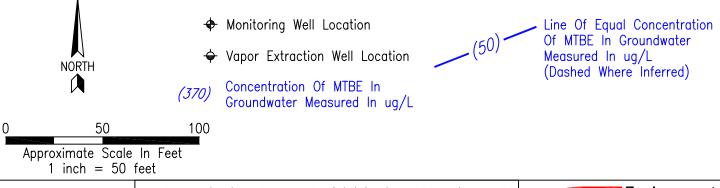


FIGURE 6

Project Number: GHA.19009

Date: February 25, 2015

MTBE IN GROUNDWATER ISOCONCENTRATION MAP DECEMBER 15, 2014



TABLES

Table 1 Well Construction Details

Shore Acres Gas 403 East 12th Street Oakland, California

Well ID	Date Installed	TOC Elevation (ft amsl)	Well Depth (ft bgs)	Casing Diameter (inches)	Casing Material	Screen/ Filter	Screen Interval (ft bgs)			
Monitoring Wells										
MW-1		30.81	20	2	PVC	0.020/#3	10-20			
MW-2		31.29	20	2	PVC	0.020/#3	10-20			
MW-3	June 2011	31.30	18	2	PVC	0.020/#3	8-18			
MW-4	June 2011	31.21	19	2	PVC	0.020/#3	9-19			
MW-5		31.35	20	2.	PVC	0.020/#3	10-20			
MW-6		30.79	20	2	PVC	0.020/#3	10-20			
Dual Phase	Extraction We	ells								
EW-1	1 2011	31.46	20	4	PVC	0.020/#3	5-20			
EW-2	June 2011	31.43	20	4	PVC	0.020/#3	5-20			
EW-3	N401/2012		20	6	PVC	0.020/#3	5-20			
EW-4	May 2012		20	6	PVC	0.020/#3	5-20			

Notes:

TOC - denotes top of casing

ft - denotes feet

amsi - denotes above mean sea level

bgs - denotes below ground surface

PVC - denotes polyvinyl chloride

Table 2a Historical Soil Analytical Data TPH and BTEX

Boring ID	Sample	Collection	TPHd	TPHg	Benzene	Toluene	Ethyl-	Total
	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	benzene	xylenes
	(feet)						(mg/kg)	(mg/kg)
UST Removal San	ples							
SS-D1	2		1,800*	3,000	<0.25	0.34	39	180
SS-D2	2]	900*	2,400	<0.25	<0.25	36	120
SS-D3	2	1	460*	1,000	<0.15	<0.15	12	14
SS-D4	2	1	540*	640	<0.090	1.0	6.1	51
SS-D5	2]	320	140	<0.025	<0.025	1.3	3.2
SS-D6	2.0		320*	260	<0.025	0.054	1.0	8.0
SS-J1	2.0]	39*	160	<0.025	<0.025	0.71	0.94
SS-Isle	4.0	August	560*	100	<0.025	<0.025	0.30	0.084
SS-7	18.0	2009	310*	1,600	6.9	76	39	200
Tank 1-SS-1	14.0	1	830*	2,500	4.2	100	69	360
Tank 1-SS-2	14.0	1	62*	480	1.8	5.3	14	62
Tank 2-SS-1	14.0	1	120*	290	0.37	2.4	6.3	31
Tank 2-SS-2	14.0	1	330*	80	0.074	0.051	1.2	5.8
Tank 3-SS-1	14.0	1	480*	2,100	2.4	41	62	320
Tank 3-SS-2	14.0	†	75*	130	0.23	0.26	3.1	15
Soil Borings	····			·	<u> </u>			
GP-1-15.5	15.5		13.0	18.0	0.63	0.052	0.69	0.13
GP-1-18.0	18.0	1	<1.0	<1.0	0.0056	0.0082	<0.005	0.019
GP-2-12.0	12.0	July 2006	600	3,600	17	180	98	440
GP-2-20.0	20.0	1	79	1,100	3.2	41	25	130
SB-1-9.5	9.5			1,600	5.1	43	30	180
SB-1-24.5	24.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-1-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-9.5	9.5	1	 -	2.2	0.26	<0.010	0.066	<0.020
SB-2-24.5	24.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-3-14.5	14.5	1		17	17	100	42	240
SB-3-24.5	24.5	1		<1.0	<0.005	0.005	<0.005	0.013
SB-3-29.5	29.5	1]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-4-14.5	14.5	1 1		1,700	13	79	28	170
SB-4-19.5	19.5	April 2010		<1.0	<0.005	0.009	<0.005	0.026
SB-4-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-14.5	14.5	1		470	<0.20	0.45	6.2	37
SB-5-24.5	24.5			<1.0	<0.005	<0.005	<0.005	<0.010
5B-5-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-9.5	9.5	1		6,100	21	170	95	580
SB-6-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-32	32.0	-		<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-9.5	9.5	•		4,000	12	46	55	360
SB-7-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-32	32.0	†		<1.0	<0.005	<0.005	<0.005	<0.010

Table 2a Historical Soil Analytical Data **TPH and BTEX**

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	TPHd	TPHg	Benzene	Toluene	Ethyl-	Total
1	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	benzene	xylenes
	(feet)	<u> </u>					(mg/kg)	(mg/kg)
SB-8-9.5	9.5			2,500	16	110	63	370
SB-8-24.5	24.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-8-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-14.5	14.5	April 2010		390	3.0	3.0	9.1	41
SB-9-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-32	32.0			<1.0	<0.005	<0.005	<0.005	<0.010
Groundwater Well						-		
MW-1-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-1-15	15	1	<5.0	18	0.55	<0.050	0.87	1.2
MW-1-20	20] [<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-10	10		<5.0	69	<0.005	<0.005	<0.005	<0.010
MW-2-15	15	1	<5.0	50	<0.050	0.48	3.1	19
MW-2-20	20]	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-3-5	5]	<5.0	<1.0	<0.010	<0.010	<0.010	<0.020
MW-3-10	10]	<15	840	3.4	33	20	140
MW-3-15	15]	<5.0	380	3.0	4.5	7.3	41
MW-3-20	20]	<5.0	<1.0	0.019	<0.005	0.006	<0.010
MW-4-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-4-10	10]	<15	420	1.7	2.6	9.2	51
MW-4-15	15		<5.0	3.1	0.036	0.20	0.15	0.95
MW-4-20	20	June 2011	<5.0	<1.0	0.007	0.017	0.010	0.039
MW-5-5	5	Julie 2011	<5.0	76	<0.10	<0.10	1.3	0.76
MW-5-10	10	}	<15	3,200	4.6	6.5	72	410
MW-5-15	15		<5.0	600	1.3	13	15	110
MW-6-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-10	10]	<5.0	5.1	0.015	<0.010	3.4	1.0
MW-6-15	15]	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-20	20]	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-1-5	. 5		<5.0	34	<0.005	<0.005	0.16	0.31
VW-1-10	10		<15	85	<0.10	<0.10	2.2	0.89
VW-1-15	15		<15	420	2.1	4.1	9.4	55
VW-1-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-10	10		<5.0	130	<0.10	<0.10	2.9	15
VW-2-15	15		<15	5,500	29	430	120	910
VW-2-20	20		<5.0	<1.0	0.14	0.054	0.025	0.14
								1

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel TPHg - denotes total petroleum hydrocarbons as gasoline mg/kg - denotes milligrams per kilogram < - denotes less than the detection limit

--- denotes no data

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Table 2b Historical Soil Analytical Data Oxygenates and Lead Scavengers

Boring ID	Sample	Collection	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
	Depth	Date	(mg/kg)						
	(feet)								
UST Removal San	nples	· · · · · · · · · · · · · · · · · · ·							
SS-D1	2		<0.25	<0.25	<0.25	<0.25	<1.5		
SS-D2	2	1 [<0.25	<0.25	<0.25	<0.25	<1:5		
SS-D3	2	1 1	<0.15	<0.15	<0.15	<0.15	<0.70		
SS-D4	2	1 [<0.090	<0.090	<0.090	<0.090	<0.50		
SS-D5	2	1 [<0.025	<0.025	<0.025	<0.025	<0.15		
SS-D6	2	1 [<0.025	<0.025	<0.025	<0.025	<0.15		
SS-J1	2	1	<0.025	<0.025	<0.025	<0.025	<0.15		
SS-Isle	4	August	<0.025	<0.025	<0.025	<0.025	<0.15		
SS-7	18	2009	<0.25	<0.25	<0.25	<0.25	<1.5	<0.25	<0.25
Tank 1-SS-1	14	1 [<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 1-SS-2	14	1 1	<0.040	<0.040	0.37	<0.040	0.51	<0.040	<0.040
Tank 2-SS-1	14	1	<0.050	<0.050	0.18	<0.050	0.35	<0.050	<0.050
Tank 2-SS-2	14	1	<0.025	<0.025	0.090	<0.025	0.16	<0.025	<0.025
Tank 3-SS-1	14	1	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 3-SS-2	14	1	<0.025	<0.025	0.19	<0.025	0.15	<0.025	<0.025
Soil Borings				<u></u>					
GP-1-15.5	15.5		<0.005	<0.005	0.029	<0.005	0.27		
GP-1-18.0	18.0	1	<0.005	<0.005	0.54	<0.005	0.33		
GP-2-12.0	12.0	July 2006	<0.50	<0.50	<0.50	<0.50	<2.5		
GP-2-20.0	20.0	1 1	<0.025	<0.025	0.041	<0.025	<0.15		
SB-1-9-5	9.5		<0.80	<0.80	<0.80	<0.80	<8.0	<0.80	<0.80
SB-1-24.5	24.5	1	<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005
SB-1-29.5	29.5	j	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-2-9.5	9.5	1 1	<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
SB-2-24.5	24.5	1 1	<0.005	<0.005	0.053	<0.005	<0.050	<0.005	<0.005
SB-2-29.5	29.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-3-14.5	14.5	1	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-3-24.5	24.5	1	<0.005	<0.005	0.10	<0.005	<0.050	<0.005	<0.005
SB-3-29.5	29.5	1	<0.005	<0.005	0.010	<0.005	<0.050	<0.005	<0.005
SB-4-14.5	14.5		<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0
SB-4-19.5	19.5	April 2010	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-4-29.5	29.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-14.5	14.5	1	<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.20
SB-5-24.5	24.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-29.5	29.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-6-9.5	9.5	1 .	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-6-29.5	29.5	1	<0.005	<0.005	0.20	<0.005	<0.050	<0.005	<0.005
SB-6-32	32.0	1	<0.005	<0.005	0.18	<0.005	<0.050	<0.005	<0.005
SB-7-9.5	9.5	1	<1.0	<1.0	4.0	<1.0	<10	<1.0	<1.0
SB-7-29.5	29.5	1	<0.005	<0.005	0.18	<0.005	<0.050	<0.005	<0.005
SB-7-32	32.0	1	<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005

Table 2b Historical Soil Analytical Data Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB
_	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	(feet)								
SB-8-9.5	9.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-8-24.5	24.5	1	<0.005	<0.005	0.033	<0.005	<0.050	<0.005	<0.005
SB-8-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	< 0.005	<0.005
SB-9-14.5	14.5	April 2010	<0.20	<0.20	5.5	<0.20	<2.0	<0.20	<0.20
SB-9-29.5	29.5		<0.005	<0.005	0.090	<0.005	0.15	<0.005	<0.005
SB-9-32	32.0		<0.005	<0.005	0.11	<0.005	<0.050	< 0.005	<0.005
Groundwater Well	s								
MW-1-5	5		<0.005	<0.005	0.35	<0.005	0.093	<0.005	<0.005
MW-1-15	15]	<0.050	<0.050	1.1	<0.050	<0.50	<0.050	<0.050
MW-1-20	20		<0.005	<0.005	0.31	<0.005	0.58	<0.005	<0.005
MW-2-5	5] [<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-2-10	10		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-15	15		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-20	20		<0.005	<0.005	0.006	<0.005	<0.050	<0.005	<0.005
MW-3-5	5		<0.010	<0.010	1.5	<0.010	0.37	<0.010	<0.010
MW-3-10	10		<0.80	<0.80	1.3	<0.80	<8.0	<0.80	<0.80
MW-3-15	15		<0.20	<0.20	3.0	<0.20	<2.0	<0.20	<0.20
MW-3-20	20] [<0.005	<0.005	0.036	<0.005	0.16	<0.005	<0.005
MW-4-5	5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-4-10	10		<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-4-15	15		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-4-20	20	June 2011	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-5-5	5	Julie 2011	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
MW-5-10	10		<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
MW-5-15	1 5		<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-6-5	5] [<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-6-10	10		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-6-15	15		<0.005	<0.005	0.026	<0.005	0.088	<0.005	<0.005
MW-6-20	20		<0.005	<0.005	0.010	<0.005	0.37	<0.005	<0.005
VW-1-5	5		<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
VW-1-10	10]	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
VW-1-15	15		<0.40	<0.40	0.59	<0.40	<4.0	<0.40	<0.40
VW-1-20	20]	<0.005	<0.005	0.009	<0.005	0.16_	<0.005	<0.005
VW-2-5	5]	<0.005	<0.005	0.25	<0.005	0.14	<0.005	<0.005
VW-2-10	10]	<0.10	<0.10	0.33	<0.10	<1.0	<0.10	<0.10
VW-2-15	15] [<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
VW-2-20	20] '	<0.005	<0.005	0.008	<0.005	0.26	<0.005	<0.005
							<u> </u>		

