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January 5, 2016

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

Subject: Third Quarter 2015 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 December 31, 2015 *Third Quarter 2015 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

11-5 li



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THIRD QUARTER 2015 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. R00002931

December 31, 2015

MICHAEL S. S. S. S. S. No. 7194 S. CALSON

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 Third Quarter 2015 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. The groundwater flow direction appears to be generally toward the south.

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 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. The remediation system was shut down on February 18, 2015 due to complaints from neighbors regarding the propane tank onsite providing supplemental fuel to the remediation equipment. ECG supervised the installation of natural gas provided by PG&E to the site and the system was restarted on August 11, 2015.

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 7,420 pounds of TPHg, 34 pounds of benzene, and 1.4 pounds of MTBE from the subsurface.

THIRD QUARTER 2015 MONITORING EVENT

WORK PERFORMED AND PROPOSED

The following is a summary of work performed during the third quarter 2015 and work proposed for next quarter at the site.

WORK PERFORMED THIRD QUARTER 2015

- 1. The third quarter 2015 groundwater monitoring event was performed on September 29, 2015.
- 2. The remediation system was restarted on August 11, 2015.
- 3. ECG performed DPE system startup, troubleshooting, and maintenance to the O&M unit.

WORK SCHEDULED FOR FOURTH QUARTER 2015

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

DISCUSSION OF RECENT MONITORING ACTIVITIES

ECG performed the third quarter 2015 groundwater monitoring and sampling event at the site on September 29, 2015. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix A. The collected groundwater samples were submitted to California Agricultural and Environmental Labs 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 13.25-feet below ground surface (bgs)

Average Groundwater Elevation 18.36 -feet above mean sea level Groundwater Gradient Direction Southeast

Groundwater Gradient Direction Southeast
Groundwater Gradient 0.050 feet/foot

TPHg Detected Range 1,300 ug/L (MW-2) to 17,000 ug/L (MW-4)
Benzene Detected Range 29 ug/L (MW-2) to 1,400 ug/L (EW-2)
MTBE Detected 4.1 ug/L (MW-2) to 410 (MW-3)

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 remediation system was shut down on February 18, 2015 due to complaints from neighbors regarding the propane tank onsite providing supplemental fuel to the remediation equipment. ECG supervised the installation of natural gas provided by PG&E to the site and the system was restarted on August 11, 2015.

Third Quarter 2015 Groundwater Monitoring and Remediation Status Report Shore Acres Gas 403 East 12th Street, Oakland, California

ECG performed remediation system monitoring and operations and maintenance activities on August 11 and 25, September 1, 22, and 29, 2015. 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.

The following is a summary of the third quarter 2015 remediation results at the site:

SVE System Operating Hours 720 hours, 30 days

Active SVE Extraction Points Varied
Average Influent Flowrate 127 scfm

TPHg Detected Range in SVE Influent 91 parts per million by volume (ppmv) to 344

ppmv

Benzene Detected Range in SVE Influent 1.4 ppmv to 2.7 ppmv

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

per day emission

Average Groundwater Extraction Rate 1.0 gallons per minute (gpm)

Average TPHg Detected in Groundwater Influent 10,525 ug/L Average Benzene Detected in Groundwater Influent 743 ug/L Average MTBE Detected in Groundwater Influent 103 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 30 days during the third quarter of 2015 from August 11, 2015, when the system was restarted to September 29, 2015. Approximately 115 pounds of TPHg, 1.3 pounds of benzene, and 0.1 pounds of MTBE were removed from the soil beneath the site during this quarter (Table 5a). Approximately 40 pounds of TPHg, 2.9 pounds of benzene, and 0.4 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. The next groundwater monitoring event will be in fourth 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 O 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

Third Quarter 2015 Groundwater Monitoring and Remediation Status Report Shore Acres Gas $$^{\land}$$ 403 East 12th Street, Oakland, California

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

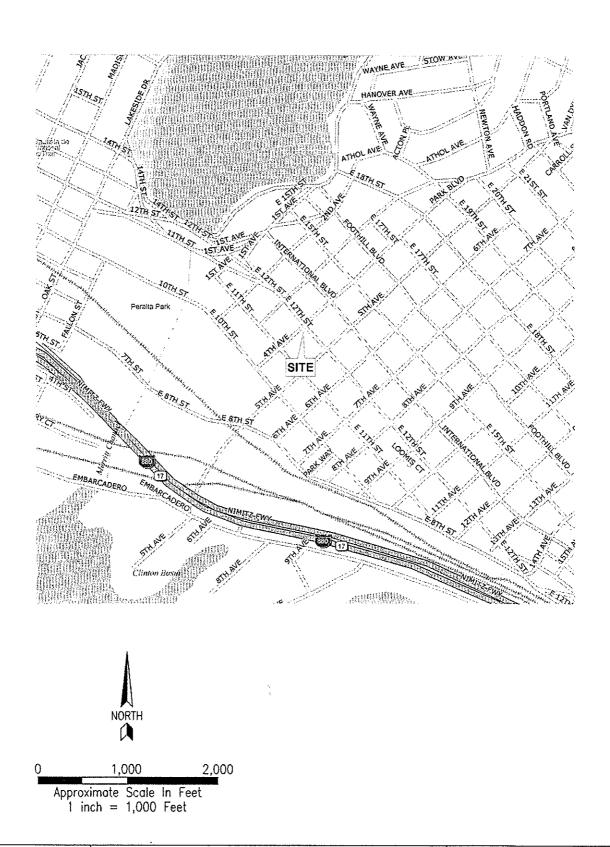


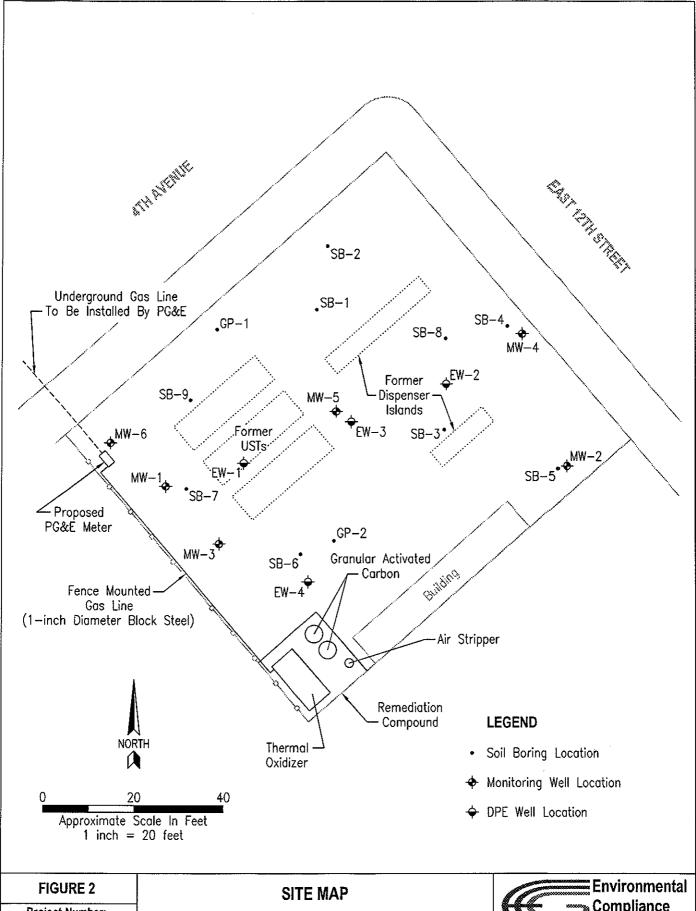
FIGURE 1

Project Number: GHA.19009

Date: February 9, 2011

SITE LOCATION MAP





Project Number: GHA,19009

Date: February 26, 2015

Shore Acre Gas 403 East 12th Street Oakland, California



270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035





Gradient Direction Is Radially 50 100 Outward From MW-5 Approximate Scale In Feet

1 inch = 50 feet

FIGURE 3

Project Number: GHA.19009

Date: January 18, 2016

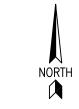
POTENTIOMETRIC SURFACE MAP **SEPTEMBER 29, 2015**

Shore Acre Gas 403 East 12th Street Oakland, California



i=0.018 General Gradient





♦ Monitoring Well Location

♦ Vapor Extraction Well Location

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

Approximate Scale In Feet 1 inch = 50 feet

50

(17,000)

100

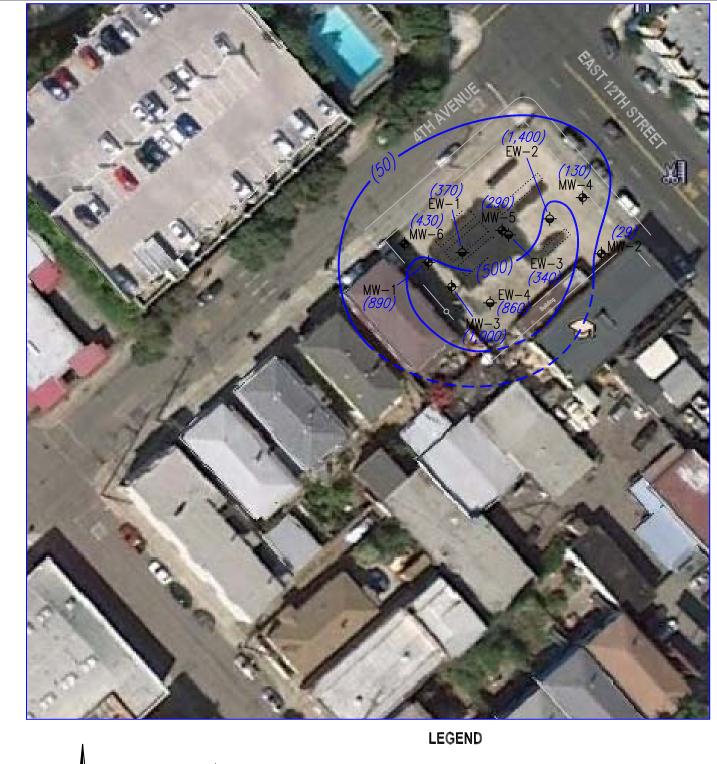
FIGURE 4

Project Number: GHA.19009

Date: January 18, 2016

TPHg IN GROUNDWATER ISOCONCENTRATION MAP SEPTEMBER 29, 2015





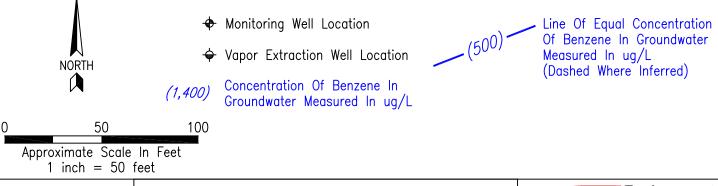


FIGURE 5

Project Number: GHA.19009

Date: January 18, 2016

BENZENE IN GROUNDWATER ISOCONCENTRATION MAP SEPTEMBER 29, 2015





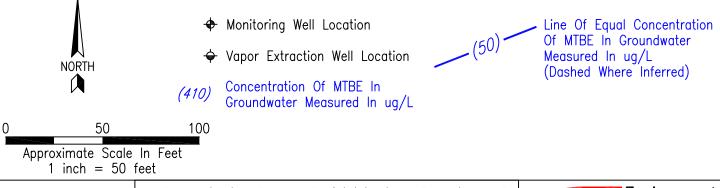


FIGURE 6

Project Number: GHA.19009

Date: January 18, 2016

MTBE IN GROUNDWATER ISOCONCENTRATION MAP SEPTEMBER 29, 2015



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 '	Monitoring Wells										
MW-1		30.81	20	2	PVC	0.020/#3	10-20				
MW-2	2011	31.29	20	2	PVC	0.020/#3	10-20				
MW-3		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				
	Extraction We	elis									
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	May 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

