

RECEIVED

By Alameda County Environmental Health 10:33 am, Aug 26, 2015

May 18, 2015

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

Subject: Semi-Annual Discharge Report
Permit No. 68508758
403 East 12th Street, Oakland, Alameda County, California
RO #0002931
ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the *Semi-Annual Discharge 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



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

May 18, 2015

Ms. Audrey Comeaux
EBMUD
Environmental Services Division
MS 702
P.O. Box 24055
Oakland, CA 94623

Subject: **Semi-Annual Discharge Report**
 Permit No. 68508758
 403 East 12th Street
 Oakland, CA

Dear Ms. Comeaux:

Environmental Compliance Group, LLC (ECG) is authorized by Rashid Ghafoor to submit this letter documenting the sewer discharge operations for October 1, 2014 through March 31, 2015. This letter is prepared in accordance with the East Bay Municipal Utilities District (EBMUD), *Wastewater Discharge Permit No. 68508758*, issued April 16, 2014.

The groundwater treatment system was started on April 30, 2014. During this reporting period from April 1 to September 30, 2014, the groundwater system discharged approximately 271,372 gallons of treated groundwater to the sewer. For the reporting period the average discharge was 1,681 gallons per day and 1.2 gallons per minute. Groundwater discharge data are shown on Table 1.

A sample of the effluent groundwater discharge was collected on October 28, 2014 and contained no detectable concentrations of petroleum hydrocarbons. Detectable concentrations of inorganics were within permit requirements. Analytical laboratory data sheets are attached.

The groundwater treatment system was shut down on February 18, 2015 and the above ground propane tank that provided supplemental fuel to the remediation equipment was removed from the site due to conflicts with the site tenants and residential neighbors. PG&E is scheduled to install natural gas service to the site by the end of June 2015. Once the natural gas installation has been completed, ECG will provide an updated site plan map and process and flow diagram to EBMUD and restart the remediation equipment.

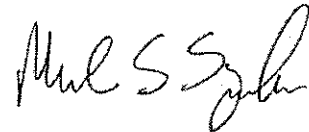
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations

If you have any questions or concerns please contact me with any concerns or questions at 209.664.1035.

Sincerely,
Environmental Compliance Group, LLC



Drew Van Allen
Senior Project Manager



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

Table 1
Groundwater Treatment System Performance Data
 Shore Acres Gas
 403 East 12th Street
 Oakland, California

DATE	TOTAL FLOW (gallons)	AVG. PERIOD FLOW RATE (gallons/min)
04/30/14	189,810	Unit Start Up
05/30/14	322,420	3.07
06/27/14	358,850	0.90
07/30/14	NM	NM
08/29/14	393,900	0.39
09/30/14	463,870	1.52
10/28/14	495,020	0.77
12/01/14	564,925	1.43
12/31/14	696,150	3.04
01/20/15	730,151	1.18
02/18/15	766,392	0.87

302,522 total gallons pumped during current reporting period
1681 average gallons per day during current reporting period
1.2 average gallons per minute during current reporting period

Notes:

Groundwater flow meter was 189,910 when unit was started up
 The system was shut down from July 27 to August 15, 2014 for carbon change out
 The system operated for approximately 120 days between April 1 and September 30, 2014
 The system was shut down on February 18, 2015 for change out of propane for natural gas
 NM - Not measured

argon laboratories

21 November 2014

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 11/05/14 11:15 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