Notes:

mg/kg - denotes milligrams per kilogram MTBE -

denotes methyl tertiary butyl ether

< - denotes less than the detection limi DIPE -

denotes di-isopropyl ether

--- - denotes not analyzed/applicable ETBE -

denotes ethyl tertiary butyl ether

DCA - denotes dichloroethane

TAME - denotes tertiary amyl ether

EDB - denotes ethylene dibromide

TBA - denotes tertiary butyl alcohol

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Table 3a Grab Groundwater Sample Results TPH and BTEX

Shore Acres Gas 403 East 12th Street Oakland, California

Sample ID	Collection					Ethyl-	Total
	Date	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Excavation		<u> </u>	•				
,	August						
Pit Sample 1	2009	21,000	21,000	3,800	1,000	1,200	3,700
Direct Push Gra	b Groundwa	ter Sampl	es				
SB-1			60	2.9	6.7	2.1	9.7
SB-2			<50	<0.5	<0.5	<0.5	<1.0
SB-3			170	1.5	11	4.8	27
SB-4			6,500	78	440	190	960
SB-5	April 2010		<50	<0.5	<0.5	<0.5	<1.0
SB-6			440	<20	<20	<20	<40
SB-7		¬	270	<12	<12	<12	<25
SB-8			<50	0.6	1.3	0.6	3.3
SB-9			<50	<10	<10	<10	<20
SB-10			<50	<0.5	<0.5	<0.5	<1.0
SB-11			2,300	83	1.9	140	43
SB-12			4,700	620	290	84	400
SB-13			400	51	2.4	4.2	9.7
SB-14	December		<50	1.7	<0.5	2.1	<1.0
SB-15	2011		320	32	0.7	33	25
SB-16	2011		4,800	1,600	10	49	<20
SB-17			990	290	7.2	27	4.3
SB-18			560	8.7	4.9	23	83
SB-19			260	7.1	<0.5	16	7.0
SB-21			<50	<0.5	<0.5	<0.5	<1.0

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel

TPHg - denotes total petroleum hydrocarbons as gasoline

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

--- - denotes not analyzed/applicable

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Table 3b Grab Groundwater Sample Results Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Sample ID	Collection	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB		
-	Date	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		
				,	, 0. ,	. 5	` •			
Excavation										
	February	<10	<10	15,000	39	17,000	<10	<10		
Water	2000									
Direct Push Gra	b Groundwa	ter Sampl	es							
SB-1		<0.5	<0.5	14	<0.5	<5.0	<0.5	<0.5		
SB-2] [<0.5	<0.5	45	<0.5	<5.0	<0.5	<0.5		
SB-3		<0.5	<0.5	110	<0.5	32	<0.5	<0.5		
SB-4] [<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0		
SB-5	April 2010	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5		
SB-6		<20	<20	4,000	<20	<200	<20	<20		
SB-7]	<12	<12	2,500	<12	<120	<12	<12		
SB-8] [<0.5	<0.5	26	<0.5	98	<0.5	<0.5		
SB-9		<10	<10	1,800	<10	5,300	<10	<10		
SB-10		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
SB-11		<1.0	<1.0	22	<1.0	140	<1.0	<1.0		
SB-12]	<5.0	<5.0	100	<5.0	550	<5.0	<5.0		
SB-13		<2.0	<2.0	39	<2.0	3,900	<2.0	<2.0		
SB-14	December -	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
SB-15	l l	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
SB-16	2011	<10	<10	<10	<10	<100	<10	<10		
SB-17		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0		
SB-18		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
SB-19		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
SB-21		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5		
		·								

Notes:

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

DCA - denotes dichloroethane

EDB - denotes ethylene dibromide

MTBE - denotes methyl tertiary butyl ether

DIPE - denotes di-isopropyl ether

ETBE - denotes ethyl tertiary butyl ether

TAME - denotes tertiary amyl ether

TBA - denotes tertiary butyl alcohol

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Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
Monitoring								· · · · · ·	
MW-1	6/23/2011	10.46	20.35	<250	23,000	4,500	820	1,700	3,800
	9/22/2011	12.13	18.68	<50	21,000	4,000	1,500	980	3,000
	12/11/2011	11.69	19.12		23,000	2,900	1,000	720	3,000
	3/30/2012	. ,			Inaccessible				
	6/1/2012	11.04	19.77		40,000	4,100	800	2,700	6,100
	9/14/2012	12.96	17.85	<100	20,000	2,700	160	830	2,600
	3/27/2013	8.57	22.24	<50	15,000	1,700	150	400	830
	5/20/2013	8.57	22.24	<100	22,000	2,800	870	560	2,000
	9/4/2013	9.29	21.52	<250	12,000	2,900	130	190	370
	12/6/2013	9.11	21.70	<120	15,000	3,000	780	580	2,400
	6/27/2014	8.92	21.89	<120	15,000	2,500	280	2,400	2,400
	9/19/2014	10.98	19.83		11,000	530	190	460	950
	12/15/2014	7.66	23.15		11,000	1,100	140	310	420
MW-2	6/23/2011	10.70	20.59	<250	13,000	1,000	160	370	1,600
	9/22/2011	12.42	18.87	<50	12,000	300	130	470	1,400
	12/11/2011	11.98	19.31		8,300	170	120	450	1,500
	3/30/2012	8.55	22.74	<250	17,000	850	700	710	2,900
	6/1/2012	11.26	20.03		5,300	830	260	630	1,700
	9/14/2012	13.11	18.18	<50	10,000	260	190	600	1,900
	3/27/2013	9.43	21.86	<50	12,000	440	98	320	810
	5/20/2013	9.41	21.88	<100	6,600	300	74	190	500
	9/4/2013	10.11	21.18	<100	5,300	300	50	180	280
	12/6/2013	9.93	21.36	<50	4,300	280	39	140	160
	6/27/2014	9.93	21.36	<50	1,300	200	22	85	160
	9/19/2014	12.49	18.80		990	4 2	12	97	110
	12/15/2014	8.65	22.64		85	14	3.3	5.2	13
								-	
MW-3	6/23/2011	10.79	20.51	<250	55,000	15,000	3,600	2,000	4,300
	9/22/2011	12.60	18.70	<250	77,000	15,000	3,900	1,700	4,900
	12/11/2011	12.13	19.17		64,000	12,000	3,100	1,600	4,500
	3/30/2012	7.90	23.40	<120	100,000	17,000	10,000	2,000	8,400
	6/1/2012	11.47	19.83		83,000	15,000	6,000	2,900	10,000
	9/14/2012	13.42	17.88	<200	69,000	10,000	1,500	1,800	5,900
	3/27/2013	9.15	22.15	<200	63,000	7,100	2,100	1,900	7,700
	5/20/2013	9.16	22.14	<250	80,000	9,700	2,900	2,400	8,600
	9/4/2013	9.87	21.43	<250	47,000	7,200	470	1,200	5,000
	12/6/2013	9.69	21.61	<50	19,000	5,600	240	520	1,600
	6/27/2014	9.49	21.81	<50	12,000	5,800	240	860	760
	9/19/2014	11.62	19.68		9,500	610	160	220	400
	12/15/2014	8.10	23.20		1,300	260	69	39	120_

Shore Acres Gas 403 East 12th Street Oakland, California

Well ID TOC	Date Measured	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft amsl)	TPHd (ug/L)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
MW-4	6/23/2011	10.62	20.59	<250	47,000	3,500	7,100	2,300	11,000
	9/22/2011	12.25	18.96	<250	46,000	2,000	2,400	1,100	5,300
	12/11/2011	11.89	19.32	7	46,000	2,100	3,400	1,800	7,000
	3/30/2012	8.51	22.70	<250	60,000	6,800	8,200	1,200	5,700
	6/1/2012	11.14	20.07		72,000	9,700	8,500	2,300	9,000
	9/14/2012	12.97	18.24	<50	15,000	940	880	450	1,700
	3/27/2013	9.05	22.16	<50	25,000	1,800	2,200	660	2,500
	5/20/2013	9.03	22.18	<250	18,000	1,600	1,700	470	1,900
	9/4/2013	9.68	21.53	<50	15,000	510	410	260	820
	12/6/2013	9.54	21.67	<50	9,600	630	650	240	970
	6/27/2014	9.58	21.63	<50	3,300	550	2,900	200	420
	9/19/2014	11.61	19.60		2, 10 0	110	54	92	210
	12/15/2014	8.45	22.76	1	720	58	32	29	33
MW-5	6/23/2011	10.12	21.23	<250	130,000	7,100	25,000	13,000	94,000
	9/22/2011	12.53	18.82	<250	120,000	6,900	7,600	3,800	17,000
	12/11/2011	12.09	19.26		110,000	7,800	14,000	4,200	20,000
	3/30/2012	8.06	23.29	,	•	Sheen - no	ot sampled		
	6/1/2012	11.38	19.97			Sheen - no	ot sampled		
	9/14/2012	13.61	17.74		Fi	ree product	- not sample	ed	
	3/27/2013	9.21	22.14		Fo	ree product	- not sample	ed .	
	5/20/2013	9.17	22:18		· · · · · Fi	ree product	- not sample	ed	
	9/4/2013	9.70	21.65		F	ree product	- not sample	ed	
	12/6/2013	9.67	21.68	<250	81,000	10,000	13,000	5,500	21,000
	6/27/2014	9.51	21.84		F	ree product	- not sample	ed	
	9/19/2014	12.91	18.44		56,000	1,000	270	1,000	4,100
	12/15/2014			~~~	13,000	840	530	450	1,700
									·
MW-6	6/23/2011	10.43	20.36	<250	11,000	2,400	120	480	840
	9/22/2011	12.10	18.69	<50	15,000	1,500	270	880	2,500
	12/11/2011	11.69	19.10		13,000	660	190	610	1,500
	3/30/2012	7.50	23.29	<250	9,500	1,200	160	250	520
	6/1/2012	11.04	19.75		23,000	2,200	220	1,300	3,000
	9/14/2012	12.96	17.83	<50	14,000	1,000	86	420	1,200
	3/27/2013					''	essible		
	5/20/2013		nom				essible		
	9/4/2013	9.19	21.60	<100	9,500	1,400	120	1,400	1,600
	12/6/2013	9.03	21.76	<100	14,000	1,200	24	1,400	810
	6/27/2014	8.80	21.99	<100	9,800	1,200	75	2,800	530
	9/19/2014	10.68	20.11		6,500	240	21	490	110
	12/15/2014	7.62	23.17		4,700	520	25	110	43

