Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 160010
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/05/2016
DATE REPORTED : 01/08/2016

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ridge Park			Sample Reporting Limit (SRL) (MRLxDF's)	Starter Set Preschool			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	160010-86397				160010-86398				
Date Sampled	01/04/2016				01/04/2016				
Date Analyzed	01/07/2016				01/07/2016				
Can Dilution Factor	1.53				1.40				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Methane*	2330		1.0	765	2180		1.0	700	500
Benzene**	0.15	J	1.0	0.15	<SRL	U	1.0	0.14	0.1
Toluene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.70	0.5
Ethylbenzene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.70	0.5
m & p-Xylenes	<SRL	U	1.0	1.53	<SRL	U	1.0	1.40	1.0
o-Xylene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.70	0.5
BFB-Surrogate Std. % Recovery	101%				103%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
** - Benzene is being reported down to MDL reporting limits.
* - Results from EPA Method 18 modified analysis on 01/05/2016 and 01/06/2016.

Marcus Hueppe
Laboratory Director

1534 Eastman Ave., Ste. A • Ventura, • CA 93003 www.aaclab.com • (805) 650-1642 • FAX (805) 650-1644

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 160010
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/05/2016
DATE REPORTED : 01/08/2016

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Castlebay Elementary School			Sample Reporting Limit (SRL) (MRLxDF's)	Highlands 2			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	160010-86399				160010-86400				
Date Sampled	01/04/2016				01/04/2016				
Date Analyzed	01/07/2016				01/07/2016				
Can Dilution Factor	1.52				1.39				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Methane*	2290		1.0	761	2240		1.0	693	500
Benzene**	<SRL	U	1.0	0.15	<SRL	U	1.0	0.14	0.1
Toluene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.69	0.5
Ethylbenzene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.69	0.5
m & p-Xylenes	<SRL	U	1.0	1.52	<SRL	U	1.0	1.39	1.0
o-Xylene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.69	0.5
BFB-Surrogate Std. % Recovery	100%				100%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
** - Benzene is being reported down to MDL reporting limits.
* - Results from EPA Method 18 modified analysis on 01/05/2016 and 01/06/2016.

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Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 160010
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/05/2016
DATE REPORTED : 01/08/2016

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ranch Community School			Sample Reporting Limit (SRL) (MRLxDF's)	Holleigh Bernson Park			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	160010-86401				160010-86402				
Date Sampled	01/04/2016				01/04/2016				
Date Analyzed	01/07/2016				01/07/2016				
Can Dilution Factor	1.51				1.48				
	Result	**Qualifier**	**Analysis DF**		**Result**	**Qualifier**	**Analysis DF**		
Methane*	2380		1.0	755	2270		1.0	739	500
Benzene**	<SRL	U	1.0	0.15	<SRL	U	1.0	0.15	0.1
Toluene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.74	0.5
Ethylbenzene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.74	0.5
m & p-Xylenes	<SRL	U	1.0	1.51	<SRL	U	1.0	1.48	1.0
o-Xylene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.74	0.5
BFB-Surrogate Std. % Recovery	102%				101%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
** - Benzene is being reported down to MDL reporting limits.
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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 160010
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/05/2016
DATE REPORTED : 01/08/2016

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ranch Estates			Sample Reporting Limit (SRL) (MRLxDF's)	Highlands 1			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	160010-86403				160010-86404				
Date Sampled	01/04/2016				01/04/2016				
Date Analyzed	01/07/2016				01/07/2016				
Can Dilution Factor	1.52				1.52				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Methane*	2330		1.0	762	2540		1.0	758	500
Benzene**	<SRL	U	1.0	0.15	0.17	J	1.0	0.15	0.1
Toluene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.76	0.5
Ethylbenzene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.76	0.5
m & p-Xylenes	<SRL	U	1.0	1.52	<SRL	U	1.0	1.52	1.0
o-Xylene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.76	0.5
BFB-Surrogate Std. % Recovery	103%				105%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
** - Benzene is being reported down to MDL reporting limits.
* - Results from EPA Method 18 modified analysis on 01/05/2016 and 01/06/2016.