amsl - 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	nples							
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] [460*	1,000	<0.15	<0.15	12	14
SS-D4	2] [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	August [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		830*	2,500	4.2	100	69	360
Tank 1-SS-2	14.0] [62*	480	1.8	5.3	14	62
Tank 2-SS-1	14.0		120*	290	0.37	2.4	6.3	31
Tank 2-SS-2	14.0] [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								
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,,2000	<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]	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	7		<1.0	<0.005	<0.005	<0.005	<0.010
SB-1-29.5	29.5	7		<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-9.5	9.5	7		2.2	0.26	<0.010	0.066	<0.020
SB-2-24.5	24.5	7		<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			17	17	100	42	240
SB-3-24.5	24.5			<1.0	<0.005	0.005	<0.005	0.013
SB-3-29.5	29.5	7		<1.0	<0.005	<0.005	<0.005	<0.010
SB-4-14.5	14.5			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			<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-14.5	14.5	7		470	<0.20	0.45	6.2	37
SB-5-24.5	24.5	7		<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-29.5	29.5	7		<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-9.5	9.5			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	1		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	7		<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
DOTTING ID	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	benzene	xylenes
	(feet)		(**************************************				(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			<1.0	<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	i		<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-32	32.0	1		<1.0	<0.005	<0.005	<0.005	<0.010
Groundwater Well	1	<u> </u>						
MW-1-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-1-15	15	1 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	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-10	10	1	<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	1	<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	1	<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		<5.0	<1.0	0.007	0.017	0.010	0.039
MW-5-5	5	June 2011	<5.0	76	<0.10	<0.10	1.3	0.76
MW-5-10	10	1	<15	3,200	4.6	6.5	72	410
MW-5-15	15	1	<5.0	600	1.3	13	15	110
MW-6-5	5	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-10	10	7	<5.0	5.1	0.015	<0.010	3.4	1.0
MW-6-15	15	7	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-20	20	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-1-5	5	1	<5.0	34	<0.005	<0.005	0.16	0.31
VW-1-10	10	1	<15	85	<0.10	<0.10	2.2	0.89
VW-1-15	15	7	<15	420	2.1	4.1	9.4	55
VW-1-20	20	7	<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	7	<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	7	<5.0	<1.0	0.14	0.054	0.025	0.14

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	ТВА	1,2-DCA	EDB
]	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	(feet)	[,					
UST Removal Sam		<u> </u>	***************************************						
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	<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] [<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 1	<0.050	<0.050	0.18	<0.050	0.35	<0.050	<0.050
Tank 2-SS-2	14] [<0.025	<0.025	0.090	<0.025	0.16	<0.025	<0.025
Tank 3-SS-1	14] [<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 3-SS-2	14]	<0.025	<0.025	0.19	<0.025	0.15	<0.025	<0.025
Soil Borings	·								
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	<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	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-2-9.5	9.5	1	<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
SB-2-24.5	24.5]	<0.005	<0.005	0.053	<0.005	<0.050	<0.005	<0.005
SB-2-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-3-14.5	14.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-3-24.5	24.5	7	<0.005	<0.005	0.10	<0.005	<0.050	<0.005	<0.005
SB-3-29.5	29.5		<0.005	<0.005	0.010	<0.005	<0.050	<0.005	<0.005
SB-4-14.5	14.5	7	<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		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-6-9.5	9.5	7	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-6-29.5	29.5	7	<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		<0.005	<0.005	0.18	<0.005	<0.050	<0.005	<0.005
SB-7-32	32.0	7 .	<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	TBA	1,2-DCA	EDB
Bornig ib	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	(feet)		(***0,**0,*	, ,,					
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	1	<0.005	<0.005	0.090	<0.005	0.15	<0.005	<0.005
SB-9-32	32.0	1	<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005
Groundwater Well		·							
MW-1-5	5		<0.005	<0.005	0.35	<0.005	0.093	<0.005	<0.005
MW-1-15	15	1 [<0.050	<0.050	1.1	<0.050	<0.50	<0.050	<0.050
MW-1-20	20	1	<0.005	<0.005	0.31	<0.005	0.58	<0.005	<0.005
MW-2-5	5	1 1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-2-10	10	1	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-15	15	1	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-20	20	1	<0.005	<0.005	0.006	<0.005	<0.050	<0.005	<0.005
MW-3-5	5	1	<0.010	<0.010	1.5	<0.010	0.37	<0.010	<0.010
MW-3-10	10	1	<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	1	<0.005	<0.005	0.036	<0.005	0.16	<0.005	<0.005
MW-4-5	5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-4-10	10	1	<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	1 2014	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-5-5	5	June 2011	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
MW-5-10	10	1	<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
MW-5-15	15	1	<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-6-5	5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-6-10	10	1	<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-6-15	15	1	<0.005	<0.005	0.026	<0.005	0.088	<0.005	<0.005
MW-6-20	20	1	<0.005	<0.005	0.010	<0.005	0.37	<0.005	<0.005
VW-1-5	5	1	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
VW-1-10	10	1	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
VW-1-15	15	1	<0.40	<0.40	0.59	<0.40	<4.0	<0.40	<0.40
VW-1-20	20	1	<0.005	<0.005	0.009	<0.005	0.16	<0.005	<0.005
VW-2-5	5	1	<0.005	<0.005	0.25	<0.005	0.14	<0.005	<0.005
VW-2-10	10	1	<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	7	<0.005	<0.005	0.008	<0.005	0.26	<0.005	<0.005
		1						<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

denotes ethyl tertiary butyl ether

DCA - denotes dichloroethane

denotes tertiary amyl ether TAME -

EDB - denotes ethylene dibromide

TBA -

ETBE -

denotes tertiary butyl alcohol

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	Excavation										
	August				,						
Pit Sample 1	2009	21,000	21,000	3,800	1,000	1,200	3,700				
Direct Push Gra	b Groundwa	ter Sample	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	1		270	<12	<12	<12	<25				
SB-8	1		<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	1		4,700	620	290	84	400				
SB-13	,		400	51	2.4	4.2	9.7				
SB-14]		<50	1.7	<0.5	2.1	<1.0				
SB-15	December		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				

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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

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)				
Excavation												
	February	<10	<10	15,000	39	17,000	<10	<10				
Water	2000											
Direct Push Gra	b Groundwa	ter Sampl	es				4					
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	April 2010	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0				
SB-5		<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5				
SB-6	1	<20	<20	4,000	<20	<200	<20	<20				
SB-7	1	<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	1 i	<5.0	<5.0	100	<5.0	550	<5.0	<5.0				
SB-13	1 1	<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	2011	<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	1	<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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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)
Monitoring	Wells								
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				Inaccessibl	e			
	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
	3/31/2015	8.81	22.00		38,000	1,200	230	810	2,600
	9/18/2015	12.23	18.58		7,600	890	38	240	360
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	42	12	97	110
	12/15/2014	8.65	22.64		85	14	3.3	5.2	13
	3/31/2015	9.83	21.46						
	9/18/2015	12.45	18.84		1,300	29	8.9	44	120

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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-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
	3/31/2015	9.37	21.93		13,000	1,300	270	230	700
	9/18/2015	13.13	18.17		8,300	1,000	150	150	440
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		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		2,100	110	54	92	210
	12/15/2014	8.45	22.76		720	58	32	29	33
	3/31/2015	9.46	21.75						
	9/18/2015	12.03	19.18		17,000	130	33	70	200

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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-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		F	ree product	- not sample	ed	
	3/27/2013	9.21	22.14		F	ree product	- not sample	ed	
	5/20/2013	9.17	22.18		F	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
	3/31/2015	9.36	21.99		34,000	1,100	570	500	2,000
	9/18/2015				9,800	290	23	140	270
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					Inacc	essible		
	5/20/2013					Inacc	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
	3/31/2015	8.75	22.04		10,000	330	12	80	73
	9/18/2015	11.61	19.18		7,000	430	24	120	110

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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)
DPE Wells		,							
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	1,400	210	1,900	2,400
	9/19/2014	12.41	19.05		28,000	1,000	450	1,400	3,900
	12/15/2014	8.20	23.26		4,000	560	29	150	150
	3/31/2015	9.30	22.16					787	
	9/18/2015	13.25	18.21		6,900	370	5.5	190	210
EW-2	6/28/2011				33,000	3,100	2,000	790	3,500
	9/22/2011	12.50	18.90	<250	66,000	2,400	4,500	2,000	11,000
	12/11/2011	12.12	19.28		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		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	4,500
	3/27/2013	9.24	22.16	<100	18,000	940	790	390	1,700
	5/20/2013	9.21	22.19	<50	10,000	540	430	220	790
	9/4/2013	9.88	21.52	<250	10,000	680	580	480	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
	3/31/2015	9.90	21.53						
	9/18/2015	15.10	16.33		16,000	1,400	2,400	520	3,400

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)
EW-3	5/20/2013	8.82		<50	1,300	430	540	280	1,000
	9/4/2013	9.49	P-4 %	<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
	3/31/2015	9.31			8,000	170	18	130	560
	9/18/2015	13.98			12,000	340	110	180	1,900
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	170	320	1,000
	3/31/2015	9.78			23,000	1,000	1,200	420	1,700
	9/18/2015	15.45			7,200	860	62	55	130