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

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

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

Sincerely,



Hiram Cueto
Lab Manager

Argon Labs

2905 Railroad Ave., Ceres, CA 95307

(209)581-9280 Fax (209)581-9282 Data@argonlabs.com

CHAIN OF CUSTODY

Project No: <i>511A 100209</i> Project Title: <i>Stone River Gas</i> Location: <i>403 E. 12th St. Oakland</i>					Client: <i>ECG</i> Address: Contact: Phone: Fax: Bill To:													
Sampler's Name: <i>Drew Van Allen</i> (print)					Client: <i>ECG</i> Address:													
Sampler's Signature:					COMMENTS													
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> other <input type="checkbox"/> Standard (10 days) <input checked="" type="checkbox"/>					ANALYSIS <i>900 500 24 10/28/14 2007 pH</i>													
Sample ID	Date	Time	# Containers	Matrix														
<i>EM201</i>	<i>10/28/14</i>	<i>11:30</i>	<i>5</i>	<i>Water</i>														
Relinquished By: <i>Drew Van Allen</i>			Date: <i>11/5/14</i> Time: <i>11:15</i>		Received By: <i>[Signature]</i>			Date: <i>11/5/14</i> Time: <i>11:15</i>		SPECIAL INSTRUCTIONS: <i>NO EDF</i>								
Relinquished By:			Date: Time:		Received By:			Date: Time:										
Relinquished By:			Date: Time:		Received By:			Date: Time:										

Argon Laboratories Sample Receipt Checklist

Client Name: Environmental Compliance Group Date & Time Received: 11/05/14 11:15
 Project Name: Shore Acres Gas Client Project Number: GHA.19009
 Received By: HC Matrix: Water Soil Sludge
 Sample Carrier: Client Laboratory Fed Ex UPS Other
 Argon Labs Project Number: P411004

Shipper Container in good condition? N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples received in proper containers? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples received under refrigeration? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples received intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Chain of custody present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sufficient sample volume for requested tests? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Chain of Custody signed by all parties? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples received within holding time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Chain of Custody matches all sample labels? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Do samples contain proper preservative? N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	Do VOA vials contain zero headspace? (None submitted <input type="checkbox"/>) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments:

Action Taken:

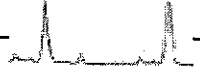
ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments:





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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

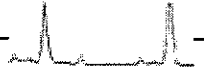
Work Order No.:
P411004

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	P411004-01	Water	10/28/14 11:30	11/05/14 11:15

Approved By

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



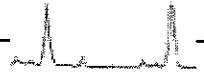
Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382	Project Number: GHA.19009 Project Name: Shore Acres Gas Project Manager: Mike Sgourakis	Work Order No.: P411004
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ANALYSIS REPORT

Analyte	Result	Reporting		Dilution	Analyzed	Method	Notes
		Limit	Units				
Effluent (P411004-01) Water Sampled: 28-Oct-14 11:30 Received: 05-Nov-14 11:15							
pH	7.7	0.1	pH Units	1	05-Nov-14	SM 4500-H+B	

Approved By

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



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

Project Number: GHA.19009
 Project Name: Shore Acres Gas
 Project Manager: Mike Sgourakis

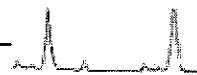
Work Order No.:
 P411004

ICP-MS Metals EPA Method 200.8

Analyte	Result	Reporting			Analyzed	Method	Notes
		Limit	Units	Dilution			
Effluent (P411004-01) Water Sampled: 28-Oct-14 11:30 Received: 05-Nov-14 11:15							
Antimony	64	1.0	ug/L	1	20-Nov-14	200.8	
Arsenic	160	1.0	"	"	"	"	
Barium	110	5.0	"	"	"	"	
Beryllium	ND	2.0	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	
Chromium	ND	1.0	"	"	"	"	
Cobalt	ND	1.0	"	"	"	"	
Copper	480	5.0	"	"	"	"	
Lead	270	1.0	"	"	"	"	
Mercury	ND	0.10	"	"	"	"	
Molybdenum	12	1.0	"	"	"	"	
Nickel	53	5.0	"	"	"	"	
Selenium	ND	1.0	"	"	"	"	
Silver	ND	1.0	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	
Vanadium	ND	1.0	"	"	"	"	
Zinc	110	5.0	"	"	"	"	