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 160010
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/05/2016
DATE REPORTED : 01/08/2016

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ranch Estates 2			Sample Reporting Limit (SRL) (MRLxDF's)	Highlands 3			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	160010-86405				160010-86406				
Date Sampled	01/04/2016				01/04/2016				
Date Analyzed	01/07/2016				01/07/2016				
Can Dilution Factor	1.51				1.62				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Methane*	2560		1.0	756	2390		1.0	809	500
Benzene**	0.18	J	1.0	0.15	<SRL	U	1.0	0.16	0.1
Toluene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.81	0.5
Ethylbenzene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.81	0.5
m & p-Xylenes	<SRL	U	1.0	1.51	<SRL	U	1.0	1.62	1.0
o-Xylene	<SRL	U	1.0	0.76	<SRL	U	1.0	0.81	0.5
BFB-Surrogate Std. % Recovery	103%				103%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
** - Benzene is being reported down to MDL reporting limits.
* - Results from EPA Method 18 modified analysis on 01/05/2016 and 01/06/2016.

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Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 160010
MATRIX : AIR
UNITS : ppbV

SAMPLING DATE : 01/04/2016
RECEIVING DATE : 01/05/2016
ANALYSIS DATE : 01/05/2016
REPORT DATE : 01/06/2016

Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	Porter Ridge Park	Starter Set Preschool	Castlebay Elementary School	Highlands 2	Porter Ranch Community School	Holleigh Bernson Park
AAC ID	160010-86397	160010-86398	160010-86399	160010-86400	160010-86401	160010-86402
Canister Dil. Fac.	1.53	1.40	1.52	1.39	1.51	1.48
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Carbonyl Sulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Sulfur Dioxide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Methyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Ethyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Dimethyl Sulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Carbon Disulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Isopropyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
tert-Butyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
n-Propyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Methylethylsulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
sec-Butyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Thiophene	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
iso-Butyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Diethyl Sulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
n-Butyl Mercaptan	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Dimethyl Disulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
2-Methylthiophene	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
3-Methylthiophene	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Tetrahydrothiophene	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Bromothiophene	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Thiophenol	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Diethyl disulfide	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Total Unidentified Sulfur	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33
Total Reduced Sulfurs as H_2S	< 2.41	< 2.21	< 2.40	< 2.19	< 2.38	< 2.33

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

Marcus Hueppe
Laboratory Director

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LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 160010
MATRIX : AIR
UNITS : ppbV

SAMPLING DATE : 01/04/2016
RECEIVING DATE : 01/05/2016
ANALYSIS DATE : 01/05/2016
REPORT DATE : 01/06/2016

Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	Porter Ranch Estates	Highlands 1	Porter Ranch Estates 2	Highlands 3
AAC ID	160010-86403	160010-86404	160010-86405	160010-86406
Canister Dil. Fac.	1.52	1.52	1.51	1.62
Analyte	Result	Result	Result	Result
Hydrogen Sulfide	< 2.41	< 2.39	< 2.39	< 2.55
Carbonyl Sulfide	< 2.41	< 2.39	< 2.39	< 2.55
Sulfur Dioxide	< 2.41	< 2.39	< 2.39	< 2.55
Methyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Ethyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Dimethyl Sulfide	< 2.41	< 2.39	< 2.39	< 2.55
Carbon Disulfide	< 2.41	< 2.39	< 2.39	< 2.55
Isopropyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
tert-Butyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
n-Propyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Methylethylsulfide	< 2.41	< 2.39	< 2.39	< 2.55
sec-Butyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Thiophene	< 2.41	< 2.39	< 2.39	< 2.55
iso-Butyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Diethyl Sulfide	< 2.41	< 2.39	< 2.39	< 2.55
n-Butyl Mercaptan	< 2.41	< 2.39	< 2.39	< 2.55
Dimethyl Disulfide	< 2.41	< 2.39	< 2.39	< 2.55
2-Methylthiophene	< 2.41	< 2.39	< 2.39	< 2.55
3-Methylthiophene	< 2.41	< 2.39	< 2.39	< 2.55
Tetrahydrothiophene	< 2.41	< 2.39	< 2.39	< 2.55
Bromothiophene	< 2.41	< 2.39	< 2.39	< 2.55
Thiophenol	< 2.41	< 2.39	< 2.39	< 2.55
Diethyl disulfide	< 2.41	< 2.39	< 2.39	< 2.55
Total Unidentified Sulfur	< 2.41	< 2.39	< 2.39	< 2.55
Total Reduced Sulfurs as H_2S	< 2.41	< 2.39	< 2.39	< 2.55