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 not available/applicable

FLH - denotes floating liquid hydrocarbons

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

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Shore Acres Gas 403 East 12th Street Oakland, California

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)
тос								
Monitoring	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	2		
	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
	3/31/2015	<5.0	<5.0	330	<5.0	<50	<5.0	<5.0
	9/18/2015	<5.0	<5.0	150	<5.0	<50	<5.0	<5.0
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	16	<5.0	<50	<5.0	<5.0
	12/15/2014	<0.5	<0.5	7.3	<0.5	23	<0.5	<0.5
	3/31/2015							
	9/18/2015	<0.5	<0.5	4.1	<0.5	<5.0	<0.5	<0.5
	., .,							

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Shore Acres Gas 403 East 12th Street Oakland, California

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-3	6/23/2011	<100	<100	8,200	<100	6,400	<100	<100
	9/22/2011	<100	<100	11,000	<100	2,800	<100	<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	<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
	3/31/2015	<5.0	<5.0	980	<5.0	610	<5.0	<5.0
	9/18/2015	<5.0	<5.0	410	<5.0	410	<5.0	<5.0
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	56	<50	<500	<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
	3/31/2015							
	9/18/2015	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0

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Shore Acres Gas 403 East 12th Street Oakland, California

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)
тос								
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			Shee	en - not sam	pled		
	9/14/2012			Free pr	oduct - not s	sampled		
	3/27/2013			Free pr	oduct - not :	sampled		
	5/20/2013			Free pr	oduct - not :	sampled		
	9/4/2013			Free pr	oduct - not :	sampled	T	
	12/6/2013	<25	<25	270	<25	<250	<25	<25
	6/27/2014			Free pr	oduct - not :	sampled		T
	9/19/2014	<25	<25	75	<25	<250	<25	<25
	12/15/2014	<0.5	<0.5	370	<0.5	340	<0.5	<0.5
	3/31/2015	<5.0	<5.0	71	<5.0	280	<5.0	<5.0
	9/18/2015	<5.0	<5.0	15	<5.0	<50	<5.0	<5.0
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	e		
	5/20/2013		···		Inaccessible	2		
	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
	3/31/2015	<5.0	<5.0	12	<5.0	<50	<5.0	<5.0
	9/18/2015	<2.5	<2.5	9.6	<2.5	<25	<2.5	<2.5

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Well	Date	DIPE	ЕТВЕ	MTBE	TAME	ТВА	1,2-DCA	EDB
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
тос								
DPE Wells	· · ·							
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
	3/31/2015							
	9/18/2015	<2.5	<2.5	100	<2.5	<25	<2.5	<2.5
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	<100	<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
	3/31/2015							
	9/18/2015	<10	<10	50	<10	<100	<10	<10
	į							

Shore Acres Gas 403 East 12th Street Oakland, California

Well ID TOC	Date Measured	DIPE (ug/L)	ETBE (ug/L)	MTBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
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
	3/31/2015	<5.0	<5.0	38	<5.0	68	<5.0	<5.0
	9/18/2015	<5.0	<5.0	120	<5.0	<50	<5.0	<5.0
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
	3/31/2015	<5.0	<5.0	140	<5.0	310	<5.0	<5.0
	9/18/2015	<5.0	<5.0	140	<5.0	420	<5.0	<5.0

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

		1	Influer	nt Sample F	lesults	Extrac	tion Rates (lb/day)	Cumula	Cumulative Extraction (lb)		
Date	Meter* (hours)	Influent 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	8.0	
06/27/14	988.2				Unit she	ut down for	Carbon Cha	nge 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	< 0.1	144	0.77	0.0	6,042	29.7	0.9	
10/28/14	1,750.4	146.0	130	2.4	0.44	8.0	0.11	0.0	6,114	30.6	1.1	
12/09/14	2,142.4	154.0	610	2.6	0.23	40	0.13	0.0	6,760	32.7	1.3	
02/18/15	2,708.3			Sy	stem shut o	down, propa	ne tank rem	oved from s	ite			
08/11/15	2,708.9					System	restarted					
08/25/15	2,864.4	125.0	344	2.7	< 0.1	18	0.11	0.0	7,305	32.6	1.3	
09/29/15	3,428.0	128.0	91	1.4	< 0.1	5	0.06	0.0	7,420	33.9	1.4	

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 30.0

ft3 = cubic feet

min = minutes

lb/day = pounds per day

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

t³ scfm = standard cubic feet per minute

NS = not sampled

NA = not analyzed

NC = not calculated

Extraction rate = (flow rate(ft³/min) x concentration (ft³ / $1x10^6$ ft³) x $MW_{TPHg}(Ib/Ib-mol)$ 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

	Stack	Stack Sa	mple Result	s (ppmv)	Emiss	ion Rates (lb/day)	Destru	ction Efficie	ncy (%)
Date	Flow Rate (scfm)	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
05/27/14	106.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
06/17/14	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
08/19/14	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0
09/25/14	163.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.003	< 0.006	100.0	100.0	100.0
10/28/14	146.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
12/09/14	154.0	< 5.0	< 0.050	< 0.10	< 0.3	< 0.002	< 0.005	100.0	100.0	100.0
02/18/15	154.0		· · · · · · · · · · · · · · · · · · ·	System sl	nutdown ar	d propane ta	nk removed	I from site		
08/11/15	121.0			• • • • • • • • • • • • • • • • • • • •		System resta	ırt			
08/25/15	125.0	< 5.0	< 0.050	< 0.10	< 0.2	< 0.002	< 0.004	100.0	100.0	100.0

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 / $1x10^6$ 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 = $ft^3 / 1 \times 10^6 ft^3$

NS = not sampled

min = minutes

NA = Not applicable

scfm = standard cubic feet per minute

Table 5c Groundwater Treatment System Performance Data

Shore Acres Gas 403 East 12th Street Oakland, California

	TOTAL	AVG. PERIOD	Influent \	Vater Analytica	l Results	Estin	nated Removal	Rates	Estima	ated Removal (I	Period)	Estimate	d Removal (Cu	mulative)
DATE	FLOW	FLOW RATE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
	(gallons)	(gallons/min)	(ug/L)	(ug/L)	(ug/L)	(lb/day)	(lb/day)	(lb/day)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(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	Change Out					
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
02/18/15	766,392	1.64	15,500	585	89	0.30	0.011	0.002	19.79	0.75	0.11	76.27	5.95	0.54
02/18/15	766,392					Unit S	Stut Down for C	hange from Pr	opane to Natur	al Gas				
08/11/15	766,392					•		Unit Restarted	i					
09/18/15	849,579	1.52	10,525	743	103	0.19	0.014	0.002	40.72	2.87	0.40	117.00	8.83	0.94
														I

83,187 total gallons pumped during current reporting period

1386 average gallons per day during current reporting period

1.0 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 NS - Not Sampled MTBE - Methyl tertiary butyl ether

TPHg - Total Petroleum Hydrocarbons as gasoline

--- - Not Analyzed

TBA -Tertiary butyl ether

40.72

2.87

0.40

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, 1/4-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 Railroad Avenue, Ceres, CA 95307 Phone: (209) 581-9280 Fax: (209) 581-9282

29 September 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 09/18/15 15:00 by California Agriculture & Environmental Laboratory. 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, Wayn Thut

Wayne Scott Lab Manager Argon Analytical Services, Inc. CHAIN OF CUSTODY

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12.0	Pr	oject Informati	on:		T			F	Report To		100	<u> </u>	, 1120	تللك	S	amples Submitted To:
Project No: Project Title: Location: Sampler's Name:	GHA.19009 Shore Acres G 403 East 12th Oakland, CA	as Street			Consul Addres Contac Phone:	s: t:	270 Vin Turlock	mental C tage Driv , CA 953 gourakis	compliance /e		LLC		Laboratory: Address: Contact: Phone:			Argon Labs 2905 Railroad Avenue Ceres, CA 95307 (209) 581-9280
(print)	7亿	\mathcal{M} uu	75-0/		Fax:		209.664						Fax:			(209) 581-9282
Sampler's Signatu	ire:	. 1	l li						Bill To:				Date Results	Require	d:	
			anth.		Client: Addres	s:			mental Co stage Drive			rc	Date Report	Require	d	
DUCH		URN AROUND TI		Consist	 	1 6	1	1	 	ANAL	YSIS		т т	T		
RUSH	24 Hour	48 Hour	Standard (5 days)	Special (10-14 days)	TPHg by EPA Method 8015M	BTEX, 5 oxygenates, 1,2-DCA, EDB by EPA Method 8260B									EDF Reports	COMMENTS
Sample ID.	Date	Time	# Containers	Matrix	<u> </u>	<u> </u>	<u> </u>						 		1.	Preservative
MW-1	9/8/13	176	3	water	×	×							<u> </u>		X_	-01
MW-2	1	olo	1												1	-07
MW-3		1100														-03
MW-4		0955		1											Maria de la composição	-04
MW-5		103(-65
MW-6		1053														-06
EW-1		1130												į		-07
EW-2		1135														-08
EW-3		1140			1											-09
EW-4	U	1145	J/		V	V	<u> </u>								1	_ 10
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Argon Laboratories Sample Receipt Checklist

Client Name:	ient Name: Environmental Compliance Group, LLC					Date & Time Received: 09/18/15 15:					<u>15:00</u>		
Project Name:	Shore Acres G	as						Clien	it Project Number	:	GHA	<u> 1900</u>	9
Received By:	DP			Matr	ix:	Water	V	Soil		Slud	ge		
Sample Carrier:	Client 🔽	Lab	oratory		Fed Ex		UPS		Other 🗌				
Argon Labs Project	t Number:	R50	9019/15	090166									
Shipper Container in	good condition?					Sample	es receive	d in prop	er containers?	Yes	V	No	
	N/A	Yes	V	No		Sample	es receive	d intact?		Yes	V	No	
Samples received un	der refrigeration?	Yes	V	No		Sufficie	ent sample	volume	for requested tests	? Yes	V	No	
Chain of custody pres	sent?	Yes	V	No		Sample	es receive	d within I	nolding time?	Yes	V	No	
Chain of Custody sign	ned by all parties?	Yes	V	No		Do san	nples cont	ain prope	er preservative?	Yes	7	No	
Chain of Custody ma	tches all sample la	bels?				Do VOA	vials conta	ain zero h	eadspace?				
		Yes	V	No				(None s	submitted 🗾)	Yes		No	
	ΔNV "A	Jo" Ri	SPONS:	F MUST	RF DFTA	III ED IN	THE COL	MMENTS	S SECTION BELOV	N			
													· · · · ·
Date Client Contac	ted:			_	Pe	rson Co	ntacted:					· · · · · · · · · · · · · · · · · · ·	
Contacted By:					Subject						• •		
Comments:	·												
Action Taken:													
Addon Taken.													
						•							
				ADDITIO	NAL TES	T(S) RE	QUEST /	OTHER					
Contacted By:		· · · · · · · · · · · · · · · · · · ·			 	D	ate:	<u></u>	No. of the second secon	Tim	e:	.,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
Call Received By:					_								
Comments:											· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·