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Well	Date Measured	Depth to Groundwater	Groundwater Elevation	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
TOC	Micasarca	(ft bgs)	(ft amsl)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
DPE Wells		(**************************************	(10 0011)04	1-6/-/	1-5/ -/	1-6/-/	(-6) -/	1-8/-/	(46/ -)
EW-1	6/28/2011				20,000	2,000	490	1,000	2,400
	9/22/2011	12.55	18.71	<120	39,000	3,900	610	1,400	4,600
	12/11/2011	12.09	19.17		27,000	2,600	270	1,400	4,400
	3/30/2012	8.06	23.20	<120	21,000	3,100	160	910	2,300
	6/1/2012	11.42	19.84		21,000	2,800	100	1,200	3,100
	9/14/2012	13.37	17.89	<50	22,000	1,900	50	1,000	2,600
	3/27/2013	9.06	22.20	<50	15,000	630	36	360	590
	5/20/2013	9.06	22.20	<100	11,000	600	28	210	350
· ·	9/4/2013	9.77	21.49	<50	9,300	610	19	170	250
 -	12/6/2013	9.63	21.83	<100	11,000	740	17	260	340
	6/27/2014	9.55	21.91	<100	12,000		210		
	9/19/2014	12,41	19.05		· ·	1,400	450	1,900	2,400
	12/15/2014	8.20	23.26		28,000 4.000	1,000 560		1,400	3,900
	12/13/2014	8.20	23.26		4,000	360	29	150	150
EW-2	6/28/2011				33,000	3,100	2,000	790	2 500
211 2	9/22/2011	12.50	18.90	<250	66,000	2,400	4,500	2,000	3,500 11,000
	12/11/2011	12.12	19.28	~230	70,000	2,800	6,900	2,700	13,000
	3/30/2012	8.48	22.92	<250	57,000	5,800	5,500	1,200	5,400
	6/1/2012	11.40	20.00	\Z30	82,000	8,800	8,600	3,300	13,000
	9/14/2012	13.27	18.13	<100	32,000	2,600	2,400	1,000	-
	3/27/2013	9.24	22.16	<100	18,000	940	790	390	4,500 1,700
	5/20/2013	9.21	22.19	<50	10,000	540	430	220	
	9/4/2013	9.88	21.52	<250	10,000	680	580	480	790 1,700
	12/6/2013	9.96	21.47	<50	13,000	620	380	350	1,600
	6/27/2014	9.85	21.58	<50	27,000	3,200	5,600	1,200	8,000
	9/19/2014	16.80	14.63		18,000	690	1,300	360	2,400
	12/15/2014	8.73	22.70		11,000	510	500	160	1,100
	12/13/2014	0.75	22.70		11,000	310	500	100	1,100
EW-3	5/20/2013	8.82		<50	1,300	430	540	280	1,000
	9/4/2013	9.49	****	<100	9,800	480	220	560	1,800
	12/6/2013	10.05		<50	10,000	810	580	260	1,100
	6/27/2014	9.90		<50	27,000	4,300	4,300	1,200	7,900
	9/19/2014	13.00	***		15,000	670	650	530	2,400
	12/15/2014	8.20			26,000	1,200	1,100	350	2,000
		5,20			20,000	1,200	1,100	350	2,000
EW-4	5/20/2013	9.12		<50	8,100	720	160	94	430
	9/4/2013	9.85		<250	11,000	990	580	310	1,200
	12/6/2013	9.62		<50	4,400	150	170	140	670
	6/27/2014	9.47		<50	8,400	1,500	940	540	2,100
· · · · · · · · · · · · · · · · · · ·	9/19/2014	12.48			9,000	680	1,600	450	3,000
	12/15/2014	8.50			7,700	570	1,000	320	1,000
	22/10/2014	3.30		708	7,700	3/0	1/0	320	1,000

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	Depth to	Groundwater					Ethyl-	Total
ID	Measured	Groundwater	Elevation	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes
тос		(ft bgs)	(ft.amsl)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)

Notes:

TOC - denotes top of casing elevation

TPHg - denotes total petroleum hydrocarbons as gasoline TPHd - denotes total petroleum hydrocarbons as diesel

ft bgs - denotes feet below top of casing ft amsl - denotes feet above mean sea level ug/L - denotes micrograms per liter < - denotes less than the detection limit

<- denotes less than the detection limit ---- denotes not available/applicable FLH - denotes floating liquid hydrocarbons

* - denotes less than six inches of water and considered dry

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Well	Date	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB	
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
TOC						<u> </u>			
Monitoring	g Wells			_					
MW-1	6/23/2011	<25	<25	3,000	<25	3,900	<25	<25	
	9/22/2011	<50	<50	2,600	<50	2,500	<50	<50	
	12/11/2011	<20	<20	1,800	<20	1,600	<20	<20	
	3/30/2012		···		Inaccessible	9			
	6/1/2012	<20	<20	2,800	<20	1,300	<20	<20	
	9/14/2012	<10	<10	2,200	<10	1,600	<10	<10	
	3/27/2013	<0.5	<0.5	590	<0.5	350	<0.5	<0.5	
	5/20/2013	<10	<10	1,100	<10	620	<10	<10	
	9/4/2013	<10	<10	240	<10	<100	<10	<10	
	12/6/2013	<5.0	<5.0	350	<50	<100	<5.0	<5.0	
	6/27/2014	<10	<10	97	<10	<100	<10	<10	
	9/19/2014	<10	<10	150	<10	<100	<10	<10	
	12/15/2014	<0.5	<0.5	310	<0.5	98	<0.5	<0.5	
MW-2	6/23/2011	<10	<10	240	<10	640	<10	<10	
	9/22/2011	<5.0	<5.0	110	<5.0	260	<5.0	<5.0	
	12/11/2011	<2.5	<2.5	45	<2.5	110	<2.5	<2.5	
	3/30/2012	<5.0	<5.0	140	<5.0	490	<5.0	<5.0	
	6/1/2012	<5.0	<5.0	180	<5.0	490	<5.0	<5.0	
	9/14/2012	<5.0	<5.0	65	<5.0	190	<5.0	<5.0	
	3/27/2013	<0.5	<0.5	120	<0.5	930	<0.5	<0.5	
	5/20/2013	<2.5	<2.5	120	<2.5	1,800	<2.5	<2.5	
	9/4/2013	<5.0	<5.0	100	<5.0	780	<5.0	<5.0	
-	12/6/2013	<5.0	<5.0	63	<5.0	230	<5.0	<5.0	
	6/27/2014	<5.0	<5.0	21	<5.0	<50	<5.0	<5.0	
	9/19/2014	<5.0	<5.0	1.6	<5.0	<50	<5.0	<5.0	
	12/15/2014	<0.5	<0.5	7.3	<0.5	23	<0.5	<0.5	
		•••							
MW-3	6/23/2011	<1.00	<100	8,200	<100	6,400	<100	<100	
	9/22/2011	<100	<100	11,000	<100	2,800	<1.00	<100	
	12/11/2011	<100	<100	7,400	<100	1,800	<100	<100	
•	3/30/2012	<100	<100	13,000	<100	<1,000	<100	<100	
	6/1/2012	<50	<50	12,000	<50	<500	<50	<50	
	9/14/2012	<50	<50	9,400	<50	<500	<50	<50	
	3/27/2013	<0.5	<0.5	7,900	<0.5	3,800	<0.5	<0.5	
	5/20/2013	<25	<25	10,000	<25	5,000	<25	<25	
	9/4/2013	<25	<25	5,300	<25	2,100	<25	<25	
	12/6/2013	<25	<25	1,400	<25	640	<25	<25	
	6/27/2014	<25	<25	520	<25	260	<25		
	9/19/2014	<25	<25	390	<25	370	<25	<25	
	12/15/2014	<0.5	<0.5	110	<0.5	140	<0.5	<0.5	
	12/13/2014		v.a	110	~0.3	140	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	

Well	Date	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB					
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)					
TOC													
MW-4	6/23/2011	<50	<50	<50	<50	<500	<50	<50					
	9/22/2011	<25	<25	<25	<25	<250	<25	<25					
	12/11/2011	<25	<25	<25	<25	<250	<25	<25					
	3/30/2012	<50	<50	<50									
	6/1/2012	<50	<50	180	<50	<500	<50	<50					
	9/14/2012	<20	<20	<20	<20	<200	<20	<20					
	3/27/2013	<0.5	<0.5	77	<0.5	450	<0.5	<0.5					
	5/20/2013	<10	<10	61	<10	360	<10	<10					
	9/4/2013	<2.5	<2.5	17	<2.5	64	<2.5	<2.5					
	12/6/2013	<2.5	<2.5	6.6	<2.5	<25	<2.5	<2.5					
	6/27/2014	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5					
	9/19/2014	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5					
	12/15/2014	<0.5	<0.5	<0.5	<0.5	13	<0.5	<0.5					
MW-5	6/23/2011	<120	<120	440	<120	<1,200	<120	<120					
	9/22/2011	<50	<50	670	<50	1,500	<50	<50					
	12/11/2011	<120	<120	690	<120	1,600	<120	<120					
	3/30/2012			She	en - not sam	pled		•					
	6/1/2012				en - not sam								
	9/14/2012			Free pr	oduct - not :	sampled		-					
	3/27/2013	Free product - not sampled											
	5/20/2013	Free product - not sampled											
	9/4/2013	Free product - not sampled											
	12/6/2013	<25 <25 270 <25 <250 <25 <25											
	6/27/2014	Free product - not sampled											
	9/19/2014	<25 <25 75 <25 <25 <25											
	12/15/2014	<0.5	<0.5	370	<0.5	340	<0.5	<0.5					
MW-6	6/23/2011	<25	<25	1,100	<25	4,000	<25	<25					
	9/22/2011	<12	<12	600	<12	2,800	<12	<12					
	12/11/2011	<10	<10	290	<10	1,300	<10	<10					
	3/30/2012	<10	<10	990	<10	3,500	<10	<10					
	6/1/2012	<10	<10	1,400	<10	2,200	<10	<10					
	9/14/2012	<10	<10	580	<10	2,000	<10	<10					
	3/27/2013				Inaccessible			"					
	5/20/2013	Inaccessible											
	9/4/2013	<5.0	<5.0	29	<5.0	140	<5.0	<5.0					
	12/6/2013	<2.5	<2.5	12	<2.5	<25	<2.5	<2.5					
	6/27/2014	<2.5	<2.5	4.9	<2.5	<25	<2.5	<2.5					
	9/19/2014	<2.5	<2.5	7.1	<2.5	<25	<2.5	<2.5					
	12/15/2014	<0.5	<0.5	33	<0.5	88	<0.5	<0.5					
		-	-		_			<u> </u>					

Well	Date	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB	
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
TOC									
DPE Wells	i								
EW-1	6/28/2011	<25	<25	1,500	<25	5,300	<25	<25	
	9/22/2011	<50	<50	640	<50	1,800	<50	<50	
	12/11/2011	<25	<25	490	<25	1,000	<25	<25	
	3/30/2012	<20	<20	370	<20	1,100	<20	<20	
	6/1/2012	<25	<25	500	<25	1,700	<25	<25	
	9/14/2012	<10	<10	370	<10	1,400	<10	<10	
	3/27/2013	<0.5	<0.5	270	<0.5	560	<0.5	<0.5	
	5/20/2013	<5.0	<5.0	250	<5.0	560	<5.0	<5.0	
	9/4/2013	<2.5	<2.5	220	<2.5	590	<2.5	<2.5	
	12/6/2013	<2.5	<2.5	130	<2.5	270	<2.5	<2.5	
	6/27/2014	<10	<10	40	<10	<100	<10	<10	
	9/19/2014	<20	<20	300	<20	<200	<20	<20	
	12/15/2014	<0.5	<0.5	170	<0.5	110	<0.5	<0.5	
EW-2	6/28/2011	<25	<25	670	<25	4,100	<25	<25	
,	9/22/2011	<50	<50	740	<50	1,600	<50	<50	
	12/11/2011	<50	<50	540	<50	880	<50	<50	
	3/30/2012	<50	<50	1,800	<50	2,800	<50	<50	
	6/1/2012	<50	<50	2,600	<50	3,300	<50	<50	
	9/14/2012	<20	<20	1,100	<20	-2,400	<20	<20-	
	3/27/2013	<0.5	<0.5	360	<0.5	1,800	<0.5	<0.5	
	5/20/2013	<2.5	<2.5	390	<2.5	2,600	<2.5	<2.5	
	9/4/2013	<5.0	<5.0	460	<5.0	1,400	<5.0	<5.0	
	12/6/2013	<10	<10	210	<10	560	<10	<10	
	6/27/2014	<10	<10	110	<10	<50	<10	<10	
	9/19/2014	<25	<25	96	<25	<250	<25	<25	
	12/15/2014	<0.5	<0.5	94	<0.5	66	<0.5	<0.5	
			.0.5	<u> </u>	10.5		10.5	10.5	
EW-3	5/20/2013	<2.5	<2.5	140	<2.5	1,100	<2.5	<2.5	
	9/4/2013	<2.5	<2.5	120	<2.5	650	<2.5	<2.5	
***	12/6/2013	<2.5	<2.5	96	<2.5	690	<2.5	<2.5	
	6/27/2014	<5.0	<5.0	150	<5.0	360	<5.0	<5.0	
	9/19/2014	<25	<25	75	<25	<250	<25	<25	
·	12/15/2014	<0.5	<0.5	160	<0.5	700	<0.5	<0.5	
		-5,5		100	10.5	700	10.5	- 10.5	
EW-4	5/20/2013	<5.0	<5.0	480	<5.0	1,900	<5.0	<5.0	
	9/4/2013	<5.0	<5.0	220	<5.0	1,300	<5.0	<5.0	
	12/6/2013	<5.0	<5.0	58	<5.0	430	<5.0	<5.0	
	6/27/2014	<2.5	<2.5	82	<2.5	65	<2.5	<2.5	
	9/19/2014	<20	<20	120	<20	520	<20	<20	
	12/15/2014	<0.5	<0.5	100	<0.5	110	<0.5	<0.5	
	12, 13, 2017		70.0	700	70.3	110	~0.5	\0. 5	

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
тос					. – .			