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

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SCEC
1631 E. Saint Andrew Place Santa Ana, CA 92705
(714) 282-8240 phone, (714) 282-8247 fax

Chain of Custody Record
Analytical Services Request

#160010

Client/Project Name: So Cal Gas Company	Client Project No.: 2045.1063	ANALYSES REQUESTED					Laboratory Name: Atmospheric Analysis and Consulting, Inc.
Project Location: Aliso Canyon		SCAQMD 307.91 (Hydrogen Sulfide and Reduced Sulfur Compounds)	VOC's by PAMS or EPA TO-15	Modified EPA Method 18 methane			Lab Contact: Marcus Hueppe
Contact: Rudy Nunez	Sampler (Signature)						Lab Phone No.: 805-650-1642
	SAMPLE						Turnaround Time 24 Hour

Sample #	Description	Date	Start Time	End Time	Type						Remarks:
1	Porter Ridge Park	1-4-2016	1817	1834	Canister	x	x	x	86	397	QA/QC DATA PACKAGE ON ALL SAMPLES
2	Starter Set Preschool		1837	1854	Canister	x	x	x	86	398	
3	Castlebay Elementary School		1857	1914	Canister	x	x	x	86	399	Email data to: rnunez@montrose-env.com
4	Highlands 2		1918	1935	Canister	x	x	x	86	400	
5	Porter Ranch Community School		1942	1959	Canister	x	x	x	86	401	
6	Holleigh Bernson Park		2002	2019	Canister	x	x	x	86	402	
7	Porter Ranch Estates		2023	2040	Canister	x	x	x	86	403	
8	Highlands 1		2043	2100	Canister	x	x	x	86	404	
9	Porter Ranch Estates 2		2103	2120	Canister	x	x	x	86	405	
10	Highlands 3		2122	2139	Canister	x	x	x	86	406	

Relinquished by (Signature):	Company:	Date	Time	Received by (Signature):	Company:	Date:	Time:
	SCEC	1-4-2016	2145			1/4	9:45
		1-5-16	7:25			1/5/16	7:25

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LABORATORY REPORT

January 6, 2016

Glenn La Fevers
Southern California Gas Company
12801 Tampa Ave
Northridge, CA 91326-1045

RE: So Cal Gas Company / 2045.1063

Dear Glenn:

Enclosed are the results of the samples submitted to our laboratory on January 4, 2016. For your reference, these analyses have been assigned our service request number P1600021.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 1:16 pm, Jan 06, 2016

Sue Anderson
Project Manager

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Client: Southern California Gas Company
Project: So Cal Gas Company / 2045.1063

Service Request No: P1600021

CASE NARRATIVE

The samples were received intact under chain of custody on January 4, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

C1 through C6 Hydrocarbon and TGNMO Analysis

The samples were analyzed per modified EPA Method TO-3 for C1 through >C6 hydrocarbons and total gaseous non-methane organics as methane using a gas chromatograph equipped with a flame ionization detector (FID). This procedure is described in laboratory SOP VOA-TO3C1C6. This method is included on the laboratory's DoD-ELAP scope of accreditation, however it is not part of the NELAP or AIHA-LAP accreditation.