CALIFORNIA AGRICULTURE & ENVIRONMENTAL

LABORATORY 2905 Railroad Avenue, Ceres, CA 95807

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.: R509019

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-I	R509019-01	Water	09/18/15 11:25	09/18/15 15:00
MW-2	R509019-02	Water	09/18/15 10:16	09/18/15 15:00
MW-3	R509019-03	Water	09/18/15 11:06	09/18/15 15:00
MW-4	R509019-04	Water	09/18/15 09:55	09/18/15 15:00
MW-5	R509019-05	Water	09/18/15 10:31	09/18/15 15:00
MW-6	R509019-06	Water	09/18/15 10:53	09/18/15 15:00
EW-1	R509019-07	Water	09/18/15 11:30	09/18/15 15:00
EW-2	R509019-08	Water	09/18/15 11:35	09/18/15 15:00
EW-3	R509019-09	Water	09/18/15 11:40	09/18/15 15:00
EW-4	R509019-10	Water	09/18/15 11:45	09/18/15 15:00

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Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 953 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: R509019

Total Petroleum Hydrocarbons @ Gasoline

Analyte Result	Reporting Limit	Units	Dilution	Analyzed	Method	Note
MW-1 (R509019-01) Water Sampled: 18-Sep-15 11:2	5 Received:	18-Sep-	15 15:00	•		
Total Petroleum Hydrocarbons @ 7600 Gasoline	500	ug/L	10	26-Sep-15	8015M	
Surr. Rec.:	118 %			н	n	
MW-2 (R509019-02) Water Sampled: 18-Sep-15 10:1-	6 Received:	18-Sep-	15 15:00			
Total Petroleum Hydrocarbons @ 1300 Gasoline	120	ug/L	2.5	26-Sep-15	8015M	
Surr. Rec.:	103 %			"	"	C. COLCON CHANNA , TANDETT BEARING
MW-3 (R509019-03) Water Sampled: 18-Sep-15 11:00	6 Received:	18-Sep-	15 15:00			
Total Petroleum Hydrocarbons @ 8300 Gasoline	250	ug/L	5	26-Sep-15	8015M	
Surr. Rec.:	134 %			"	"	
MW-4 (R509019-04) Water Sampled: 18-Sep-15 09:5:	5 Received:	18-Sep-	15 15:00			
Total Petroleum Hydrocarbons @ 17000 Gasoline	250	ug/L	5	26-Sep-15	8015M	
Surr. Rec.;	95 %			"	"	
MW-5 (R509019-05) Water Sampled: 18-Sep-15 10:3	1 Received:	18-Sep-	15 15:00			
Total Petroleum Hydrocarbons @ 9800 Gasoline	250	ug/L	5	26-Sep-15	8015M	
Surr. Rec.:	130 %			n	u	
MW-6 (R509019-06) Water Sampled: 18-Sep-15 10:5.	3 Received:	18-Sep-	15 15:00			
Total Petroleum Hydrocarbons @ 7000 Gasoline	120	ug/L	2.5	26-Sep-15	8015M	
Surr. Rec.:	117%			"	"	
EW-1 (R509019-07) Water Sampled: 18-Sep-15 11:30	Received:	18-Sep-1	5 15:00			
Total Petroleum Hydrocarbons @ 6900 Gasoline	120	ug/L	2.5	26-Sep-15	8015M	
Surr. Rec.:	104 %			n	и	

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Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 9533 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: R509019

Total Petroleum Hydrocarbons @ Gasoline

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-2 (R509019-08) Water	Sampled: 18-Sep-15 11:35	Received:	18-Sep-1	5 15:00			
Total Petroleum Hydrocarbo Gasoline	ons @ 16000	500	ug/L	10	26-Sep-15	8015M	
Surr. Rec.:		108 %			H	"	
EW-3 (R509019-09) Water	Sampled: 18-Sep-15 11:40	Received:	18-Sep-1	5 15:00			
Total Petroleum Hydrocarbo Gasoline	ons @ 12000	250	ug/L	5	26-Sep-15	8015M	
Surr. Rec.:		105 %			"	"	
EW-4 (R509019-10) Water	Sampled: 18-Sep-15 11:45	Received:	18-Sep-1	5 15:00			
Total Petroleum Hydrocarbo Gasoline	ons @ 7200	250	ug/L	5	26-Sep-15	8015M	
Surr. Rec.:		120 %			"	"	

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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.: R509019

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (R509019-01) Water	Sampled: 18-Sep-15 11:25	Received:	18-Sep-	15 15:00			
Benzene	890	5.0	ug/L,	10	22-Sep-15	8260B	
Toluene	38	5.0	#	μ ,	at a	11	
Xylenes, total	360	10	ŧ	U	11	u	
Ethylbenzene	240	5.0	ŧŧ	ii .	1r	11	
t-Butanol	ND	50	52	и	11"	31	
Methyl tert-Butyl Ether	150	5.0	Ħ	ı	Ħ	91	
Di-Isopropyl Ether	ND	5.0	ļi	И	#1	31	
Ethyl tert-Butyl Ether	ND	5.0	н	12	tr	11	
tert-Amyl Methyl Ether	ND	5.0	н		10	•	
1,2-Dichloroethane	ND	5.0	Ð	*	Ħ	н	
1,2-Dibromoethane (EDB)	ND	5.0	u	19	H	n	
Surr. Rec.:	WATER AND	99 %			"	¥	
MW-2 (R509019-02) Water	Sampled: 18-Sep-15 10:16	Received:	18-Sep-	15 15:00		-	
Benzene	29	0.5	ug/L	ı	22-Sep-15	8260B	***
Toluene	8.9	0.5	n	16	u	н	
Xylenes, total	120	1.0	0	46	и	O C	
Ethylbenzene	44	0.5	H	В	н	71	
t-Butanol	ND	5.0	e	н	n	30	
Methyl tert-Butyl Ether	4.1	0.5	п	W	n	tr .	

Surr. Rec.:

Di-Isopropyl Ether

1,2-Dichloroethane

Ethyl tert-Butyl Ether

tert-Amyl Methyl Ether

1,2-Dibromoethane (EDB)

Wayne & Satt

0.5 95 %

0.5

0.5

0.5

0.5

ND

ND

ND

ND

ND

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

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: R509019

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Note
MW-3 (R509019-03) Water	Sampled: 18-Sep-15 11:06	Received:	18-Sep-	15 15:00			
Benzene	1000	5.0	ug/L	10	22-Sep-15	8260B	
Toluene	150	5.0	p	et .	D	В	
Xylenes, total	440	10	JP.	54	n	U	
Ethylbenzene	150	5.0)E	o o	(†	19	
t-Butanol	410	50	14	37	и	U	
Methyl tert-Butyl Ether	410	5.0	Is	3*	11	n	
Di-Isopropyl Ether	ND	5.0	Iŧ.	Ħ	4f	b	
Ethyl tert-Butyl Ether	ND	5.0	19	IÈ	**	n	
tert-Amyl Methyl Ether	ND	5.0	14	If	at the state of th	19	
1,2-Dichloroethane	ND	5.0	11	16	ts	b	
1,2-Dibromoethane (EDB)	ND	5.0	н	16	11	¥	
Surr. Rec.:		101 %			e e	"	
MW-4 (R509019-04) Water	Sampled: 18-Sep-15 09:55	Received:	18-Sep-	15 15:00			
Benzene	130	1.0	ug/L	2	22-Sep-15	8260B	
Toluene	33	1.0	ย	н	H	ri .	
Xylenes, total	200	2.0	19	**	h	1f	
Ethylbenzene	70	1.0	17	H	0	11	
-Butanol	ND	10	14	14	ŧI	11	
Methyl tert-Butyl Ether	ND	1.0		н	Œ	tł	
Di-Isopropyl Ether	ND	1.0	10	II	n	II.	
Ethyl tert-Butyl Ether	ND	1.0	v	II.	μ	u	
tert-Amyl Methyl Ether	ND	1.0	Ŋ	Œ	Ú	н	
1,2-Dichloroethane	ND	1.0	**	9	ŧi	ţı .	
1,2-Dibromoethane (EDB)	ND	1.0	e	10	11	31	

Surr. Rec.:

82 %

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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.: R509019

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Note
MW-5 (R509019-05) Water	Sampled: 18-Sep-15 10:31	Received:	18-Sep-	15 15:00			
Benzene	290	5.0	ug/L	10	22-Sep-15	8260B	
Toluene	23	5.0	a)	II	n	It	
Xylenes, total	270	10	11	p	li .	n	
Ethylbenzene	140	5.0	n	D	α	13	
t-Butanol	ND	50	H	8	41	10	
Methyl tert-Butyl Ether	15	5.0	n	19	n	4	
Di-Isopropyl Ether	ND	5.0	น	U	ti	11	
Ethyl tert-Butyl Ether	ND	5.0	•	н	ft	19	
tert-Amyl Methyl Ether	ND	5.0	ч	н	ŧ	ir .	
1.2-Dichloroethane	ND	5.0	Ħ	и	17	14	
1,2-Dibromoethane (EDB)	ND	5.0	Ħ	II	ti	lf	
Surr. Rec.:		100 %	····		o	#	
MW-6 (R509019-06) Water	Sampled: 18-Sep-15 10:53	Received:	18-Sep-	15 15:00			
Benzene	430	2.5	ug/L	5	23-Sep-15	8260B	
Toluene	24	2.5	it	ıt	71	II .	
Xylenes, total	1.10	5.0	u	"	#I	U	
Ethylbenzene	120	2.5	If	30	ļt	Ð	
t-Butanol	ND	25	R	II.	İŧ	et	
Methyl tert-Butyl Ether	9.6	2.5	19	В	ц	tt	
Di-Isopropyl Ether	ND	2.5	B	31	11	11	
Ethyl tert-Butyl Ether	ND	2.5	**	O .	u		
tert-Amyl Methyl Ether	. ND	2.5	tı	н	11	Р	
1.2-Dichloroethane	ND	2.5	ч	rt .	u	II .	
1,2-Dibromoethane (EDB)	ND	2.5	41	4	O O	h	
		0.9.04			,,	#	