Notes:

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

DCA - denotes dichloroethane

EDB - denotes ethylene dibromide

MTBE - denotes methyl tertiary butyl ether

DIPE - denotes di-isopropyl ether

ETBE - denotes ethyl tertiary butyl ether

TAME - denotes tertiary amyl ether

TBA - denotes tertiary butyl alcohol

--- - denotes no data available

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Table 5a **Soil Vapor Extraction System Performance Calculations**

Shore Acres Gas 403 East 12th Street Oakland, California

-		Influent	Influe	nt Sample R	Results	Extrac	tion Rates (lb/day)	Cumula	ative Extract	tion (lb)			
Date	Meter* (hours)	Flow Rate (scfm)	TPHg (ppmv)	Benzene (ppmv)	MTBE (ppmv)	TPHg (lb/day)	Benzene (lb/day)	MTBE (lb/day)	TPHg (lb)	Benzene (lb)	MTBE (lb)			
05/27/14	590.3	106.0	2,500	14	0.73	112	0.5	0.0	2,745	11.4	0.7			
06/17/14	961.5	125.0	40	1.4	0.18	2.1	0.05	0.0	2,778	12.3	0.8			
06/27/14	988.2		Unit shut down for Carbon Change Out											
08/15/14	988.2					Resta	art Unit							
08/19/14	992.6	125.0	33	0.79	0.13	1.7	0.03	0.0	2,780	12.3	0.8			
09/25/14	1,535.7	163.0	2,100	15	< 1.0	144	0.77	0.1	6,042	29.7	2.1			
10/28/14	1,750.4	146.0	130	2.4	0.44	8	0.11	0.0	6,114	30.6	2.3			
12/09/14	2,142.4	154.0	610	2.6	0.23	40	0.13	0.0	6,760	32.7	2.5			
				<u> </u>										

 MW_{TPHq} = Molecular Weight of TPHg = 105

MW_{MTBE} = Molecular Weight of Methyl tert-butyl ether = 88.15

MW_{Benzene} = Molecular Weight of Benzene = 78.11

days of operation during quarter

25.3

ft3 = cubic feet

min = minutes

lb/day = pounds per day

ppmv = parts per million by volume = $ft^3 / 1x10^6 ft^3$ scfm = standard cubic feet per minute

NS = not sampled

NA = not analyzed

NC = not calculated

Extraction rate = (flow rate(ft³/min) x concentration (ft³ / 1x10⁶ ft³) x MW_{TPHq}(lb/lb-mol) x 1440 min/day)/(359 ft³/lb-mol*)

* - Hour meter readings does not match field data sheets because hour meter was 5472.6 when unit was started.

Table 5b Soil Vapor Extraction System Destruction Efficiency and Emission Calculations

Shore Acres Gas 403 East 12th Street Oakland, California

scfm)	TPHg	Benzene	MTBE			i			
			MILDE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
106.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
163.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.003	< 0.006	100.0		100.0
146.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0		100.0
154.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005		 	100.0
1:	25.0 25.0 63.0 46.0	25.0 < 5.0 25.0 < 5.0 63.0 < 5.0 46.0 < 5.0	25.0 < 5.0	25.0 < 5.0	25.0 < 5.0	25.0 < 5.0	25.0 < 5.0	25.0 < 5.0	25.0 < 5.0 < 0.050 < 0.10 < 0.2 < 0.002 < 0.004 100.0 100.0 25.0 < 5.0

Note: "<" indicates analytical method detection limit; method detection limits are used as stack concentrations to estimate emission rates. Destruction efficiency is assumed to be 100%.

Sample Calculations

Emission rate = flow rate(ft^3 /min) x concentration (ft^3 / 1x10⁶ ft^3) x MW (lb/lb-mole)/359 (ft^3 /lb-mole*) x 1440 min/day

Destruction Efficiency = [(Extraction rate - Emission rate)/Extraction rate] x 100%

Stack flow = Catox Influent + Natural Gas flow rate

lb/day = pounds per day

ft3 = cubic feet

ppmv = parts per million by volume = $ft^3 / 1x10^6 ft^3$

NS = not sampled

min = minutes

scfm = standard cubic feet per minute

NA = Not applicable

Table 5c Groundwater Treatment System Performance Data

Shore Acres Gas 403 East 12th Street Oakland, California

	l l	AVG. PERIOD		Water Analytica			ated Removal	Rates	Estima	ated Removal (Period)	Estimate	d Removal (Cu	mulative)
	FLOW (gallons)	FLOW RATE (gallons/min)	TPHg (ug/L)	Benzene (ug/L)	MTBE (ug/L)	TPHg (lb/day)	Benzene (lb/day)	MTBE (lb/day)	TPHg (pounds)	Benzene (pounds)	MTBE (pounds)	TPHg (pounds)	Benzene (pounds)	MTBE (pounds)
04/30/14	189,810		Unit Start Up											
06/27/14	358,850	2.02	18,600	2,600	96	0.45	0.063	0.002	26.21	3.66	0.13	26.21	3.66	0.13
08/19/14	360,060						Unit Stut Do	wn for Carbon		<u> </u>	0.10	20.21	3.00	0.13
09/25/14	463,050	1.93	17,500	760	148	0.41	0.018	0.003	15.03	0.65	0.13	41,24	4.32	0.26
12/15/14	613,230	1.29	12,175	710	131	0.19	0.011	0.002	15.24	0.89	0.16	56.48	5.21	0.43
										- 0.00	0.10	- 50.40	3,21	0.43

104,200 total gallons pumped during current reporting period

1737 average gallons per day during current reporting period

1.2 average gallons per minute during current reporting period

Notes:

Influent concentrations are an average of extraction wells EW-1 through EW-4 Groundwater flow meter was 189,910 when unit was started up

Sample Calculations:

Extraction/ disposal rate = flow rate(gallons/min) * concentration (ug/L) * 3.785 L/gallon *lb/454,000,000 ug * 1440 min/day

NC - Not calculated

MTBE - Methyl tertiary butyl ether

NS - Not Sampled

TPHg - Total Petroleum Hydrocarbons as gasoline

-- - Not Analyzed TBA -Tertiary butyl ether

15.24

0.89

0.16

lb/day - pounds per day

ug/L - micrograms per liter

APPENDICES

ENVIRONMENTAL COMPLIANCE GROUP, LLC STANDARD OPERATING AND SAFETY AND LOSS CONTROL PROCEDURES

1.0 SOIL BORING/DRILLING SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

ECG will prepare a site-specific Health and Safety Plan as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR.1910.120). The document will be reviewed and signed by all ECG personnel and subcontractors prior to performing work at the site.

Prior to conducting and subsurface work at the site, Underground Services Alert (USA) will be contacted to delineate subsurface utilities near the site with surface markings. In addition, the first five feet of every location will be hand cleared to a diameter larger than the diameter of the auger or probe as a further precaution against damaging underground utilities. Sites that are currently operated as gas stations will be cleared with a private utility locator prior to drilling activities.

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes. The tubes are placed in an 18-inch long split-barrel sampler. The split-barrel sampler is driven its entire length hydraulically or by 140-pound drop hammer. The split-barrel sampler is removed from the borehole and the tubes are removed. When the tubes are removed from the split-barrel sampler, the tubes are trimmed and capped with Teflon sheets and plastic caps or the soil is removed from the tubes and placed in other appropriate sample containers. The samples are sealed, labeled, and placed in ice under chain-of-custody to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

One soil sample collected from each split-barrel sampler is field screened with a photoionization detector (PID), flame ionization detector (FID), or other equivalent field screening meter. The soil sample is sealed in a plastic bag or other appropriate container to allow volatilization of volatile organic compounds (VOCs). The field meter is used to measure the VOC concentration in the container's headspace and is recorded on the boring logs at the appropriate depth interval.

Other soil samples collected from each split-barrel sampler are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded on boring logs with the appropriate depth interval and any pertinent field observations. Drilling and sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and boreholes and after use.

2.0 SOIL EXCAVATION SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes or other appropriate containers. The samples are sealed, labeled, and placed in ice under chain-of-custody (COC) to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

Select soil samples are placed into a sealed plastic bag or other appropriate container and field screened using a PID, FID, or equivalent meter. Other soil samples collected are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded field notes with the appropriate depth interval and any pertinent field observations. Sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections, and after use. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

3.0 SAMPLE IDENTIFICATION AND COC PROCEDURES

Sample containers are labeled with job number, job name, sample collection time and date, sample collection point, and analyses requested. Sampling method, sampler's name, and any pertinent field observations are recorded on boring logs or excavation field notes. COC forms track the possession of the sample from the time of its collection until the time of its delivery to the analytical laboratory. During sample transfers, the person with custody of the samples will relinquish them to the next person by signing the COC and documenting the time and date. The analytical laboratory Quality Control/Quality Assurance (QA/QC) staff will document the receipt of the samples and confirm the analyses requested on the COC matches the sample containers and preservative used, if any. The analytical laboratory will assign unique log numbers for identification during the analyses and reporting. The log numbers will be added to the COC form and maintained in a log book maintained by the analytical laboratory.

4.0 ANALYTICAL LABORATORY QA/QC PROCEDURES

The analytical laboratory analyzes spikes, replicates, blanks, spiked blanks, and certified reference materials to verify analytical methods and results. The analytical laboratory QA/QC also includes:

Routine instrument calibration.

Complying with state and federal laboratory accreditation and certification programs.

Participation in U.S. EPA performance evaluation studies,

Standard operating procedures, and

Multiple review of raw data and client reports

5.0 HOLLOW STEM AUGER WELL INSTALLATION

Boreholes for wells are often drilled with a truck-mounted hollow stem auger drill rig. The borehole diameter is at least 4 inches wider than the outside diameter of the well casing. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

6.0 MUD AND AIR ROTARY WELL INSTALLATION

Boreholes for wells can also be drilled with a truck-mounted air rotary or mud rotary drill rig. Air or mud can be used as a drill fluid to fill the borehole and prevent the borehole from caving in and remove drill cuttings. Mud or air can be chosen depending on the subsurface conditions. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole. Soil cuttings and drilling fluids are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

7.0 WELL DEVELOPMENT

After well installation, the wells are developed to remove residual drilling materials from the annulus and to improve well production by fine materials from the filter pack. Possible well development methods include pumping, surging, bailing, jetting, flushing, and air lifting. Development water is temporarily stored onsite pending laboratory analytical results and proper transport and disposal. Development equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and after use. After well development the wells are typically allowed to stabilize for at least 24 hours prior to purging and sampling.

8.0 LIQUID LEVEL MEASUREMENTS

Liquid level measurements are made with a water level meter and/or interface probe and disposable bailers. The probe tip attached to a measuring tape is lowered into the well and into the groundwater when a beeping tone indicates the probe is in the groundwater. The probe and measuring tape (graduated to hundredths of a foot) are slowly raised until the beeping stops and the depth to water measurement is recorded. If the meter makes a steady tone, this indicates the presence of floating liquid hydrocarbons (FLH) and the probe and measuring tape are raised until the steady tone stops and the depth to the FLH is measured. Once depth to water and depth to FLH (if present) has been recorded, the probe and measuring tape are lowered to the bottom of the well where the total depth of the well is measured. The depth to water, depth to FLH, and depth to bottom are measured again to confirm the results.

If FLH is encountered in the well, a disposable bailer is lowered into the well and brought back to the surface to confirm the thickness/presence of FLH. To minimize potential for cross contamination between wells, all measurements are done from cleanest to dirtiest well. Prior to beginning liquid level measurements, in between measurements in all wells, and at the completion of liquid level measurements, the water level probe and measuring tape is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

9.0 WELL PURGING AND SAMPLING

Each well is typically purged of at least three well casing volumes of groundwater prior to collecting a groundwater sample. Purging can continue beyond three well casing volumes if field parameters including pH, temperature, electrical conductivity are not stabilizing during the purging process. If the well is purged dry before the three well casing volumes has been purged, the well is typically allowed to recharge to 80 percent of its initial water level before a groundwater sample is collected.