Sulfur Analysis

The samples were also analyzed for seven sulfur compounds and total reduced sulfur as hydrogen sulfide (TRS as H_2S) per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. The results for TRS as H_2S were determined by obtaining the total response for all chromatographic peaks and quantitating the value against the initial calibration curve for hydrogen sulfide thus generating a result specified as "Total Reduced Sulfur as Hydrogen Sulfide". This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

Volatile Organic Compound Analysis

The samples were also analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. According to the method, the use of Tedlar bags is considered a method modification. This

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Client: Southern California Gas Company
Project: So Cal Gas Company / 2045.1063

Service Request No: P1600021

CASE NARRATIVE

method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

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www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Southern California Gas Company
Project ID: So Cal Gas Company / 2045.1063
Service Request: P1600021

Date Received: 1/4/2016
Time Received: 22:00

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	TO-3 Modified - C1C6+ Bag	ASTM D 5504-12 - Sulfur Bag	TO-15 Modified - VOC Bags
SS-09	P1600021-001	Air	1/4/2016	16:52	X	X	X
SS-3H	P1600021-002	Air	1/4/2016	16:58	X	X	X
R-1	P1600021-003	Air	1/4/2016	17:14	X	X	X
SF-2/5	P1600021-004	Air	1/4/2016	17:24	X	X	X
SF-1	P1600021-005	Air	1/4/2016	17:30	X	X	X
P-40	P1600021-006	Air	1/4/2016	17:37	X	X	X
MA1-A	P1600021-007	Air	1/4/2016	17:50	X	X	X
T-3 Low Road	P1600021-008	Air	1/4/2016	17:58	X	X	X
T-3 High Road	P1600021-009	Air	1/4/2016	18:06	X	X	X

SCEC

1631 E. Saint Andrew Place Santa Ana, CA 92705
(714) 282-8240 phone, (714) 282-8247 fax

Chain of Custody Record
Analytical Services Request

P1600021

Client/Project Name: So Cal Gas Company		Client Project No.: 2045.1063				ANALYSES REQUESTED					Laboratory Name: ALS
Project Location: Aliso Canyon						EPA TO-3 modified C1-C6 & TGNMO as Methane	EPA TO-15 BTEX	ASTM D5504-12 Selected Sulfur Compounds and TRS as H2S			Lab Contact: Kelly Horiuchi
Contact: Rudy Nunez		Sampler (Signature) RY NY FOR TRAVIS F									Lab Phone No.: 805-577-2088
Sample #	Description	SAMPLE Date	Start Time	End Time	Type						Turnaround Time 24 Hour
1	SS-09	1/4/2016	1650	1652	Tedlar Bag	x	x	x			Remarks: QA/QC DATA PACKAGE ON ALL SAMPLES
2	SS-3H	1/4/2016	1656	1658	Tedlar Bag	x	x	x			
3	R-1	1/4/2016	1712	1714	Tedlar Bag	x	x	x			Email data to: rnunez@montrose-env.com
4	SF-2/5	1/4/2016	1722	1724	Tedlar Bag	x	x	x			Email data to: Ms. Ruth Custance
5	SF-1	1/4/2016	1728	1730	Tedlar Bag	x	x	x			Email Adress: RCustance@Geosyntec.com
6	P-40	1/4/2016	1735	1737	Tedlar Bag	x	x	x			
7	MA1-A	1/4/2016	1748	1750	Tedlar Bag	x	x	x			
8	T-3 Low Road	1/4/2016	1756	1758	Tedlar Bag	x	x	x			
9	T-3 High Road	1/4/2016	1804	1806	Tedlar Bag	x	x	x			

Relinquished by (Signature):	Company:	Date	Time	Received by (Signature):	Company:	Date:	Time:
RY NY FOR TRAVIS	MONTROSE	1/4/16	2200		ALS	1/4/16	2200
Relinquished by (Signature):	Company:	Date	Time	Received by (Signature):	Company:	Date:	Time:
Relinquished by (Signature):	Company:	Date	Time	Received by (Signature):	Company:	Date:	Time:

ALS Environmental
Sample Acceptance Check Form

Client: Southern California Gas Company Work order: P1600021

Project: So Cal Gas Company / 2045.1063

Sample(s) received on: 1/4/16 Date opened: 1/4/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1600021-001.01	5L tedlar bag					
P1600021-002.01	5L tedlar bag					
P1600021-003.01	5L tedlar bag					
P1600021-004.01	5L tedlar bag					
P1600021-005.01	5L tedlar bag					
P1600021-006.01	5L tedlar bag					
P1600021-007.01	5L tedlar bag					
P1600021-008.01	5L tedlar bag					
P1600021-009.01	5L tedlar bag					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-09** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-001

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.8**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**3.3**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**20**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-3H** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-002