Surr. Rec.:

98 %

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Environmental Compliance Group, LLC

95382

Project Number: GHA.19009

270 Vintage Drive Turlock, CA

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis

Work Order No.: R509019

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Note
EW-1 (R509019-07) Water	Sampled: 18-Sep-15 11:30	Received:	18-Sep-1	5 15:00			
Benzene	370	2.5	ug/L	5	23-Sep-15	8260B	
Toluene	5.5	2.5	l#	41	¥i	Ħ	
Xylenes, total	210	5.0	**	19	41	n	
Ethylbenzene	190	2.5	и	19	41	U	
t-Butanol	ND	25	10	17	lt	tr.	
Methyl tert-Butyl Ether	100	2.5	#	W	И	U	
Di-Isopropyl Ether	ND	2.5	11	t†	ut	n	
Ethyl tert-Butyl Ether	ND	2.5	#	37	u	н	
tert-Amyl Methyl Ether	ND	2.5	#	11	ft .	н	
1,2-Dichloroethane	ND	2.5	19	ч	18	ы	
1,2-Dibromoethane (EDB)	ND	2.5	11	u	R	n	
Surr. Rec.:		103 %			#	Ħ	
EW-2 (R509019-08) Water	Sampled: 18-Sep-15 11:35	Received:	18-Sep-1	5 15:00			
Benzene	1400	10	ug/L	20	23-Sep-15	8260B	
Toluene	2400	10	н	**	. 11	н	
Xylenes, total	3400	20	10	12	II.	h	
Ethylbenzene	520	10	Iŧ	И	ir .	t)	
t-Butanol	ND	100	42	n	li,	н	
Methyl tert-Butyl Ether	50	10	βŧ	n	u	H	
Di-Isopropyl Ether	ND	10	11	l4	. "	**	
Ethyl tert-Butyl Ether	ND	10	D	B	n	"	
tert-Amyl Methyl Ether	ND	10	n	11	u	rt	
1,2-Dichloroethane	ND	10	п	11	Ħ	tt	
1,2-Dibromoethane (EDB)	ND	10	Ð	17	8	11	
Surr. Rec.:		99 %			n	n	

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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.: R509019

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-3 (R509019-09) Water	Sampled: 18-Sep-15 11:40	Received:	18-Sep-1	5 15:00			
Benzene	340	5.0	ug/L	10	23-Sep-15	8260B	
Toluene	110	5.0	ų	9	\$1	(f	
Xylenes, total	1900	20	11	20	11	Œ	
Ethylbenzene	180	5.0	0	10		et	
t-Butanol	ND	50	a		4	и	
Methyl tert-Butyl Ether	120	5.0	Ħ	Ħ	ıt	ti	
Di-Isopropyl Ether	ND	5.0	H	11	Ú	N .	
Ethyl tert-Butyl Ether	ND	5.0	#	11	11	n	
tert-Amyl Methyl Ether	ИD	5.0	**	11	0	н	
1,2-Dichloroethane	ND	5.0	11	н	u	ti	
1,2-Dibromoethane (EDB)	ND	5.0	11	¥C	O O	et	
Surr. Rec.:		99 %	·····		"	19	
EW-4 (R509019-10) Water	Sampled: 18-Sep-15 11:45	Received:	18-Sep-1	5 15:00			
Benzene	860	5.0	ug/L	10	23-Sep-15	8260B	
Toluene	62	5.0	Ħ	IJ	1)		
Xylenes, total	130	10	Iŧ	ŋ	lr	le	
Ethylbenzene	55	5.0	н	ti .	н	tř	
t-Butanol	420	50	n	n	н	н	
Methyl tert-Butyl Ether	140	5.0	н	p	н	н	
Di-Isopropyl Ether	ND	5.0	н	Ħ	#	H	
Ethyl tert-Butyl Ether	ND	5.0	Ħ	11-	17	σ	
tert-Amyl Methyl Ether	ND	5.0	ŧ	14	19	n	
1,2-Dichloroethane	ND	5.0)*	11	0	¥	
1,2-Dibromoethane (EDB)	ND	5,0)*	11	a	в	

Surr. Rec.:

101 %

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Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA

Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis

Work Order No.: .

R509019

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R500961 - EPA 5030B										
Blank (R500961-BLK1)				Prepared	& Analyzo	d: 09/26/	15			
Surrogate: a,a,a-Trifluorotoluene	46.0	******	ug/L	50	************	92	70-130			
Total Petroleum Hydrocarbons @ Gasoline	ND	50	te							
LCS (R500961-BS1)		- Armsvillen and Versier and Residence Residence		Prepared	& Analyze	:d: 09/26/	15			
Surrogate: a,a,a-Trifluorotoluene	55.5		ug/L	50		111	70-130			
Total Petroleum Hydrocarbons @ Gasoline	1030		Ħ	1000		103	80-120			
LCS Dup (R500961-BSD1)	MARKET B	/A		Prepared	& Analyze	d: 09/26/	15			
Surrogate: a,a,a-Trifluorotoluene	58.5		ug/L	50	*	117	70-130		·	
Total Petroleum Hydrocarbons @ Gasoline	1050		,,	1000		105	80-120	l	20	
Matrix Spike (R500961-MS1)	Sou	ırce: R50901	9-08	Prepared	& Analyzo	d: 09/26/1	15			
Surrogate: a,a,a-Trifluorotoluene	61.0		ug/L	50		122	70-130			
Total Petroleum Hydrocarbons @ Gasoline	159000		н	1000	158000	109	70-130			
Matrix Spike Dup (R500961-MSD1)	Sou	ırce: R50901	9-08	Prepared	& Analyze	d: 09/26/1	15		_	
Surrogate: a,a.a-Trifluorotoluene	61.5		ug/L	50		123	70-130			
Total Petroleum Hydrocarbons @ Gasoline	159000		li	1000	113 000821 000			0.03	20	

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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.: R509019

Volatile Organic Compounds by EPA Method 8260B - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch R500959 - EPA 5030B										
Blank (R500959-BLK1)				Prepared	& Analyze	ed: 09/22/	15			
Surrogate: Fluorobenzene	50.0		ug/L	50		100	70-130			
Benzene	ND	0.5	11							
Toluene	ND	0.5	\$F							
Xylenes, total	ND	1.0	#							
Ethylbenzene	ND	0.5	8t							
t-Butanol	ND	5.0	Ħ							
Methyl tert-Butyl Ether	ND	0.5	11							
Di-Isopropyl Ether	ND	0.5	•							
Ethyl tert-Butyl Ether	ND	0.5	şı							
tert-Amyl Methyl Ether	ND	0.5	‡1							
1,2-Dichloroethane	ND	0.5	41							
1,2-Dibromoethane (EDB)	ND	0.5	91							
LCS (R500959-BS1)			mm	Prepared	& Analyze	ed: 09/22/	15			
Surrogate: Fluorobenzene	51.0		ug/L	50		102	70-130		- Avamy	
Methyl tert-Butyl Ether	26.8		и	25		107	80-120			
LCS Dup (R500959-BSD1)				Prepared	& Analyze	ed: 09/22/	15			
Surrogate: Fluorobenzene	50.0	re reserved and a serve of the served of the	ug/L	50		100	70-130			
Methyl tert-Butyl Ether	27.4		u	25		110	80-120	2	20	
Matrix Spike (R500959-MS1)	So	urce: R50901	9-02	Prepared	& Analyze	ed: 09/22/	15			
Surrogate: Fluorobenzene	48.0		ug/L	50		96	70-130			
1,2-Dibromoethane (EDB)	23.3		ħ	25	MD	93	70-130			
Matrix Spike Dup (R500959-MSD1)	So	urce: R50901	9-02	Prepared	& Analyzo	ed: 09/22/	15			
Surrogate: Fluorobenzene	49.0		ug/L	50		98	70-130			
I,2-Dibromoethane (EDB)	24.3		H	25	ND	97	70-130	4	20	·
Batch R500960 - EPA 5030B	propriessor section to the section of the section o			page and the state of the state of the						
Blank (R500960-BLK1)				Prepared	& Analyze	ed: 09/23/	15			
Surrogate: Fluorobenzene	50.0		ug/L	50	an ar ar manan tanan an talama wel	100	70-130			
•	ND	0.5	11							
Benzene	IND.	0.0								

Approved By Wayne E Scott



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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.: R509019

Volatile Organic Compounds by EPA Method 8260B - Quality Control

California Agriculture & Environmental Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R500960 - EPA 5030B										
Blank (R500960-BLK1)				Prepared	& Analyze	d: 09/23/	15			
Xylenes, total	ND	1.0	ug/L							
Ethylbenzene	ND	0.5	**							
t-Butanol	ND	5.0	er .							
Methyl tert-Butyl Ether	ND	0.5	Ħ							
Di-Isopropyl Ether	ND	0.5	U							
Ethyl tert-Butyl Ether	ND	0.5	o							
tert-Amyl Methyl Ether	ND	0.5	1e							
1,2-Dichloroethane	ND	0.5	91							
1,2-Dibromoethane (EDB)	ND	0.5	Ħ							
LCS (R500960-BS1)	•			Prepared a	& Analyze	d: 09/23/1	15			
Surrogate: Fluorobenzene	46.5		ug/L	50		93	70-130			
Toluene	23.9		17	25		96	80-120			
LCS Dup (R500960-BSD1)	10.11 d. dela (d. 1.11 d. 1.11			Prepared a	& Analyze	d: 09/23/1	15			
Surrogate: Fluorobenzene	51.5		ug/L	50		103	70-130		*	
l'oluene	26.3		n	25		105	80-120	9	20	
Matrix Spike (R500960-MS1)	Sou	rce: R50901	9-06	Prepared &	& Analyze	d: 09/23/1	15			
Surrogate: Fluorobenzene	52.0		ug/L	50		104	70-130			
,2-Dichloroethane	28.8		,,	25	ND	115	70-130			
Matrix Spike Dup (R500960-MSD1)	Sou	rce: R50901	9-06	Prepared a	& Analyze	d: 09/23/1	15			
Surrogate: Fluorobenzene	50.5		ug/L	50	**************************************	101	70-130			
,2-Dichloroethane	28.2		ж	25	ND	113	70-130	2	20	

Approved By

Wayne I Swits



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.: R509019

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

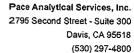
dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

Wayne & Awas Approved By





August 28, 2015

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

RE: Project: Shore Acres Gas

Pace Project No.: 1252342

Dear Drew Van Allen:

Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott M Forbes

Scott Forhes

scott.forbes@pacelabs.com

Project Manager

Enclosures







CERTIFICATIONS

Project:

Shore Acres Gas

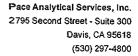
Pace Project No.:

1252342

Davis Cerification IDs

2795 Second Street Suite 300 Davis, CA 95618 North Dakota Certification #: R-214 Oregon Certification #: CA300002

Washington Certification #: C926-14a California Certification #: 08263CA





SAMPLE SUMMARY

Project:

Shore Acres Gas

Pace Project No.: 1252342

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1252342001	Effluent	Air	08/25/15 12:00	08/26/15 09:40
1252342002	Influent	Air	08/25/15 12:05	08/26/15 09:40





SAMPLE ANALYTE COUNT

Project:

Shore Acres Gas

Pace Project No.: 1252342

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1252342001	Effluent	EPA 8260B	JCP	9	PASI-DAV
1252342002	Influent	EPA 8260B	JCP	9	PASI-DAV



ANALYTICAL RESULTS

Project:

Shore Acres Gas

Pace Project No.: 1252342

Date: 08/28/2015 04:15 PM

Sample: Effluent	Lab ID: 1	252342001	Collected: 08/25/	15 12:00	Received:	08/26/15 09:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B MSV AIR	Analytical M	lethod: EPA 82	260B					
Benzene	ND	ppbv	50.0	1		08/27/15 14:1	8 71-43-2	
Ethylbenzene	ND	ppbv	50.0	1		08/27/15 14:1	8 100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		08/27/15 14:1		
Toluene	ND	ppbv	50.0	1		08/27/15 14:1		
TPH as Gas	ND	ppbv	5000	1		08/27/15 14:1		
Xylene (Total)	ND	ppbv	100	1		08/27/15 14:1	=	
Surrogates		pp.	100	•		00/2//10 14:1	0 1000-20-1	
Toluene-d8 (S)	104	%.	70-130	1		08/27/15 14:1	8 2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1		08/27/15 14:1	8 17060-07-0	
4 Danmaguanahaana (0)	110	•	E0 400	4				
4-Bromofluorobenzene (S)	112	%.	70-130	1		08/27/15 14:1	8 460-00-4	
Sample: Influent	·	%. 252342002		1 5 12:05	Received:		8 460-00-4 Matrix: Air	
	·	·····			Received:		****	Qual
Sample: Influent Parameters	Lab ID: 1	252342002	Collected: 08/25/1	5 12:05		08/26/15 09:40	Matrix: Air	Qual
Sample: Influent Parameters 8260B MSV AIR	Lab ID: 1	252342002 Units	Collected: 08/25/1	5 12:05		08/26/15 09:40	Matrix: Air CAS No.	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene	Lab ID: 1: Results Analytical M	252342002 Units ethod: EPA 82	Collected: 08/25/1 Report Limit	5 12:05 DF		08/26/15 09:40 Analyzed	Matrix: Air CAS No. 3 71-43-2	Qual
Sample: Influent	Lab ID: 1: Results Analytical M	252342002 Units ethod: EPA 82 ppbv	Collected: 08/25/1 Report Limit	5 12:05 DF 5		08/26/15 09:40 Analyzed 08/27/15 13:5: 08/27/15 13:5:	Matrix: Air CAS No. 3 71-43-2 3 100-41-4	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Wethyl-tert-butyl ether	Lab ID: 1: Results Analytical M 2670 2490	252342002 Units ethod: EPA 82 ppbv ppbv	Collected: 08/25/1 Report Limit	5 12:05 DF 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5: 08/27/15 13:5: 08/27/15 13:5:	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Methyl-tert-butyl ether Foluene	Lab ID: 1 Results Analytical M 2670 2490 ND	252342002 Units ethod: EPA 82 ppbv ppbv ppbv	Collected: 08/25/1 Report Limit 260B 250 250 500	5 12:05 DF 5 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4 3 108-88-3	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Methyl-tert-butyl ether Toluene TPH as Gas	Lab ID: 1: Results Analytical M 2670 2490 ND 6440	252342002 Units ethod: EPA 82 ppbv ppbv ppbv ppbv	Collected: 08/25/1 Report Limit 260B 250 250 500 250	5 12:05 DF 5 5 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4 3 108-88-3 3	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Wethyl-tert-butyl ether Toluene TPH as Gas Kylene (Total)	Lab ID: 1: Results Analytical M 2670 2490 ND 6440 344000	252342002 Units ethod: EPA 82 ppbv ppbv ppbv ppbv ppbv	Collected: 08/25/1 Report Limit 260B 250 250 500 250 25000	5 12:05 DF 5 5 5 5 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4 3 108-88-3 3	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Methyl-tert-butyl ether Toluene TPH as Gas Xylene (Total) Surrogates Toluene-d8 (S)	Lab ID: 1: Results Analytical M 2670 2490 ND 6440 344000	252342002 Units ethod: EPA 82 ppbv ppbv ppbv ppbv ppbv	Collected: 08/25/1 Report Limit 260B 250 250 500 250 25000	5 12:05 DF 5 5 5 5 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4 3 108-88-3 3 1330-20-7	Qual
Sample: Influent Parameters 8260B MSV AIR Benzene Ethylbenzene Methyl-tert-butyl ether Toluene TPH as Gas Xylene (Total) Surrogates	Lab ID: 1: Results Analytical M 2670 2490 ND 6440 344000 18900	Units Tethod: EPA 82 ppbv ppbv ppbv ppbv ppbv ppbv ppbv pp	Collected: 08/25/1 Report Limit 250 250 250 500 2500 25000 500	5 12:05 DF 5 5 5 5 5 5 5 5		08/26/15 09:40 Analyzed 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5 08/27/15 13:5	Matrix: Air CAS No. 3 71-43-2 3 100-41-4 3 1634-04-4 3 108-88-3 3 1330-20-7 3 2037-26-5	Qual



QUALITY CONTROL DATA

Project:

Shore Acres Gas

Pace Project No.:

1252342

QC Batch:

DAVM/2066

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV AIR

Associated Lab Samples:

1252342001, 1252342002

METHOD BLANK: 241553

Date: 08/28/2015 04:15 PM

Associated Lab Samples: 1252342001, 1252342002

Matrix: Air

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
			LITTING	Allalyzeu	Qualifiers
Benzene	ppbv	ND	50.0	08/27/15 09:41	
Ethylbenzene	ppbv	ND	50.0	08/27/15 09:41	
Methyl-tert-butyl ether	ppbv	ND	100	08/27/15 09:41	
Toluene	ppbv	ND	50.0	08/27/15 09:41	
TPH as Gas	ppbv	ND	5000	08/27/15 09:41	
Xylene (Total)	ppbv	ND	100	08/27/15 09:41	
1,2-Dichloroethane-d4 (S)	%.	100	70-130	08/27/15 09:41	
4-Bromofluorobenzene (S)	%.	104	70-130	08/27/15 09:41	
Toluene-d8 (S)	%.	105	70-130	08/27/15 09:41	

ABORATORY CONTROL SAMPLE	241554					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
nzene	ppbv	474	492	104	70-130	******
ylbenzene	ppbv	530	587	111	70-130	
hyl-tert-butyl ether	ppbv	436	471	108	70-130	
ne	ppbv	515	547	106	70-130	
e (Total)	ppbv	806	903	112	70-130	
chloroethane-d4 (S)	%.			99	70-130	
omofluorobenzene (S)	%.			98	70-130	
ene-d8 (S)	%.			99	70-130	

SAMPLE DUPLICATE: 241555						
Parameter	Units	1252207001 Result	Dup Result	RPD	Max RPD	0
		- IVESUIT	Kesuit	KPD		Qualifiers
Benzene	ppbv	646	700	8	25	
Ethylbenzene	ppbv	1430	1590	11	25	
Methyl-tert-butyl ether	ppbv	ND	ND		25	
Toluene	ppbv	7160	7880	10	25	
TPH as Gas	ppbv	112000	90500	22	25	
Xylene (Total)	ppbv	7670	8730	13	25	
1,2-Dichloroethane-d4 (S)	%.	99	101	134	_*	
4-Bromofluorobenzene (S)	%.	107	96	128		
Toluene-d8 (S)	%.	104	101	132		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc. 2795 Second Street - Suite 300 Davis, CA 95618 (530) 297-4800

QUALIFIERS

Project:

Shore Acres Gas

Pace Project No.:

1252342

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 08/28/2015 04:15 PM

PASI-DAV Pace Analytical Services - Davis





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Shore Acres Gas

Pace Project No.: 1252342

Date: 08/28/2015 04:15 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1252342001 1252342002	Effluent Influent	EPA 8260B EPA 8260B	DAVM/2066 DAVM/2066		



2795 2nd Street, Suite 300 Davis, CA 95618 Lab: 530.297,4800 Fax: 530.297,4802

SRG#/Lab No. 1252342

Page 1 of 1

Project Contact (Hardcopy or PDF	To):		Ca	alifor	nia l	EDF	Rer	ort?		Γ.	/ Yes		一	No	—																					
Drew Van Allen												•	i	1140		ı				Ch	ain-	of-	Cus	stoc	l yb	₹ec	orc	d ar	nd /	4na	ılys	is F	₹eqι	uest		
Company / Address:			Sa	mpli	ing (Com	pany	/ Log	Coc	le:								-										uest							LTA	71
270 Vintage Drive, Turlock, C. Phone Number:	A 95382			CGT													Т	T	T	1	Π			7 11	I			EASE		CLE	1	т—	—т		TA	
209.664.1035				obal)600	ID:)174	1667	7				• • • • • • • • • • • • • • • • • • • •				****	7			<u> </u>										HOD						12 h	
Fax Number: 209.664.1040			EL	OF D	elive	erabl	e To ail c	(Em	ail A	dáre	ess):					1			A 82605	(B09)								ଚ								
Project #: P.O. #: GHA.19009			Bil	l to:	LLC			×111								1			BA) (EP.	EPA 82	8260B			Water)				7/601(24 h	n g
Project Name: Shore Acres Gas			Dr	ew V	er Pr /an / er Si	Allen)	9:								8260B)			TBE, TAME, T	CHO MeOH)	2 EDB) (EPA	\ 8260B)	(EPA 8260B)	4.2 Drinking	M)	15M)	7 / 6010)	b,Zn) (EPA 200	0 / 7471)	010)		y EPA 8260E			☐ 48h	For Lab Use Only
Project Address:	Samp	dina	+-	_	Conta	nin n			Ο		ative			11.		₩		۵	Ä,	Ĕ	-	EP/	List	25	015	8	200.	g.	747	00/		ig ijj				1 "
403 East 12th Street Oakland, CA	Jam		γογ			ante			Fie	serv	auve			Mat	TIX	MTBE @ 0.5 ppb (EPA	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 82609)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatife 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)	W.E.T. Lead (STLC)	TPHg, BTEX, and MTBE by EPA 8260B			72hi	
Sample Designation	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	Ş	NA No.	None			Water	Soil :	Air	MTBE @	BTEX (E	TPH Gas	5 Oxygena	7 Oxyge	Lead Sca	Volatile P	Volatile (Volatile	TPH as [TPHash	CAM 17.	5 Waste O	Mercury (Total Lea	WE.T. Le	тРН9, ВТ			1 wk	:
Effluent	8/25/2015	1200					х								х	Г																x	\dashv		†	001
Influent	8/25/2015	1205					x	\top	T	T		\exists	7	_	х	1													\dashv	1	\dashv		\dashv	+	 	on
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Page 9																		Ter	np °	c	ln	itials	+		Dat	e	-			Time	e	Th	nerm.	ID#	 	t Present / No
Distribution: White - Lab; Pink - Originator				-						-				***************************************				·																		