Purging equipment can include submersible pumps, PVC purging bailers, disposable bailers, air lift pumps, or pneumatic pumps. Prior to beginning well purging, in between each well purging, and at the completion of purging activities, all non-dedicated purging equipment is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

Once the well has been purged, it will be sampled with a disposable bailer, PVC bailer, stainless steel bailer, or through a low flow groundwater pump. The groundwater sample is transferred from the bottom of the bailer to reduce volatilization to the appropriate sample container. The sample containers are specified by the analytical laboratory depending on the analyses requested. Sample containers typically include volatile organic compound (VOA) vials with septa of Teflon like materials. The groundwater sample is collected into the VOAs to minimize air bubbles and once the cap has been placed on the VOA, the VOA is tipped upside down to see if air bubbles are present in the VOA. Typically a duplicate VOA is collected from each well to be analyzed by the analytical laboratory, if warranted, to verify results.

Sample containers are labeled as described in **Section 3.0** and placed immediately in an ice chest and kept refrigerated until its delivery to the analytical laboratory. A trip blank may also be prepared by the analytical laboratory to travel with the ice chest during transport to the laboratory. Field blanks from equipment that has been decontaminated may be collected in between use in different wells to verify the decontamination procedure is effective. To minimize potential for cross contamination between wells, all wells are purged and sampled from cleanest to dirtiest well.

10.0 TEDLAR BAG SOIL VAPOR SAMPLING

Sampling equipment to collect Tedlar bag soil vapor samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, and 3/16-inch diameter polyethylene tubing. The air pump should be equipped with 3/16-inch hose barbs for the polyethylene tubing to attach to. The Tedlar bag must be equipped with a valve for filling and sealing the bag.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with a 3/16-inch hose barb. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the sample collection port and one end is connected to the influent of the air pump, creating an air tight seal. The air pump is turned on and soil vapor from the sample collection port is pumped through the air pump for at least one minute. The air pump is turned off and one end of another piece of polyethylene tubing is connected to the effluent of the air pump and one end is connected to the valve on the Tedlar bag. The valve is opened and the air pump is turned on filling the Tedlar bag with the soil vapor sample until the bag has reached 75% capacity, when the valve on the Tedlar bag is closed and the air pump is turned off.

Tedlar bags are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

11.0 SUMMA CANISTER SOIL VAPOR SAMPLING

Sampling equipment to collect Summa canister soil vapor samples includes a sterilized Summa stainless steel canister under vacuum, ¼-inch diameter polyethylene tubing, and a laboratory calibrated flow meter, if required.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the brass sample collection port and one end is connected to the canister valve or flow meter, creating an air tight seal. Prior to collecting the soil vapor sample, the valve on the Summa canister is opened to verify the Summa canister has the required vacuum which is recorded. Three well volumes of vapor will be purged at a rate less than 200 milliliters per minute (ml/min.), including sand pack pore volume from each soil vapor probe prior to sample collection. The sample valve or flow meter is opened and the soil vapor sample is collected into the Summa canister and the sample valve is closed and the final vacuum reading (typically greater than 5 inches per square inch) on the Summa canister is recorded.

Per the DTSC Advisory Active Soil Gas Investigations, April 2012, high quality soil gas data collection is driven by project-specific data quality objectives (DQOs) and can be enhanced by using a shroud and a gaseous tracer compound. This method of leak detection ensures that soil gas wells are properly constructed and the sample train components do not leak. Most gaseous tracer compounds do not affect target analyte measurements nor does their detection require sample dilution. Also, gaseous leak tracer compounds allow a quantitative determination of a leak either in the sampling train or from ambient air intrusion down the borehole.

The shroud will be designed to contain the entire sampling train and the soil gas well annulus. The sampling train will be constructed of material that does not react with the sample analytes and will not off gas or adsorb volatile compounds. The sampling equipment will be clean and shut-in tested prior to use. The gaseous leak tracer compound (isobutylene 100 ppm) concentration inside the shroud will be monitored frequently to verify initial concentrations. A photoionization detector will be used to monitor tracer gas concentrations.

Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

12.0 SYRINGE SOIL VAPOR SAMPLING

Sampling equipment to collect syringe soil vapor samples includes a sterilized, 100 cubic centimeter, gas tight syringe and silicone septa.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. The syringe is inserted into the silicone septa and the plunger is purged or pumped at least three times. The sample is collected the fourth time the syringe plunger is extracted and the syringe is removed from the sample collection port and the needle on the syringe is capped with a rubber stopper.

Syringes are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

13.0 TEMPORARY SAMPLING POINTS

A temporary borehole is advanced using either a slam bar or a direct push drill rig. In the case of the slam bar, once the borehole has been created, a temporary soil vapor probe is inserted into the borehole and advanced with a slide hammer or other physical force two additional feet. A bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space. In the case of the direct push drill rig, the sampling rod is advanced to the desired depth with a 6-inch retractable vapor screen at the tip. The sample screen on the 6-inch vapor screen is removed and a bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space.

Once the bentonite seal has set, at least one hour, the soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Suma canisters as described in **Section 11.0**. Samples are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

14.0 REPEATABLE SAMPLING POINTS

A borehole is advanced using either a hand auger or a drill rig. A 6-inch slotted probe with caps on both ends is placed in the borehole. A Swagelok fitting is attached to one end cap and 3/16-inch diameter Nylon tubing is attached to the Swagelok fitting. A one foot sand pack is placed around the probe and the remainder of the borehole is sealed with a layer of dry bentonite powder, followed by a layer of bentonite chips, and an additional layer of dry bentonite powder. A well box is placed on the surface of the repeatable sampling point and the excess Nylon tubing is placed inside the well box.

Soil vapor survey samples will be collected at least one week after probe installation. In addition, soil vapor survey samples will only be collected after five consecutive precipitation free days and after any onsite irrigation has been suspended.

The soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Summa canisters as described in **Section 11.0**. Tedlar bags or Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.



2905 Rahroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

01 January 2015

Mike Sgourakis Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 12/16/14 15:30 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,

Wayne Scott Lab Manager

Argon Analytical Services, Inc. CHAIN OF CUSTODY

	Project Information:				Report To:					Samples Submitted To:								
Project No:	GHA.19009				Consult				ompliance	Group,	LLC		Laboratory: Argon Labs					
Project Title:	Shore Acres Ga				Address	3 :		tage Drive						Addres	s:		2905 Railroad Av	
Location:	403 East 12th S	Street						, CA 9538	32								Ceres, CA 9530	7
	Oakland, CA				Contact	:	Mike So							Contact				
Sampler's Name:					Phone:		916,600						ì	Phone:			(209) 581-9280	
(print)					Fax:		209.664							Fax: (209) 581-9282				
Sampler's Signatur	re:								Bill To:					Date Res	suits Req	uired:		
					Client: Environmental Compliance Group, LLC Address: 270 Vintage Drive Turlock, CA					oort Requ	oort Required:							
TURN AROUND TIME									ANAL	YSIS								
RUSH	24 Hour	48 Hour	Standard	Special	B	≪										T	~	
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	27.00	di anticata di ant	***************************************		TPHg by EPA Method 8015M	BTEX, 5 oxygenates, 1,2-DCA, EDB by EPA Method 8260R	ranne den de distribuir de la constante de la									EDF Reports		
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Sample ID.	Dafe	Time	# Containers	Matrix			<u> </u>	<u> </u>								<u> </u>	Preservative	······································
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IVIVV-2		حقح		S)jeranos		ì										7		
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Argon Laboratories Sample Receipt Checklist

Client Name:	Environmen	tal Co	omplia	ance G	roup				Date	& Time R	eceived:	12	/16/14	1	5:30
Project Name:	Shore Acres	Gas	S						Clie	nt Project	Number:		GH/	4.19009)
Received By:	DP				Mati	rix:	Water	1	Soil			Slud	ge		
Sample Carrier:	Client [<u> </u>	Labor	ratory		Fed Ex		UPS		Other					
Argon Labs Project	Number:	<u>F</u>	² 4120	036	1416	1160	D35	j							
Shipper Container in	good condition			i				es receive	d in prop	per contain	ers?	Yes	\subseteq	No	
	N/A	Υ	es	V	No		Sample	es receive	d intact'	?		Yes	4	No	
Samples received un	der refrigeratio	n? Y	es	[7]	No		Sufficie	ent sample	e volume	e for reques	ted tests?	Yes	Image: Control of the	No	
Chain of custody pres	sent?	Y	es	团	No		Sample	es receive	d within	holding tim	e?	Yes	Image: Control of the	No	
Chain of Custody sign	ned by all parti	es? Y	/es	Į.	No		Do san	nples cont	ain prop	oer preserva N/A	itive?	Yes	\square	No	
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2905 Railroad Avenue, Ceres, CA 95307 Phone: (200) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382

Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.:

P412036

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-I	P412036-01	Water	12/15/14 11:00	12/16/14 15:30
MW-2	P412036-02	Water	12/15/14 10:00	12/16/14 15:30
MW-3	P412036-03	Water	12/15/14 11:35	12/16/14 15:30
MW-4	P412036-04	Water	12/15/14 10:35	12/16/14 15:30
MW-5	P412036-05	Water	12/15/14 12:35	12/16/14 15:30
MW-6	P412036-06	Water	12/15/14 12:00	12/16/14 15:30
EW-1	P412036-07	Water	12/15/14 12:50	12/16/14 15:30
EW-2	P412036-08	Water	12/15/14 13:00	12/16/14 15:30
EW-3	P412036-09	Water	12/15/14 12:55	12/16/14 15:30
EW-4	P412036-10	Water	12/15/14 13:05	12/16/14 15:30

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

Wayne E Aco



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Pax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA, 19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: P412036

Total Petroleum Hydrocarbons @ Gasoline

				······································			
Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Note
MW-1 (P412036-01) Water Sa	impled: 15-Dec-14 11:00	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbons Gasoline	<u>@</u> 11000	50	ug/L	1	20-Dec-14	8015M	
Surr. Rec.:		114 %			R	H	
MW-2 (P412036-02) Water Sa	impled: 15-Dec-14 10:00	Received:	16-Dec-	34 15:30			
Total Petroleum Hydrocarbons Gasoline		50	ug/L	1	20-Dec-14	8015M	
Surr. Rec.:	•				9	ii ii	
MW-3 (P412036-03) Water Sa	impled: 15-Dec-14 11:35	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbons Gasoline	@ 1300	50	ug/L	. A manuscript of the state of	21-Dec-14	8015M	
Surr. Rec.:		109 %	-		u	q	
MW-4 (P412036-04) Water Sa	mpled: 15-Dec-14 10:35	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbons (Gasoline	720	50		1	21-Dec-14	8015M	
Surr. Rec.:		112%			y	ıt	
MW-5 (P412036-05) Water Sa	mpled: 15-Dec-14 12:35	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbons (Gasoline	@ 13000	50		1	20-Dec-14	8015M	
Surr. Rec.:		123 %			"	н	
MW-6 (P412036-06) Water Sa	mpled: 15-Dec-14 12:00	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbons (Gasoline	@ 4700	50			20-Dec-14	8015M	***************************************
Surr. Rec.:		122 %			the second secon	"	A A A A A A A A A A A A A A A A A A A
EW-1 (P412036-07) Water San	npled: 15-Dec-14 12:50	Received: 1	l 6-Dec-1	4 15:30			
Total Petroleum Hydrocarbons (Gasoline	a 4000	50		l	21-Dec-14	8015M	
Surr. Rec.:	** 1949 tille til setterbelen setterbessessessen pag grengspr	98 %			*	H	nan lakumin laki tinin II duntun mening

Wayne & Stev Approved By



2905 Raifroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382

Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.: P412036

Total Petroleum Hydrocarbons @ Gasoline

Analyte	Pont	Reporting	I ludio	Political	A t	4 4 . 25 4	
<u> </u>	Result	Lámit	Units	Dilution	Anatyzed	Method	Notes
EW-2 (P412036-08) Water	Sampled: 15-Dec-14 13:00	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarbo Gasoline	ns @ 11000	50	ug/L	programme of the control of the cont	20-Dec-14	8015M	
Surr. Rec.:		115 %		4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W	n	the common of the control of the con
EW-3 (P412036-09) Water	Sampled: 15-Dec-14 12:55	Received:	16-Dec-	14 15:30			
Total Petroleum Hydrocarboi Gasoline	ns @ 26000	50	ug/L	*	20-Dec-14	8015M	***************************************
Surr. Rec.:		108 %		777 M (Marie 1944 (See 1950)	Я	to tablegate or an organization of the state
EW-4 (P412036-10) Water	Sampled: 15-Dec-14 13:05	Received:	16-Dec-1	4 15:30			
Total Petroleum Hydrocarbor Gasoline	ns @ 7700	50	ug/L	j.	20-Dec-14	8015M	
Surr. Rec.:		108 %		CA THERM CAPUS PROPERTY AND A STREET STREET, STREET STREET, STREET, STREET, STREET, STREET, STREET, STREET, ST	l l	"	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