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.3**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**3.5**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**21**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **R-1** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-003

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.1**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**3.7**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**22**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-2/5** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-004

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.2**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**3.2**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**19**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-1** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-005

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**1.9**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**2.2**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**13**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **P-40** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-006

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.2**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**4.1**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**25**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **MA1-A** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-007

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.3**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**1.5**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**9.1**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 Low Road** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-008

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.0**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**2.2**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**13**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 High Road** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-009

Test Code: EPA TO-3 Modified Date Collected: 1/4/16
Instrument ID: HP5890 II/GC8/FID Date Received: 1/4/16
Analyst: Wade Henton Date Analyzed: 1/5/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	**2.2**	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	**2.8**	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	**17**	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **Method Blank** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P160105-MB

Test Code: EPA TO-3 Modified Date Collected: NA
Instrument ID: HP5890 II/GC8/FID Date Received: NA
Analyst: Wade Henton Date Analyzed: 1/05/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.0 ml(s)
Test Notes:

Compound	Result ppmV	MRL ppmV	Data Qualifier
Methane	ND	0.50	
C_2 as Ethane	ND	0.50	
C_3 as Propane	ND	0.50	
C_4 as n-Butane	ND	0.50	
C_5 as n-Pentane	ND	0.50	
C_6 as n-Hexane	ND	0.50	
C_6+ as n-Hexane	ND	0.50	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Southern California Gas Company**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P160105-LCS

Test Code: EPA TO-3 Modified Date Collected: NA
Instrument ID: HP5890 II/GC8/FID Date Received: NA
Analyst: Wade Henton Date Analyzed: 1/05/16
Sampling Media: 5.0 L Tedlar Bag Volume(s) Analyzed: NA ml(s)
Test Notes:

Compound	Spike Amount ppmV	Result ppmV	% Recovery	ALS Acceptance Limits	Data Qualifier
Methane	1,020	**931**	**91**	83-107	
Ethane	1,010	**1,010**	**100**	77-111	
Propane	1,010	**1,020**	**101**	78-110	
n-Butane	1,010	**1,020**	**101**	73-109	
n-Pentane	1,010	**1,100**	**109**	75-115	
n-Hexane	1,020	**1,150**	**113**	73-121	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-09**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-001

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 16:52
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 10:21
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-3H** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-002

Test Code: ASTM D 5504-12 Date Collected: 1/4/16
Instrument ID: Agilent 7890A/GC22/SCD Time Collected: 16:58
Analyst: Wade Henton Date Received: 1/4/16
Sample Type: 5.0 L Tedlar Bag Date Analyzed: 1/5/16
Test Notes: Time Analyzed: 10:58
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **R-1**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-003

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:14
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 12:40
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-2/5**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-004

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:24
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 12:24
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-1**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-005

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:30
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 12:08
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **P-40**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-006

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:37
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 11:53
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **MA1-A**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-007

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:50
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 11:37
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 Low Road**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-008

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 17:58
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 11:22
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 High Road**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P1600021-009

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: 1/4/16
Time Collected: 18:06
Date Received: 1/4/16
Date Analyzed: 1/5/16
Time Analyzed: 10:37
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Project ID: P1600021

Total Reduced Sulfur as Hydrogen Sulfide

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD Date(s) Collected: 1/4/16
Analyst: Wade Henton Date Received: 1/4/16
Sample Type: 5.0 L Tedlar Bag(s) Date Analyzed: 1/5/16
Test Notes:

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Time Analyzed	**Result ppbV**	MRL ppbV	Data Qualifier
SS-09	P1600021-001	2.0	10:21	ND	5.0	
SS-3H	P1600021-002	2.0	10:58	ND	5.0	
R-1	P1600021-003	2.0	12:40	ND	5.0	
SF-2/5	P1600021-004	2.0	12:24	ND	5.0	
SF-1	P1600021-005	2.0	12:08	ND	5.0	
P-40	P1600021-006	2.0	11:53	ND	5.0	
MA1-A	P1600021-007	2.0	11:37	ND	5.0	
T-3 Low Road	P1600021-008	2.0	11:22	ND	5.0	
T-3 High Road	P1600021-009	2.0	10:37	ND	5.0	
Method Blank	P160105-MB	2.0	10:06	ND	5.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **Method Blank**
Client Project ID: **So Cal Gas Company / 2045.1063**