Pace Analytical*

Document Name: Sample Condition Upon Receipt Form Document Revised: 25Feb2015

Page 1 of 1 Issuing Authority: Pace Davis, CA Quality Office Document No.: F-DAV-C-002-rev.02

Sample Condition Upon Receipt Client Name: ECG LLC		ı	Project #:	₩0#:1252342
Courier:	USPS Other:		ent	1252342
Custody Seal on Cooler/Box Present? Yes No)	Seals Intac	ct? [Ye:	S No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags	None	<u> </u>	ther:	Temp Blank? ☐Yes ☐Ño
Thermom. Used: DA1434 DA2285 Cooler Temp Read(*C): Cooler Temp Correction Factor	rected(*C):	e: □Wet	_	Dry Ice None Samples on ice, cooling process has begun Biological Tissue Frozen? Yes No No Initials of Person Examining Contents:
Chain of Custody Present?	Ø Yes		□ N/A	1.
Chain of Custody Filled Out?	✓Yes	□No	□N/A	2.
Chain of Custody Relinquished?	ZYes	□No	□N/A	3.
Sampler Name and/or Signature on COC?	Yes	□No	□N/A	4.
Samples Arrived within Hold Time?	Z Yes	□No	□n/a	5.
Short Hold Time Analysis (<72 hr)?	ØYes	□No	□N/A	6.
Rush Turn Around Time Requested?	□Yes	Z No	□n/a	7.
Sufficient Volume?	✓Yes	□No	□N/A	8.
Correct Containers Used?	✓Yes	□No	□N/A	9,
-Pace Containers Used?	ØYes	□No	□N/A) s.
Containers Intact?	Ves	□N¢	□N/A	10.
Filtered Volume Received for Dissolved Tests?	Yes	□No	ZN/A	
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: AR	ØYes	□No	□n/a	Note if sediment is visible in the dissolved container.
All containers needing acid/base preservation have been	□Yes	<i>5</i> 7	St. 11	
checked? All containers needing preservation are found to be in	∐res	□No	Øn/a	13. ☐HNO₃ ☐H₂SO₄ ☐N≅OH ☐HCI
compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	□Yes	□No	Øn/a	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	ØYes	□No		Initial when Lot # of added completed: preservative:
Headspace in VOA Vials (>6mm)?	□Yes	□No	ØN/A	14.
Trip 8lank Present?	□Yes	□No	ØŅ/A	15.
Trip Blank Custody Seals Present?	□Yes	□No	Øn/a	
Pace Trip Blank Lot # (if purchased):				
ENT NOTIFICATION/RESOLUTION				Field Data Danniard City City
Person Contacted:			Date/T	Field Data Required? Yes No
Comments/Resolution:				
oject Manager Review:	pliance sam	ples, a copy	of this form	Date: 8/27/15 will be sent to the North Carolina DEHNR Certification Office (i.e. ou

Page 10 of 10





October 06, 2015

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

RE: Project: Shore Acres Gas

Pace Project No.: 1254421

Dear Drew Van Allen:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott M Forbes

Scott Forkes

scott.forbes@pacelabs.com

Project Manager

Enclosures







CERTIFICATIONS

Project:

Shore Acres Gas

Pace Project No.:

1254421

Davis Cerification IDs

2795 Second Street Suite 300 Davis, CA 95618 North Dakota Certification #: R-214 Oregon Certification #: CA300002

Washington Certification #: C926-14a California Certification #: 08263CA





SAMPLE SUMMARY

Project:

Shore Acres Gas

Pace Project No.: 1254421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1254421001	Influent	Air	09/29/15 12:00	09/30/15 09:58





SAMPLE ANALYTE COUNT

Project:

Shore Acres Gas

Pace Project No.: 1254421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1254421001	Influent	EPA 8260B	JCP	9	PASI-DAV



ANALYTICAL RESULTS

Project:

Shore Acres Gas

Pace Project No.: 1254421

Date: 10/06/2015 03:53 PM

Sample: Influent	Lab iD: 125	4421001	Collected: 09/29/1	5 12:00	Received: 09	3/30/15 09:58	Matrix: Air	******
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV AIR	Analytical Meth	nod: EPA 82	260B					
Benzene	1420	ppbv	50.0	1		09/30/15 17:58	71-43-2	
Ethylbenzene	553	ppbv	50.0	1		09/30/15 17:58	100-41-4	
Methyl-tert-butyl ether	ND	ppbv	100	1		09/30/15 17:58	1634-04-4	
Toluene	860	ppbv	50.0	1		09/30/15 17:58	108-88-3	
TPH as Gas	91200	ppbv	5000	1		09/30/15 17:58		
Xylene (Total)	4860	ppbv	100	1		09/30/15 17:58	1330-20-7	
Surrogates		-,						
Toluene-d8 (S)	96	%.	70-130	1		09/30/15 17:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1		09/30/15 17:58	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	70-130	1		09/30/15 17:58	460-00-4	



QUALITY CONTROL DATA

Project:

Shore Acres Gas

Pace Project No.:

1254421

QC Batch:

DAVM/2249

DAVIVINZ

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

Matrix: Air

8260 MSV AIR

Associated Lab Samples: 1254421001

METHOD BLANK: 252986

Associated Lab Samples: 1254421001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Benzene	ppbv	ND	50.0	09/30/15 12:34	
Ethylbenzene	ppbv	ND	50.0	09/30/15 12:34	
Methyl-tert-butyl ether	ppbv	ND	100	09/30/15 12:34	
Toluene	ppbv	ND	50.0	09/30/15 12:34	
TPH as Gas	ppbv	ND	5000	09/30/15 12:34	
Xylene (Total)	ppbv	ND	100	09/30/15 12:34	
1,2-Dichloroethane-d4 (S)	%.	99	70-130	09/30/15 12:34	
4-Bromofluorobenzene (S)	%.	110	70-130	09/30/15 12:34	
Toluene-d8 (S)	%.	101	70-130	09/30/15 12:34	

LABORATORY CONTROL SAMPL	E: 252987					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppbv	474	495	105	70-130	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ethylbenzene	ppbv	530	581	110	70-130	
Methyl-tert-butyl ether	ppbv	436	457	105	70-130	
oluene	ppbv	515	544	106	70-130	
(ylene (Total)	ppbv	806	899	112	70-130	
,2-Dichloroethane-d4 (S)	%.			100	70-130	
1-Bromofluorobenzene (S)	%.			102	70-130	
Toluene-d8 (S)	%.			98	70-130	

SAMPLE DUPLICATE: 252988						
		1254422001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Benzene	ppbv	3470	3600	4	25	
Ethylbenzene	ppbv	15600	15400	1	25	
Methyl-tert-butyl ether	ppbv	ND	ND		25	
Toluene	ppbv	30300	31200	3	25	
TPH as Gas	ppbv	1140000	1120000	2	25	
Xylene (Total)	ppbv	65200	65300	0	25	
1,2-Dichloroethane-d4 (S)	%.	109	103	62		
4-Bromofluorobenzene (S)	%.	99	104	71		
Toluene-d8 (S)	%.	96	99	70		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS





QUALIFIERS

Project:

Shore Acres Gas

Pace Project No.:

1254421

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 10/06/2015 03:53 PM

PASI-DAV Pace Analytical Services - Davis





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Shore Acres Gas

Pace Project No.:

1254421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1254421001	Influent	EPA 8260B	DAVM/2249		



2795 2nd Street, Suite 300 Davis, CA 95618 Lab: 530.297.4800 Fax: 530.297.4802

SRG#/Lab No.

Project Contact (Hardcopy or PDF	Tax. 550	.237.400		litor	nia f	ne.	Dar	ort?			1			N 1.		1																				
Drew Van Allen	10).		٦	ziii Oi	illa c	בטר	r e i	OIL		1] Yes			No						Cha	ain-	of-(Cus	stoc	y F	Rec	orc	l an	id A	۱na	lys	is R	Requ	ıest		
Company / Address:			Sa	mpli	ing C	Com	pany	/ Log (Code):	**********					╁												uest			-				TAT	T
270 Vintage Drive, Turlock, CA	95382			CGT				•								-	T								2., 0			EASE		OLE	1				1	1 1
Phone Number:				obal			***********									1										i	' -		HOD					-		
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209.664.1040			ec	g.us	st@gmail.com							PA8	260	☆							õ															
Project #: P.O. #:				l to:												1) (E)	λ8	8			ater				8							24 hr	Ę
GHA.19009					LLC														ĮĘ.	Ē	8 A'		6	8 ≥				000				8				For Lab Use Only
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Shore Acres Gas					an /											<u>ا</u> ٣			1,1	Me	8	ğ	لا	۵		\$	60	5	747	_		ă			48hr	۳
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Project Address: 403 East 12th Street	Samp	ing	╀	$\overline{}$	Cont	aine	r T		Pre:	serv	ative	-	т	Matri:	<u>×</u>	(EP	<u>₩</u>	8	ă	χ	5	SE	3	E P	× 8	(EP	Ą	Ö,	11	00	ឡ	E				
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			Ξ	Sleeve	Poly	Glass	gla	la	HNO3	None			Water	<u>.</u> ا ج		MTBE @ 0.5 ppb (EPA	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	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)	E.T.	TPHg, BTEX, and MTBE by EPA 8260B			1 wk	
Sample Designation	Date	Time	4	ङ	ď	ᅙ	۴	<u> Ĭ</u>	포	ž		_	<u> </u>	Soi F	<u> </u>	Σ	10	F	9 C	7.0	٦	<u>\$</u>	8	3	₽	₽	ਹੈ	2.0	Σ	70	₹.	<u> </u>			<u> </u>	
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Page 9																							_					ļ							 	/ No
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Distribution: White - Lab; Pink - Originator Reg 061708