Wayne E Sero



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.:

P412036

TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (P412036-01) Water	Sampled: 15-Dec-14 11:00	Received:	16-Dec-	14 15:30			
Benzene	1100	0.5	ug/L	1	26-Dec-14	EPA 8260B	
Toluene	140	0.5	It	34	ff	μ	
Xylenes, total	420	1.0	п	ŧi	ìt	ù	
Ethyl Benzene	310	0.5	15	ŧ	វា)f	
t-Butanol	98	5.0	es.	6	н	Ĵŧ	
Methyl tert-Butyl Ether	310	0.5	12	11	ff	в	
Di-Isopropyl Ether	ND	0.5	н	e	ų	ŧ	
Ethyl tert-Buryl Ether	ИD	0.5	н	ø	ŧ	35	
tert-Amyl Methyl Ether	ND	0.5	H	н	H	#	
1,2-Dichloroethane	ND	0.5	t#	b)	9	11	
1,2-Dibromoethane (EDB)	ND	0.5	**	đ	ų	Ħ	
Surr. Rec.:		97 %			#	U	
MW-2 (P412036-02) Water	Sampled: 15-Dec-14 10:00	Received:	16-Dec-	14 15:30	_		
Benzene	14	0.5	սց/Լ	1	26-Dec-14	EPA 8260B	
Toluene	3.3	0.5	н	Ð	н	ti	
Xylenes, total	13	1.0	. 0	ų ·	·	a	
Ethyl Benzene	5.2	0.5	ų	Ø	ri	31	
t-Butanol	23	5.0	11	я	it	ŧ	
Methyl tert-Butyl Ether	7.3	0.5	#	ъ	U	0	
Di-Isopropyl Ether	ND	0.5	19	'n	U	u	
Ethyl tert-Butyl Ether	ND	0.5	ù	n	tt	(1	
tert-Amyl Methyl Ether	, ND	0.5	#	H	ti	a	
1,2-Dichloroethane	ND	0.5	U	0	ħ	u	
1,2-Dibromoethane (EDB)	ND	0.5	8	0	d	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100000000000000000000000000000000
Surr. Rec.:	The state of the s	98 %	:		u u	n	

Wayne & Stott Approved By



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382

Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.:

P412036

TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed Method Notes
MW-3 (P412036-03) Water	Sampled: 15-Dec-14 11:35	Received:	16-Dec-	14 15:30	
Benzene	260	0.5	ug/L	l	26-Dec-14 EPA 8260B
Toluene	69	0.5	71	76	Ø (I
Xylenes, total	120	1.0	st	¥	88 11
Ethyl Benzene	39	0.5	**	23	1)
t-Butanol	140	5,0	ŧ	34	a a
Methyl tert-Butyl Ether	110	0.5	ŧŧ	st.	ft gi
Di-Isopropyl Ether	ND	0.5	Ħ	ŧ	lj št
Ethyl tert-Butyl Ether	ND	0.5	ŧ	9	и и
tert-Amyl Methyl Ether	ND	0.5	*1	*	d d
1,2-Dichloroethane	ND	0.5	n	n	1) ()
1,2-Dibromoethane (EDB)	ND	0.5	п	4	4j ij
Surr. Rec.:	од	96 %		AND AND AND THE PROPERTY OF THE PROPERTY OF	y y
MW-4 (P412036-04) Water	Sampled: 15-Dec-14 10:35	Received:	16-Dec-	14 15:30	
Benzene	58	0.5	ug/L	1	26-Dec-14 EPA 8260B
Toluene	32	0.5	31	ıı	ge H
Xylenes, total	33	1.0	8	0	a u
Ethyl Benzene	29	0.5	11	it	şl yi
t-Butanol	13	5.0	u	18	н
Methyl tert-Butyl Ether	ND	0.5	H	30	41 8
Di-Isopropyl Ether	ND	0.5	h	25	¥ ¥
Ethyl tert-Butyl Ether	ND	0.5	tt	ŧ) i
tert-Amyl Methyl Ether	ND	0.5	B	н	y; yı
1,2-Dichioroethane	ND	0.5	Ħ	ø	Yr ii
1,2-Dibromoethane (EDB)	ND	0.5	ŧ	tt	ft yi
Surr. Rec.:		115 %			H H

Mayne E Stor



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

Project Number: GHA.19009

270 Vintage Drive

Turlock, CA 95382

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.; P412036

TPH-gas & Volatile Organic Compounds by GC/MS

Anulyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-5 (P412036-05) Water	Sampled: 15-Dec-14 12:35	Received:	16-Dec-	14 15:30			
Benzene	840	0.5	ug/L	l	26-Dec-14	EPA 8260B	
Toluene	530	0.5	19	8	9	Ħ	
Xylenes, total	1700	1.0	0	31	19	Ð	
Ethyl Benzene	450	0.5	16	H	н	11	
t-Butanol	340	5.0)t	0	19	ù	
Methyl tert-Butyl Ether	370	0.5	If	ч	ıı	Ħ	
Di-Isopropyl Ether	ND	0.5	a	и	31	b	
Ethyl tert-Butyl Ether	ND	0.5	31	В	B	ß	
tert-Amyl Methyl Ether	ND	0.5	ø	9	0	8	
1,2-Dichloroethane	ND	0.5	0	Hr.	h	19	
1,2-Dibromoethane (EDB)	ND	0.5	ч	#	н	#3	
Surr. Rec.:	PRINTER AND THE TAXABLE PROPERTY OF THE PROPER	91%		CITATIO I INTERNAL MATERIAL CONTRACTOR CONTR	n	A	
MW-6 (P412036-06) Water	Sampled: 15-Dec-14 12:00	Received:	16-Dec-	14 15:30			
Benzene	520	0.5	ug/L,	£	26-Dec-14	EPA 8260B	
Toluene	25	0.5	11	tf	**	e e	
Xylenes, total	43	1.0	ti	91:	R '	В	
Ethyl Benzene	110	0.5	ti	Ħ	Ħ	tş	
t-Butanol	88	5.0	71	0	¥	91	
Methyl tert-Butyl Ether	33	0.5	17	n.	#	19	
Di-Isopropyl Ether	ND	0.5	н	п	11	Ħ	
Sthyl tert-Butyl Ether	ND	0.5	К	6	н	u	
ert-Amyl Methyl Ether	ND	0.5	B	ŧ	ŧ)r	
1,2-Dichloroethane	ND	0.5	11	Ħ	μ	H	
,2-Dibromoethane (EDB)	ND	0.5	\$1	Ħ	11	58	
Surr. Rec.:		97 %			V	*	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

Wayne E Swort



2905 Raihoad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382

Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.:

P412036

TPH-gas & Volatile Organic Compounds by GC/MS

		Reporting		PS \$1 4	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Annyzed	wichigo	INCHES
EW-1 (P412036-07) Water	Sampled: 15-Dec-14 12:50	Received:	16-Dec-1	4 15:30			-
Benzene	560	0.5	ug/L	1	26-Dec-14	EPA 8260B	
Toluene	29	0.5	n	Ú	it	if	
Xylenes, total	150	1.0	11	11	Į¥	"	
Ethyl Benzene	150	0.5	0	*	11	,,	
t-Butanel	110	5.0	11	Ħ	0	0	
Methyl tert-Butyl Ether	170	0.5	11	л	ч	и	
Di-Isopropyi Ether	ND	0.5	38	31	:11	15	
Ethyl tert-Butyl Ether	ИD	0.5	Ħ	t ₁	a	9	
tert-Amyl Methyl Ether	ND	0.5	Ħ	Ð	U)s	
1,2-Dichloroethane	ND	0.5	а	₹	et	a	
1,2-Dibromoethane (EDB)	ND	0.5	н .	10	js	н	
Surr. Rec.:	AND THE PROPERTY OF THE PARTY O	97 %	111111111111111111111111111111111111111		V	Ħ	
EW-2 (P412036-08) Water	Sampled: 15-Dec-14 13:00	Received:	16-Dec-l	4 15:30			
Benzene	510	0.5	ug/L	1	26-Dec-14	EPA 8260B	
Toluene	500	0.5	ы	49	4	e	
Xylenes, total	1100	1.0	n	ŧ	14	¥	
Ethyl Benzene	160	0.5	n	11	1*	*	
t-Butanol	66	5.0	**	u	16	11	
Methyl tert-Butyl Ether	94	0.5	34	0	ž5	**	
Di-Isopropyl Ether	ND	0.5	8	1 9	\$9	#	
Ethyl tert-Butyl Ether	ND	0.5	1 €	В	ţt.	ŧi	
tert-Amyl Methyl Ether	ND	0.5	##	Įŧ	. 0	8	
1,2-Dichloroethane	ND	0.5	н	#	u	Ħ	
1,2-Dibromoethane (EDB)	ND	0.5	и	Iŧ	il	ti	
Surr. Rec.:	HIRING TEATE : YAARAARAY OO OO WAXAA OO WAXAA OO O	95 %			#	Ħ	

Wayne & South



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

270 Vintage Drive

Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.:

P412036

TPH-gas & Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	An	alyzed	Method	Notes
EW-3 (P412036-09) Water	Sampled: 15-Dec-14 12:55	Received:	16-Dec-1	4 15:30			***************************************	
Benzene	1200	0.5	ug/L	I	26-	Dec-14	EPA 8260B	
Toluene	1100	0.5	0	(I		js.	lę .	
Xylenes, total	2000	1.0	11	11		(1	(#	
Ethyl Benzene	350	0.5	11	51		ч	31	
t-Butanol	700	5.0	\$1	н		Ħ	0	
Methyl tert-Butyl Ether	160	0.5	н	11:		tř	si .	
Di-Isopropyl Ether	ND	0.5	Ħ	It		4	4	
Ethyl tert-Butyl Ether	ND	0.5	Ħ	(1		98	ņ	
tort-Amyl Methyl Ether	ND	0.5)tr	0		p	n	
1,2-Dichloroethane	ND	0.5	0	0		H	30	
1,2-Dibromoethane (EDB)	ND	0.5	13	4		11	19	
Surr. Rec.:	HINTELLE HELLER (ALL COMMON AND THE AND	97 %				r)	η	
EW-4 (P412036-10) Water	Sampled: 15-Dec-14 13:05	Received:	16-Dec-	14 15:30				
Benzene	570	0.5	ug/L	I	26-	Dec-14	EPA 8260B	
Toluene	170	0.5	ņ	¥		10	f1	
Xylenes, total	1000	1.0	ŧi	49		H	ži –	
Ethyl Benzene	320	0.5	11	u ~		It	3f	
t-Butanol	110	5.0	11	8		н	31	
Methyl tert-Butyl Ether	100	0.5	0	is .		ŧ	19	
Di-Isopropyl Ether	ND	0.5	м	ų		a .	ŧı	
Ethyl tert-Butyl Ether	ND	0.5	*1	și		u	ii.	
tert-Amyl Methyl Ether	ND	0.5	#1	n		ķi	(I	
1,2-Dichloroethane	ND	0.5	14	ë		B	n	
1,2-Dibromoethane (EDB)	ND	0.5	e .	ŧ	A MARKA STATE OF THE PARTY OF T		11	~
Surr. Rec.:	THE PERSON OF TH	100 %		A LANGUAGO A AND AND THE RESIDENCE OF THE PERSON OF THE PE		21	Ħ	

Wayne E Scott Approved By



2905 Railroad Avenue, Cercs, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

Project Number: GHA.19009

Work Order No.:

270 Vintage Drive 95382

Turlock, CA

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

P412036

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch P401462 - Default Prep GC-Sen	ni						*****					
Blank (P401462-BLK1)				Prepared & Analyzed: 12/20/14								
Surrogate: a,a,a-Trifluorotoluene	49.5	Harman Harman (+50000 4000 1000 1000 1000 1000 1000 1000	ug/L	50		99	70-130		- In Indian Indian			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	.4									
Blank (P401462-BLK2)	Prepared & Analyzed: 12/21/14									-3A-1-7-4-8A-0-4-8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
Surrogate: a.a.a-Trifluorotoluene	0.00	Andrew by latest comments of the latest trade	ug/L	50		. pre-monance word for the total of	70-130	,				
Total Petroleum Hydrocarbons @ Gasoline	ND	50	it .									
LCS (P401462-BSI)				Prepared	& Analyza	ed: 12/20/	14	a. 14141 tag (, 1 11 t. 1 tau 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		o y o y y y y y y y y y y y y y y y y y		
Surrogale: a,a,a-Trifluorotoluene	62.5	//grya-////////////////////////////////////	ug/L	50		125	70-130					
Total Petroleum Hydrocarbons @ Gasoline	896		11	1000		90	80-120					
LCS (P401462-BS2)				Prepared	& Analyz	od: 12/21/	14		**************************************			
Surrogate: a,a,a-Trifluorotoluene	58.5	MATA: M. PWI O CONCOLONIO DE HINE HINE	ug/L	50		117	70-130			MANAGEMENT OF THE PROPERTY OF		
Total Petroleum Hydrocarbons @ Gasoline	910		ti	1000		91	80-120					
LCS Dup (P401462-BSD1)				Prepared	& Analyze	ed: 12/20/	14		~~~yangaaqanamini.iimiii	11 A 11 MIN TO 1		
Surrogate: a,a,a-Trifluorotoluene	61.0		ug/L	50	engantage ye majeri in in minin také bahaké	122	70-130	, (v	-# tolodio anno anton-			
Total Petroleum Hydrocarbons @ Gasoline	912		ø	1000		91	80-120	2	20			
LCS Dup (P401462-BSD2)				Prepared:	12/21/14	Analyze	1: 01/01/15	Š	wywywa ny 10 mm na manana man			
Surrogate: a,a,a-Trifluorotoluene	58.5		ug/L	50	Managed to be seen to a second to a second	117	70-130			_ a., a. a. mana, o well beautiful and but on		
Total Petroleum Hydrocarbons @ Gasoline	910		н	1000		91	80-120	0	20			
Matrix Spike (P401462-MS1)	So	urce: P41203	6-02	Prepared	& Analyz	ed: 12/20/	14					
Surrogate: a,a,a-Trifluorotoluene	64,5	O NEWS CO. STATES AND	ug/L	50	The state of the s	129	70-130	4	reggere emiliaca trasprovena ricerios in se	al cal allian adda taplacad had adda do cal tao i ngos		
Total Petroleum Hydrocarbons @ Gasoline	1040		ų	1000	85.0	95	70-130					
Matrix Spike Dup (P401462-MSD1)	So	urce: P41203	6-02	Prepared	& Analyz	ed: 12/20/	14					
Surrogate: a,a,a-Trifluorotoluene	68.5	THE STATE OF THE PARTY OF THE STATE OF THE S	ug/L	50	2.24.54.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	137	70-130		a tale del del del como en estado e e te te	, by a total in Laboured to the material but here		
Total Petroleum Hydrocarbons @ Gasoline	1040		11	1000	85.0	95	70-130	0	20			

Wayne E Stol



2905 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

Environmental Compliance Group, LLC

95382

Project Number: GHA.19009

Project Name: Shore Acres Gas

Project Manager: Mike Sgourakis

Work Order No.:

P412036

Notes and Definitions

DET

Turlock, CA

270 Vintage Drive

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

Wayne & Stot



Date: 11/03/2014

Laboratory Results

Drew Van Allen Environmental Compliance Group 270 Vintage Dr Turlock, CA 95382

Subject: 2 Vapor Samples

Project Name: Shore Acres Gas Project Number: GHA 19009

Dear Mr. Van Allen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy G. Turpen



Project Name: Shore Acres Gas

Project Number: GHA.19009

Sample: Effluent

Matrix: Air

Lab Number: 89532-01

Report Number: 89532 Date: 11/03/2014

Sample Date :10/28/2014

Sample Date :10/28/2014		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/14 12:01
Toluene	< 0.050	0.050	ppmv	EPA 8260B	10/31/14 12:01
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/14 12:01
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	10/31/14 12:01
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	10/31/14 12:01
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	10/31/14 12:01
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	10/31/14 12:01
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	10/31/14 12:01

Sample: Influent

Matrix: Air

Lab Number: 89532-02

Sample Date :10/28/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	2.4	0.050	ppmv	EPA 8260B	10/31/14 11:58
Toluene	2.9	0.050	ppmv	EPA 8260B	10/31/14 11:58
Ethylbenzene	1.1	0.050	ppmv	EPA 8260B	10/31/14 11:58
Total Xylenes	9.6	0.050	ppmv	EPA 8260B	10/31/14 11:58
Methyl-t-butyl ether (MTBE)	0.44	0.10	ppmv	EPA 8260B	10/31/14 11:58
TPH as Gasoline	130	5.0	ppmv	EPA 8260B	10/31/14 11:58
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	10/31/14 11:58
Toluene - d8 (Surr)	99.1	•	% Recovery	EPA 8260B	10/31/14 11:58

Date: 11/03/2014

QC Report : Method Blank Data

Project Name: Shore Acres Gas

Project Number: GHA.19009

<u>Parameter</u>	Measured Value	Method Reporting Limit	g Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Toluene	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	10/31/2014
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	10/31/2014
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	10/31/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	10/31/2014
Benzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Toluene	< 0.050	0,050	ppmv	EPA 8260B	10/31/2014
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	10/31/2014
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmy	EPA 8260B	10/31/2014
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	10/31/2014
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	10/31/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	10/31/2014

		Method	i		
	Measured	Reporti	ing	Analysis	Date
Parameter	<u>Value</u>	Limit	Units	Method	Analyzed



Rev: 061708

2795 2nd Street, Suite 300 Davis, CA 95618

Lab: 530,297,4800 Fax: 530,297,4802 SRG#/Lab No.

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of 1

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Drew Van Allen			C-	12-	^	\a.==		~~ ^	l						-	Chain-of-Custody Record and Analysis Request Analysis Request TAT																					
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Project Address:	Samp	ling		_	Cont	aine	r		Pres	егуа	tive		Ma	trix		MTBE @ 0.5 ppb (EPA 8260B)		<u>@</u>	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	إير	TPHg, BTEX, and MTBE by EPA 8260B					ı
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	_		40 ml VOA						Ιĺ		1				1	0	Y.	<u>ا</u> ي	ates	ag	<u>چ</u> ا	r	8	Ö	<u>ë</u>	Mot	≗	ĭ ĭ	Ü) pe	ea) (E)		İ	l ma		
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Chain-of-Custody	<i>r</i> :		Yes	;	No	Document	ed on	coc	Labels		Discre	pancio	es:
Is COC present?			$\overline{}$	ز		Sample ID		X	<i>y</i>			•	
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Is COC dated by re	elinquisher	?	X)		Sample Da	ite	×	بحر	See (omne	ufs	
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Are there analyses	or hold for	all samples?	? X			Does COC	match	project h	nistory?	□ N/A	×	Yes	□No
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Are sample custod	ly seals inta	act?	1×			Sample	Jakes	ave	102714	· If co	oc is a	orrec	t the
Are sample contain	ners intact?)		X									had if labe
Is preservation do	cumented?		\sim			are correct. Sk will log in per the COC pending							
In-house Analysis	s:		N/A	Yes	No	confirm			· · · · · · · · · · · · · · · · · · ·			1	
Are preservatives	acceptable	?	φ										

Receipt Details:

Are samples within holding time?
Are sample container types correct?
Is there adequate sample volume?

Matrix	Container Type	# of Containers
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	CS Required: 🕽	1
Proceed With Analysis: YES NO Client Communication:	Init/Date:	



Date: 12/18/2014

Laboratory Results

Drew Van Allen Environmental Compliance Group 270 Vintage Dr Turlock, CA 95382

Subject: 2 Vapor Samples

Project Name: Shore Acres Gas Project Number: GHA.19009

Dear Mr. Van Alien,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the TNI 2009 standards.

Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Pace Analytical Services, Inc.

Pace Analytical Services, Inc. is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Date: 12/18/2014

Project Name : Shore Acres Gas

Project Number: GHA.19009

Sample: Effluent Matrix: Air Lab Number: 89870-01

Sample Date :12/09/2014

	Measured	Method Reporting		Analvsis	Date/Time
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/14 14:35
Toluene	< 0.050	0.050	ppmv	EPA 8260B	12/11/14 14:35
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/14 14:35
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	12/11/14 14:35
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	12/11/14 14:35
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	12/11/14 14:35
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/11/14 14:35
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	12/11/14 14:35

Sample: Influent Matrix: Air Lab Number: 89870-02

Sample Date :12/09/2014

Cample Bate 112700/2014	Measured	Method Reporting		Analysis	Date/Time
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	2.6	0.15	vmqq	EPA 8260B	12/11/14 14:28
Toluene	4.3	0.10	ppmv	EPA 8260B	12/11/14 14:28
Ethylbenzene	1.1	0.10	ppmv	EPA 8260B	12/11/14 14:28
Total Xylenes	32	0.10	ppmv	EPA 8260B	12/11/14 14:28
Methyl-t-butyl ether (MTBE)	0.23	0.15	ppmv	EPA 8260B	12/11/14 14:28
TPH as Gasoline	610	10	ppmv	EPA 8260B	12/11/14 14:28
1,2-Dichloroethane-d4 (Surr)	97.7		% Recovery	EPA 8260B	12/11/14 14:28
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/11/14 14:28

Date: 12/18/2014

QC Report : Method Blank Data

Project Name: Shore Acres Gas

Project Number: GHA.19009

		Method			5 /
Parameter	Measured Value	Reportin Limit	g Units	Analysis Method	Date Analyzed
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Benzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Toluene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	12/11/2014
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	12/11/2014
1,2-Dichloroethane-d4 (Surr)	98.3		%	EPA 8260B	12/11/2014
Toluene - d8 (Surr)	102		%	EPA 8260B	12/11/2014
_				551	
Benzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Toluene	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	12/11/2014
Methyl-t-butyl ether (MTBE)	< 0.10	0.10	ppmv	EPA 8260B	12/11/2014
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	12/11/2014
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	12/11/2014
Toluene - d8 (Surr)	108		%	EPA 8260B	12/11/2014

		Method	l		
	Measured	Reporti	ng	Analysis	Date
<u>Parameter</u>	Value	Limit	Units	Method	Analyzed

KIFF	2
Analytical LLC	1

2795 2nd Street, Suite 300 Davis, CA 95618

Lab: 530.297.4800 Fay: 530 297 4802 SRG#/Lab No.

Project Contact (Hardcopy or PDF 1 Drew Van Allen	Го):			ifornia EDF Report?				,				•	(Cha	in-	of-C	Cus	tod	y F	ec.	ord	an	ıd A	۱na	lysi	s R	equ	est								
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TAT: Standa	rd Rush	Split	1	None	Method of Receipt		ourier] Over-the-coun	ter Shipped
Temp °C	N/A Therm ID	Tim	ne		Coolant present	☐ Yes	s No	☐ Water	☐ Temp Excursion
For Shipments Only	: Cooler Receipt Initial	s/Date/Ti	me: 2		121114 1020	Cust	ody Seals	ØN/A □	Intact Broken
Chain-of-Custody:		Yes		No	Documented on	coc	Labels	Dia	
Is COC present?	, <u>, , , , , , , , , , , , , , , , , , </u>	163		IAO	Sample ID	/	Labels /	Dis	screpancies:
	alinguicher?		-		Project ID	1	1	·	:
	Is COC signed by relinquisher?				Sample Date	1	 /		
Is COC dated by relinquisher? Is the sampler's name on the COC?					Sample Time	1	1		
Are there analyses or hold for all samples?					Does COC match	project b	niotom/2	□ N/A	
Are there analyses or floid for all samples?					1 Does COC match	projecti	iistory?	□ N/A	Yes No
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Are sample custody	seals intact?								
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Is preservation docu	umented?								
In-house Analysis	•	N/A	Yes	No					
Are preservatives a	cceptable?								
Are samples within	holding time?								
Are sample contain	er types correct?								
Is there adequate s	ample volume?		<u> </u>						
Receipt Details:									
Matrix	Container Type	# of C	ontain	ers					
AR	Jadlar	8	2						
					Requires cl	ent: C	larificatio	n 🔲 Approv	val ☐ Notification ☐
			-		Proceed With Ana				
					Client Communica		_		
<u>, </u>									
<u></u>					<u> </u>			 -	

GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Shore Acres Gas
PROJECT MANAGER: MSS

PROJECT NUMBER: TASK NUMBER:

GHA.19009

SITE ADDRESS:

403 East 12th Street, Oakland, Ca

WELL ID	TIME	DEPTH TO BOTTOM	DEPTH TO WATER	DEPTH TO PRODUCT	PRODUCT THICKNESS	PRODUCT THICKNESS X 0.8	COMMENTS
MVV-1	6932	19.39	7:40				
MW-2	6978	19.91	8.65				
MVV-3	6934	17.01	0.10	<i>i</i> -	·		· · · · · · · · · · · · · · · · · · ·
MVV-4	0932	18,80	રે.પડ				
MVV-5	6938						shen
MVV-6	0936	W. W	7,62				
EW-1	0976	19.62	3,10	age to the			
EW-2	0924	19.62	8.23				
EW-3	0940	19.84	e, 20				
EW-4	0942	101.89	8.50				·
						`.	\$
				egen (See like are the second		
							1
							A Comment of the Comm
			ų				
				1			
	77		51	*	1,	1354	

FIELD TECHNICIAN:	12/15/14	
DATE:	dis	ends.