Approved By

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



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

Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

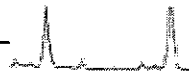
Work Order No.:
P411004

Volatile Organic Compounds by GC/MS - EPA Method 624

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
Effluent (P411004-01) Water Sampled: 28-Oct-14 11:30 Received: 05-Nov-14 11:15							
Benzene	ND	0.5	ug/L	1	10-Nov-14	EPA 624	
Bromodichloromethane	ND	0.5	"	"	"	"	
Bromoform	ND	0.5	"	"	"	"	
Bromomethane	ND	0.5	"	"	"	"	
Carbon tetrachloride	ND	0.5	"	"	"	"	
Chlorobenzene	ND	0.5	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	
2-Chloroethylvinyl ether	ND	1.0	"	"	"	"	
Chloroform	ND	0.5	"	"	"	"	
Chloromethane	ND	0.5	"	"	"	"	
Dibromochloromethane	ND	0.5	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	
1,2-Dichloroethane	ND	0.5	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	
1,2-Dichloropropane	ND	0.5	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.5	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	
Tetrachloroethene	ND	0.5	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	
Trichloroethene	ND	0.5	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	
Vinyl chloride	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	
Surr. Rec.:		94 %			"	"	
Surr. Rec.:		93 %			"	"	
Surr. Rec.:		88 %			"	"	

Approved By

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



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.: P411004
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ANALYSIS REPORT - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P401307 - General Prep

LCS (P401307-BS1)

Prepared & Analyzed: 11/05/14

pH	6.90		pH Units	7.0		99	95-105			
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Approved By

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



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.: P411004
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ICP-MS Metals EPA Method 200.8 - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P401306 - EPA 3005A

Blank (P401306-BLK1)

Prepared & Analyzed: 11/20/14

Antimony	ND	1.0	ug/L							
Arsenic	ND	1.0	"							
Barium	ND	5.0	"							
Beryllium	ND	2.0	"							
Cadmium	ND	1.0	"							
Chromium	ND	1.0	"							
Cobalt	ND	1.0	"							
Copper	ND	5.0	"							
Lead	ND	1.0	"							
Mercury	ND	0.10	"							
Molybdenum	ND	1.0	"							
Nickel	ND	5.0	"							
Selenium	ND	1.0	"							
Silver	ND	1.0	"							
Thallium	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	5.0	"							

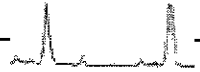
LCS (P401306-BS1)

Prepared & Analyzed: 11/20/14

Antimony	53.50		ug/L	50		107	80-120			
Arsenic	52.00		"	50		104	80-120			
Barium	53.00		"	50		106	80-120			
Beryllium	54.50		"	50		109	80-120			
Cadmium	52.00		"	50		104	80-120			
Chromium	53.00		"	50		106	80-120			
Cobalt	49.50		"	50		99	80-120			
Copper	53.00		"	50		106	80-120			
Lead	53.00		"	50		106	80-120			
Mercury	1.14		"	1.2		95	80-120			
Molybdenum	50.50		"	50		101	80-120			
Nickel	52.50		"	50		105	80-120			
Selenium	52.00		"	50		104	80-120			
Silver	51.00		"	50		102	80-120			
Thallium	48.00		"	50		96	80-120			
Vanadium	53.00		"	50		106	80-120			
Zinc	530.0		"	500		106	80-120			

Approved By

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



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.:
P411004

ICP-MS Metals EPA Method 200.8 - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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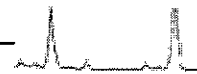
Batch P401306 - EPA 3005A

Matrix Spike (P401306-MSI)		Source: P411004-02			Prepared & Analyzed: 11/20/14					
Antimony	53.00		ug/L	50	ND	106	70-130			
Arsenic	52.50		"	50	1.10	103	70-130			
Barium	54.50		"	50	10.00	89	70-130			
Beryllium	47.50		"	50	ND	95	70-130			
Cadmium	50.00		"	50	ND	100	70-130			
Chromium	49.00		"	50	2.10	94	70-130			
Cobalt	44.00		"	50	1.90	84	70-130			
Copper	51.00		"	50	5.10	92	70-130			
Lead	50.50		"	50	ND	101	70-130			
Mercury	1.20		"	1.2	ND	100	70-130			
Molybdenum	51.50		"	50	ND	103	70-130			
Nickel	53.90		"	50	5.69	96	70-130			
Selenium	53.50		"	50	ND	107	70-130			
Silver	47.50		"	50	ND	95	70-130			
Thallium	46.00		"	50	ND	92	70-130			
Vanadium	51.00		"	50	ND	102	70-130			
Zinc	505.0		"	500	13.00	98	70-130			