Document Name: Sample Condition Upon Receipt Form

Document No.: F-DAV-C-002-rev.02 Document Revised: 25Feb 2015
Page 1 of 1
Issuing Authority:
Pace Davis, CA Quality Office

Upon Receipt ECG	·-			ALU	# 1		744			
Courier: Fed Ex Dups	□USPS □Other:	∏Clie	ent —	 1254	421 421					
Custody Seal on Cooler/Box Present? Yes No	s	eals Intac	t? □Yes	s []No	Optio	onal:	Proj. Du	e Date:	Proj	. Name
Packing Material: Bubble Wrap Bubble Bags	None	∐0tl	her:			T	emp Bla	ınk?	Yes	Пи
hermom. Used: DA1434 Cooler Temp Read(*C): MA Cooler Temp Correction Factor:	Type of ice rected(*C):_		□Blue □ Date aı	В	□None iological T of Person	issue Fr Examin	ozen? ing Cont	e, caoling Yes ents: C	process	has beg
Chain of Custody Present?	⊠Yes	□No	□ N/A	T _{1.}	,,, <u></u>	Co	mments:			
Chain of Custody Filled Out?	Žives	□No	□N/A	2.						
Chain of Custody Relinquished?	Yes	□No	□n/A	3.	· · · · · · · · · · · · · · · · · · ·					
Sampler Name and/or Signature on COC?	ï⊠Yes	□No	□N/A	4.					······································	
Samples Arrived within Hold Time?	Xives	□No	□N/A	5.		·				·
Short Hold Time Analysis (<72 hr)?	¥ Z)Yes	□No	□N/A	6.						
Rush Turn Around Time Requested?	□Yes	No	□n/a	7.			***********	·····		
Sufficient Volume?	X	□No	□n/a	8.		*				
Correct Containers Used?	Yes	□No	□N/A	9.						+
-Pace Containers Used?	∭ yes	□No	□N/A	ĺ						
Containers Intact?	⊠yes	□No	□N/A	10.					~~~	
Filtered Volume Received for Dissolved Tests?	□Yes	□No	⊠ N/A	11. No	te if sedim	ent is vi	sible in t	he dissort	ved cont	ainer
Sample Labels March COC? -Includes Date/Time/ID/Analysis Matrix:	⊠Yes	No	□n/a	12.					res com	
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCK-2; NaOH >9 Sulfide, NaOH>12 Cyanide)	□Yes □Yes	□No	⊠n/a ⊠n/a	13. Sample #	∏нио₃	Пн	2SO4	Ови	н	Пнсі
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	□Yes	□No		Initial wh	****			of added		
Headspace in VOA Vials (>6mm)?	□Yes	□No	XIN/A	14.						
Trip Blank Present?	□Yes	⊠No	□N/A	15.		**				***************************************
Trip Blank Custody Seals Present?	□Yes	□No	XN/A							
Pace Trip Blank Lot # (if purchased):										
ENT NOTIFICATION/RESOLUTION					Fiel	d Data I	Require	d? 🔲 y	ar Di	NA.
Person Contacted:			Date/Ti	me:					الــا س	••
Comments/Resolution:										
yect Manager Review: Whenever there is a discrepancy affecting North Carolina compine of the property of the				Date:	10/	1/10	~ *>			

GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Shore PROJECT MANAGER: MSS

Shore Acres

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
MW-1	0955	19.92	12,23				
MW-2	0853	20,00	12.45				
MW-3	6857	17.81	13,13				
MW-4	0851	18.75					
MW-5			NW				
MW-6	0859	19.97	11,61				
EW-1	0207		13,25			<u></u>	
EW-2	0105		15.10				instanta
EW-3	୍ପାଉ		1000	99			, water of the
EW-4	ଔଧା		15,45				3

FIELD TECHNICIAN:	DVA	١	
DATE:	9	ाष्ठ	13

PROJECT N	ANAGER:	Shore Acres MSS			PROJECT NU TASK NUMBE		GHA.19009
SITE ADDRE	ESS:	403 East 12th	Street, Oakla	nd, Ca			
	WELL ID:	MW	1		TYPE	OF WELL:	Monitoring
WATER COI	Dep	Total Depth: _ oth to Water: _ umn Length: _	19(fe s t)2 17.73 7.69		WELL DIAME 2-inch: 4-inch: 6-inch:	✓	- - -
PURGE VOI	_UME CALCU Water Columi	LATION: n Length x Mu	ıltiplier x No. \	/olumes = F	Purge Volume		
Wat	子ら7 ter Column Ler	x _ngth	O.17 Multiplier	X	No. Volumes	more make	Purge Volume
MULTIPLIEI	R DATA: Multiplier for \$	Schedule 40 F 2-inch: 4-inch: 6-inch:	PVC; Gallons/l 0.17 0.65 1.5	Linear Foot	Based on Cas	ing Diame	eter:
PURGE ME		5 "		SAMPLE	METHOD:	abla Baile	
	Disp	osable Bailer	V	•	Dishos	able Baile Pump	
	Suhmi	ersible Pump		•		Øthrei	
	Cabini	Other					
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1115	1.5	7.29	20,9	752	e		
1119	2.5	7,2	20,4	7-37	***		
1125	પ	7,4	2 ² /3	741	23 Ø	<u> </u>	Sunt
mr>					-		
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FIELD TECHNICIAN:	MUX_	<u> </u>
DATE:	9/18	15

PROJECT N PROJECT M SITE ADDRE	ANAGER:	Shore Acres MSS 403 East 12th	n Street, Oakla		PROJECT NUTASK NUMB	-	GHA.19009	
	WELL ID:	MW-	-Z		TYPE	OF WELL:	Monitoring	
			2(feet) 72.45 7.55	7	WELL DIAMETER: 2-inch: 4-inch: 6-inch:			
	.UME CALCU Water Colum		ultiplier x No. \	√olumes = I	Purge Volume			
	7.55 er Column Le	-	©.17 Multiplier				Purge Volume	
	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							
PURGE MET	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I	METHOD: Dispos	able Bailer Pump: Other:		
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS	
(00ව්	ŀΣ	7.39	2120	७८५				
1011	37	7.38	20.7	698				
1014	9	7.38	₹,.05	701			ZA. 62	
1010							saul	

FIELD TECHNICIAN:	OWY		•
DATE:	9 6	11.3	

PROJECT IN PROJECT IN SITE ADDR	MANAGER:	Shore Acres MSS 403 East 12	th Street, Oakl	and, Ca	PROJECT NU TASK NUMB		GHA.19009
	WELL ID:	Mu	u-3	_	TYPE	OF WELL:	Monitoring
WATER CO	De	: I Total Depth: pth to Water: Iumn Length:	13.13	- -	WELL DIAME 2-inch: 4-inch: 6-inch:		- - -
PURGE VO	LUME CALCU						
	Water Colum (, CO ter Column Le	×	Multiplier x No.		Purge Volume 3 No. Volumes	berg sens	Z_ 5 Purge Volume
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							
PURGE ME				SAMPLE			
	Disp	osable Bailer PVC Bailer		-	Dispos	able Bailer Pump:	
	Subm	ersible Pump		-	>	Other:	
		Other		-			
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1600	1.0	7.31	21.2	801 808			
1106	Ζ.	7.73	20,0	180A			DRY
100							
				<u> </u>			
				 			

FIELD TECHNICIAN:	Dus			
DATE:	9/20/1)			

PROJECT NAME: Shore Acres PROJECT MANAGER: MSS SITE ADDRESS: 403 East 12th Street, Oakland, Ca					PROJECT I		GHA.19009	
	WELL ID	<u>- MW -</u> :	-4	_	TYPE	OF WELL	: Monitoring	
	De Water Co LUME CALCU	l Total Depth: epth to Water: elumn Length:			 			
Wa	ter Column Le	_ X	Multiplier		No. Volume	=	Purge Volume	
MULTIPLIE	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							
PURGE METHOD: Disposable Bailer PVC Bailer Submersible Pump Other SAMPLE METHOD: Disposable Bailer Pump: Other								
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l	ORP (mV)	COMMENTS	
<i>०१५३</i>	1,25	T-49	22.7	941				
095 <u>0</u> 095 <u>3</u> 095 5	3.5	7.45 7.39	U.S 22,0	939				
092-5	_3.1	7,39	22,0	930				
0433						-	Sample	
<u></u>								
**	W.L.							
						-		
·	· · · · · · · · · · · · · · · · · · ·							

FIELD TECHNICIAN:	Dont	
DATE:	9	(1)

PROJECT I PROJECT I SITE ADDR	MANAGER:	Shore Acres MSS 403 East 12	th Street, Oak	- land, Ca	PROJECT NI TASK NUMB		GHA.19009
	WELL ID:	MM	-5	ana.	TYPE	OF WELL:	Monitoring
	De	(feet)	_	WELL DIAMI 2-inch: 4-inch: 6-inch:	ETER:	- - -	
	Water Colum	n Length x M	ultiplier x No.	Volumes = I	Purge Volume		44
Wa	ter Column Le	_ x ngth	Multiplier	_ X	No. Volumes	=	Purge Volume
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 PURGE METHOD: SAMPLE METHOD:							
	·	osable Bailer PVC Bailer ersible Pump Other		• • •	ыроз	Pump: Other:	
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1031 1058	2001	7.33 7.51	21.9	1170			DRY

FIELD TECHNICIAN:

DATE:

PROJECT NAME: PROJECT MANAG SITE ADDRESS:		es 2th Street, Oak	land, Ca	PROJECT N TASK NUME		GHA.19009		
WE	ELL ID:	V-6	÷	TYPE	OF WELL:	Monitoring		
WATER COLUMN Water	- - -							
	mn Length x	Multiplier	- ×	No. Volumes	em ••••	Y.Zy Purge Volume		
	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							
PURGE METHOD:	Disposable Baile PVC Baile Submersible Pump Othe	r	SAMPLE - - -		able Bailer Pump: Other:			
TIME PUR		TEMP.	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS		
1044 1.5	スメレ	21.6	642					
1046 3 1051 4.0 1053	7.37	0-15	677					
1051 4.2	7.31	ひハ	677					
1053						saule		
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