PROJECT N		Shore Acres MSS 403 East 12t	Gas h Street, Oakla	and, Ca	MBER: R:	GHA.19009	
	WELL ID:	MW	<u>- \</u>		TYPE O	F WELL:	Monitoring
WATER CO	Dej	Total Depth: oth to Water: umn Length:	7-60		WELL DIAME* 2-inch: _ 4-inch: _ 6-inch: _	TER:	
PURGE VOI	LUME CALCU Water Colum		ultiplier x No. \	√olumes = l	Purge Volume		
Wat	(2.23 ter Column Le	x	O.17 Multiplier		No. Volumes		Co. ZS Purge Volume
MULTIPLIE		Schedule 40 2-inch: 4-inch: 6-inch:	0.17 0.65	Linear Foot	Based on Casi	ng Diame	ter:
PURGE ME	THOD:			CAMDIE	AETHOD		
	Disp	osable Bailer PVC Bailer ersible Pump Other		SAIVIPLE I	METHOD: Disposa	ble Bailer Pump: Other:	
TIME	Disposition of the Columbia of	PVC Bailer ersible Pump		COND.		Pump:	
	VOLUME PURGED (gal)	PVC Bailer ersible Pump Other	TEMP. (°C)	COND.	Disposa	Pump: Other:	
TIME	VOLUME PURGED (gal) Z.ZS	PVC Bailer ersible Pump Other pH	TEMP. (°C) 70.9	COND. (uS/cm)	Disposa	Pump: Other:	
TIME	VOLUME PURGED (gal)	PVC Bailer ersible Pump Other	TEMP. (°C)	COND. (uS/cm)	Disposa	Pump: Other:	
TIME LOSO LOSA LOSA	VOLUME PURGED (gal) Z.ZS	PVC Bailer ersible Pump Other pH	TEMP. (°C) 70.9	COND. (uS/cm)	Disposa	Pump: Other:	COMMENTS
TIME LOSO LOSA LOSA	VOLUME PURGED (gal) Z.ZS	PVC Bailer ersible Pump Other pH	TEMP. (°C) 70.9	COND. (uS/cm)	Disposa	Pump: Other:	COMMENTS

PROJECT I PROJECT I SITE ADDR	MANAGER:	Shore Acres MSS 403 East 12	Gas h Street, Oakl	- and, Ca	PROJECT NU TASK NUMBI		GHA.19009
	WELL ID:	<u> </u>	J-Z	-	TYPE (OF WELL:	Monitoring
WATER CO	De	Total Depth: pth to Water: lumn Length:	8.65	- - -	WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _	TER:	- - -
PURGE VO	LUME CALCU Water Colum		ultiplier x No.	Volumes =	Purge Volume		
Wa	ter Column Le		O.(7 Multiplier	_ x	No. Volumes	=	Purge Volume
MULTIPLIE		Schedule 40 2-inch: 4-inch: 6-inch:	0.17 0.65	Linear Foot	Based on Cas	ng Diame	ter:
PURGE ME	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I		able Bailer Pump: Other:	
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
0950	7.	691	29. F	913			
0954	7		Z0-5	000			
<u>0958</u>	6	6.87 6.85	70,5	0891			
1000							
				+			1

PROJECT N PROJECT N SITE ADDR	/IANAGER:	Shore Acres MSS 403 East 12t	Gas h Street, Oakl	- - and, Ca	PROJECT NU TASK NUMBE		GHA.19009		
	WELL ID:	Ma	1-3	-	TYPE C	F WELL:	Monitoring		
WATER CO	De	Total Depth: pth to Water: lumn Length:		- - -	WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _				
PURGE VOLUME CALCULATION: Water Column Length x Multiplier x No. Volumes = Purge Volume									
Wat	٩.귀 ter Column Le	x	Multiplier	_ x	3 No. Volumes	=	Purge Volume		
MULTIPLIE		Schedule 40 I 2-inch: 4-inch: 6-inch:	PVC; Gallons/ 0.17 0.65 1.5	Linear Foot	Based on Casi	ng Diame	ter:		
PURGE ME	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I	METHOD: Disposa	able Bailer Pump: Other:			
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS		
1125 1121 1133 1135	7 4 5	6.99 6.99 6.91	70.8 20.6 79.3	798 791 771			Sampe		
FIELD T	ECHNICIAN: DATE:		15/14						

PROJECT N PROJECT N SITE ADDR	/IANAGER:	Shore Acres MSS 403 East 12t	Gas h Street, Oakl	and, Ca	PROJECT NU TASK NUMBE		GHA.19009		
	WELL ID:	Mw	<u>-</u> 4	-	TYPE C	F WELL:	Monitoring		
WATER CO	De	Total Depth: pth to Water: lumn Length:	8.45	- - -	WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _		- - -		
PURGE VOLUME CALCULATION: Water Column Length x Multiplier x No. Volumes = Purge Volume									
Wa	(©. 35 ter Column Le					=	S.5 Purge Volume		
MULTIPLIE		Schedule 40 2-inch: 4-inch: 6-inch:	0.17 0.65	Linear Foot	Based on Casi	ng Diame	ter:		
PURGE ME	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I	METHOD: Disposa	able Bailei Pumpi Otheri			
TIME	VOLUME PURGED	рН	TEMP.	COND. (uS/cm)	DO (mg/l)	ORP	COMMENTS		
	(gal)]	(0,	(40/0111)		(mV)			
1025	(gal) 2.25	6.98	ZJ3	631		(mV)			
1025	2.25	6,98	Z1.3 Z1.6	631		(mV)			
1035 1035 1035		6,98	21.3			(mV)	sample		
1035 1037 1035	2.25	6.91	Z1.3 Z1.6	631		(mV)	sample		
1035 1037 1035	2.25	6.91	Z1.3 Z1.6	631		(mV)	sample		

MANAGER:	MSS	- and, Ca				GHA.19009		
WELL ID:	Mw	-5	-	7	TYPE (OF WELL:	Monitoring	
Water Col	Total Depth: pth to Water: lumn Length: ILATION:	PERSONAL ASSOCIATION OF THE PERSON OF THE PE	-	2· 4· 6·	!-inch: inch: inch: _		· ·	
	x		_ X	_		=	6	
MULTIPLIER DATA: Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter: 2-inch: 0.17 4-inch: 0.65 6-inch: 1.5								
Dispo Subme	PVC Bailer		SAMPLE N - - -			Pump:		
VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS	
							Blien	
							Salm	
Ville It	WELL ID: WELL ID: WELL ID: Well Der Water Column Ter Column Ler R DATA: Multiplier for S Subme VOLUME PURGED	WELL ID: WELL ID: WELL ID: WELL ID: WELL ID: WHIT Total Depth: Depth to Water: Water Column Length: Water Column Length x Minum Length X Ter Column Length R DATA: Multiplier for Schedule 40 F 2-inch: 4-inch: 6-inch: THOD: Disposable Bailer PVC Bailer Submersible Pump Other VOLUME PURGED pH	MANAGER: MSS ESS: 403 East 12th Street, Oakl WELL ID: MW -5 LUMN DATA: (feet) Well Total Depth: Depth to Water: Water Column Length: Water Column Length x Multiplier x No. Yeter Column Length x Multiplier R DATA: Multiplier for Schedule 40 PVC; Gallons/2-inch: 0.17 4-inch: 0.65 6-inch: 1.5 THOD: Disposable Bailer PVC Bailer Submersible Pump Other VOLUME PURGED pH TEMP.	WELL ID: WELL ID: WELL ID: WELL ID: WELL ID: Well Total Depth: Depth to Water: Water Column Length: Water Column Length x Multiplier x No. Volumes = F Ter Column Length Water Column Length x Multiplier X X X X X A A A A A A A A	MANAGER: MSS	MANAGER: MSS	MANAGER: MSS	

FIELD TECHNICIAN:	put 1	
DATE:	12/15/14	\

PROJECT I PROJECT I SITE ADDR	MANAGER:	Shore Acres MSS 403 East 12t	Gas h Street, Oakl	- and, Ca	PROJECT NU TASK NUMB		GHA.19009
	WELL ID:	Mu	V-6	-	TYPE	OF WELL:	Monitoring
WATER CO	De	Total Depth:	7-62	- - -	WELL DIAME 2-inch: 4-inch: 6-inch:	ETER:	- - -
PURGE VO	L UME CALCU Water Colum		ultiplier x No. '	Volumes =	Purge Volume		
Wa	رک _ی صار ter Column Le	_ x nath	<u></u> ∆ ∫ } Multiplier	_ x	No. Volumes	=	Purge Volume
MULTIPLIE		Schedule 40 2-inch: 4-inch: 6-inch:	0.17 0.65	Linear Foot	Based on Cas	ing Diame	ter:
PURGE ME	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I - - -		able Bailer Pump: Other:	
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1100	7	7.[[20.6	6(4			
158 158 158 158 158	(0-L	7.00	70.7 70.3	(0) 590			
7200							souple

FIELD TECHNICIAN:	Ju 1	
DATE:	12/15	

Argon Analytical Services, Inc. CHAIN OF CUSTODY

	Report To:								Samples Submitted To:									
Project No:	GHA 19009 Shore Acres Gas					Consultant: Environmental Compliance Group, LLC									Laboratory: Argon Labs			
Project Title:						Address: 270 Vintage Drive						Address:			s:	2905 Railroad Avenue		
Location:	403 East 12				l	_		, CA 953	82								Ceres, CA 95307	
Complete Name:	Oakland, C	Α	···		Contac		Mike St 916.600	gourakis						Contact		ř	(000) 501	
Sampler's Name: (print)	100				Phone:									Phone:			(209) 581-9280	
Sampler's Signature:					Fax: 209.664.1040 Bill To:								Fax: Date Results Required				(209) 581-9282	
Sampler & Signature	G				-				ын то.					Date Ke	suits Req	uirea:		
				Cilent: Environmental Compliance G							e Group, LLC Date Report Requ			nort Regu	iired:			
			Address: 270 Vintage Drive															
					<u> </u>			Turlock,	, CA									
TURN AROUND TIME						ANALYSIS												-
RUSH	24 Hou	r 48 Hour	Standard	Special	TPHg by EPA Method 8015M	BTEX, 5 oxygenates, 1,2-DCA, EDB by EPA Method 8260B		1.										
		·	(5 days)	(10-14 days)	<u>₹</u>	at a		1									-	
					≥	2 2 2	1										-	
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			. *	3	_ ھَ ا	ې خ څ				1.	1.	1				EDF Reports		
			•		TPHg t 8015M	P. 호 함										1 E	1	
				<u> </u>	4 è	18 12 P		7	<u> </u>					ŀ			COMMENTS	
Sample ID.	Date	Time	# Containers	Matrix				1	•								Preservative	
MW-1	1717	1 1100	3	ساعا	Y	X										بإ	·	
MW-2	1	عدرا												;				
MW-3	·	1135							Š								•	
MW-4		しつうう						<u> </u>										
MW-5		1235												ļ ·				
MW-6		1200																
EW-1		1250					<u> </u>				<u> </u>							
EW-2	<u> </u>	1300					1											
EW-3		1255			1 4				ļ <u></u>						ļ		<u> </u>	
EW-4	J	1305	J	¥	₹				<u> </u>		•					J		
											1					•	· · · · · · · · · · · · · · · · · · ·	
											1							
Relinfulshed By: VM Date C IY Time: 500					Received By						Date:	16/14	Time:	16:3	3D	SPECI	AL INSTRUCTIONS: Global ID#	
Relinquished By: Date:				Time:	Received By:						Date:		Time:		-		T0600174667	
Relinquished By:			Date:	Time:	Receive	d By:					Date:		Time:					
			<u></u>															