Matrix Spike Dup (P401306-MSD1)		Source: P411004-02			Prepared & Analyzed: 11/20/14					
Antimony	52.50		ug/L	50	ND	105	70-130	0.9	20	
Arsenic	53.00		"	50	1.10	104	70-130	0.9	20	
Barium	53.00		"	50	10.00	86	70-130	3	20	
Beryllium	48.00		"	50	ND	96	70-130	1	20	
Cadmium	49.50		"	50	ND	99	70-130	1	20	
Chromium	50.00		"	50	2.10	96	70-130	2	20	
Cobalt	46.50		"	50	1.90	89	70-130	6	20	
Copper	48.50		"	50	5.10	87	70-130	5	20	
Lead	51.00		"	50	ND	102	70-130	1	20	
Mercury	1.24		"	1.2	ND	103	70-130	3	20	
Molybdenum	51.50		"	50	ND	103	70-130	0	20	
Nickel	50.60		"	50	5.69	90	70-130	6	20	
Selenium	54.50		"	50	ND	109	70-130	2	20	
Silver	47.50		"	50	ND	95	70-130	0	20	
Thallium	45.50		"	50	ND	91	70-130	1	20	
Vanadium	51.50		"	50	ND	103	70-130	1	20	
Zinc	525.0		"	500	13.00	102	70-130	4	20	

Approved By

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



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.:
 P411004

Volatile Organic Compounds by GC/MS - EPA Method 624 - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P401282 - EPA 5030B

Blank (P401282-BLK1)

Prepared & Analyzed: 11/10/14

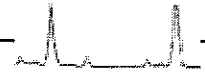
Surrogate: Dibromofluoromethane	51.0		ug/L	50		102	70-130			
Surrogate: Toluene-d8	50.5		"	50		101	70-130			
Surrogate: 4-Bromofluorobenzene	43.5		"	50		87	70-130			
Benzene	ND	0.5	"							
Bromodichloromethane	ND	0.5	"							
Bromoform	ND	0.5	"							
Bromomethane	ND	0.5	"							
Carbon tetrachloride	ND	0.5	"							
Chlorobenzene	ND	0.5	"							
Chloroethane	ND	0.5	"							
2-Chloroethylvinyl ether	ND	1.0	"							
Chloroform	ND	0.5	"							
Chloromethane	ND	0.5	"							
Dibromochloromethane	ND	0.5	"							
1,2-Dichlorobenzene	ND	0.5	"							
1,3-Dichlorobenzene	ND	0.5	"							
1,4-Dichlorobenzene	ND	0.5	"							
Dichlorodifluoromethane	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
1,2-Dichloroethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,2-Dichloropropane	ND	0.5	"							
cis-1,3-Dichloropropene	ND	0.5	"							
trans-1,3-Dichloropropene	ND	0.5	"							
Ethylbenzene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Tetrachloroethene	ND	0.5	"							
Toluene	ND	0.5	"							
Trichloroethene	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.5	"							
Xylenes (total)	ND	1.0	"							

LCS (P401282-BS1)

Prepared & Analyzed: 11/10/14

Approved By

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



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.:
P411004

Volatile Organic Compounds by GC/MS - EPA Method 624 - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P401282 - EPA 5030B

LCS (P401282-BS1)

Prepared & Analyzed: 11/10/14

Benzene	26.5		ug/L	25		106	80-120			
Chlorobenzene	25.3		"	25		101	80-120			
1,1-Dichloroethene	26.5		"	25		106	80-120			
Toluene	28.2		"	25		113	80-120			
Trichloroethene	23.4		"	25		94	80-120			

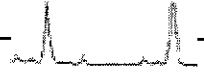
LCS Dup (P401282-BSD1)

Prepared & Analyzed: 11/10/14

Benzene	23.9		ug/L	25		96	80-120	10	20	
Chlorobenzene	26.8		"	25		107	80-120	6	20	
1,1-Dichloroethene	23.9		"	25		96	80-120	10	20	
Toluene	25.5		"	25		102	80-120	10	20	
Trichloroethene	25.9		"	25		104	80-120	10	20	

Approved By

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



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.:
P411004

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

Approved By

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