ALS Project ID: P1600021
ALS Sample ID: P160105-MB

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Wade Henton
Sample Type: 5.0 L Tedlar Bag
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 1/05/16
Time Analyzed: 10:06
Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Southern California Gas Company**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P160105-LCS

Test Code: ASTM D 5504-12 Date Collected: NA
Instrument ID: Agilent 7890A/GC22/SCD Date Received: NA
Analyst: Wade Henton Date Analyzed: 1/05/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: NA ml(s)
Test Notes:

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,080**	**108**	65-138	
463-58-1	Carbonyl Sulfide	1,000	**1,070**	**107**	60-135	
74-93-1	Methyl Mercaptan	1,000	**1,010**	**101**	57-140	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-09** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-001

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	**0.53**	0.31	
108-88-3	Toluene	**1.4**	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SS-3H** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-002

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **R-1** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-003

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-2/5** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-004

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **SF-1** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-005

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **P-40** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-006

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **MA1-A** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-007

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 Low Road** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-008

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **T-3 High Road** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-009

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.31	
108-88-3	Toluene	ND	1.3	
100-41-4	Ethylbenzene	ND	1.2	
179601-23-1	m,p-Xylenes	ND	1.2	
95-47-6	o-Xylene	ND	1.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Southern California Gas Company**
Client Sample ID: **Method Blank** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P160105-MB

Test Code: EPA TO-15 Modified Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.031	
108-88-3	Toluene	ND	0.13	
100-41-4	Ethylbenzene	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.12	
95-47-6	o-Xylene	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Southern California Gas Company**
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Project ID: P1600021

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 1/4/16
Analyst: Simon Cao Date(s) Received: 1/4/16
Sample Type: 5.0 L Tedlar Bag(s) Date(s) Analyzed: 1/5/16
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P160105-MB	**91**	**103**	**105**	70-130	
Lab Control Sample	P160105-LCS	**86**	**102**	**108**	70-130	
SS-09	P1600021-001	**87**	**107**	**114**	70-130	
SS-3H	P1600021-002	**83**	**107**	**115**	70-130	
R-1	P1600021-003	**86**	**105**	**116**	70-130	
SF-2/5	P1600021-004	**83**	**106**	**116**	70-130	
SF-1	P1600021-005	**83**	**106**	**116**	70-130	
SF-1	P1600021-005DUP	**86**	**106**	**116**	70-130	
P-40	P1600021-006	**83**	**107**	**117**	70-130	
MA1-A	P1600021-007	**83**	**107**	**116**	70-130	
T-3 Low Road	P1600021-008	**83**	**106**	**116**	70-130	
T-3 High Road	P1600021-009	**84**	**106**	**117**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Southern California Gas Company**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P160105-LCS

Test Code: EPA TO-15 Modified Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
71-43-2	Benzene	70.8	**59.2**	**84**	61-110	
108-88-3	Toluene	57.9	**50.0**	**86**	67-117	
100-41-4	Ethylbenzene	50.2	**44.7**	**89**	69-123	
179601-23-1	m,p-Xylenes	98.6	**87.4**	**89**	67-125	
95-47-6	o-Xylene	48.4	**42.2**	**87**	67-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **Southern California Gas Company**
Client Sample ID: **SF-1** ALS Project ID: P1600021
Client Project ID: **So Cal Gas Company / 2045.1063** ALS Sample ID: P1600021-005DUP

Test Code: EPA TO-15 Modified Date Collected: 1/4/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 1/4/16
Analyst: Simon Cao Date Analyzed: 1/5/16
Sample Type: 5.0 L Tedlar Bag Volume(s) Analyzed: 0.10 Liter(s)
Test Notes:

Compound	Sample Result ppbV	**Duplicate Sample Result** ppbV	Average	**% RPD**	RPD Limit	**Data Qualifier**
Benzene	ND	ND	-	-	25	
Toluene	ND	ND	-	-	25	
Ethylbenzene	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	-	-	25	
o-Xylene	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.