

2655 Park Center Dr., Suite A Simi Valley, CA 93065 T: +1 805 526 7161 F: +1 805 526 7270 www.alsglobal.com

LABORATORY REPORT

January 20, 2016

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

RE: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

Dear Glenn:

Enclosed are the results of the samples submitted to our laboratory on January 19, 2016. For your reference, these analyses have been assigned our service request number P1600242.

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 <u>www.alsglobal.com</u>. 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

'nl By Sue Anderson at 12:35 pm, Jan 20, 2016

Sue Anderson Project Manager



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Client:Southern California Gas CompanyService Request No:P1600242Project:SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

CASE NARRATIVE

The samples were received intact under chain of custody on January 19, 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.

Methane Analysis

The samples were analyzed per modified EPA Method TO-3 for 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 ten sulfur compounds 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. 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. This 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 canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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 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.



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/EnvironmentalLaborat oryAccreditation/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	CA01627201 5-5
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 <u>www.alsglobal.com</u>, 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.

DETAIL SUMMARY REPORT

Client: Southern California Gas Company Project ID: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424 Service Request: P1600242

Date Received: Time Received: Client Sample ID	1/19/2016 09:00 Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-3 Modified - C1C6+ Can	ASTM D 5504-12 - Sulfur Can	TO-15 - VOC Cans	
AA-01-B-011816	P1600242-001	Air	1/18/2016	18:04	AS00906	-5.42	1.11	X	X	X	
AA-02-B-011816	P1600242-002	Air	1/18/2016	18:16	AS00987	-2.57	1.06	Х	Х	Х	
AA-03-B-011816	P1600242-003	Air	1/18/2016	18:30	AS00950	-1.59	1.31	Х	х	х	
AA-04-B-011816	P1600242-004	Air	1/18/2016	18:49	AS00930	-2.43	1.32	Х	Х	Х	
AA-05-B-011816	P1600242-005	Air	1/18/2016	18:57	AS00916	-3.01	1.27	Х	Х	х	
AA-06-B-011816	P1600242-006	Air	1/18/2016	19:07	AS00914	-0.57	1.06	Х	Х	Х	
SS-3H-B-011816	P1600242-007	Air	1/18/2016	18:05	AS00997	-3.03	1.16	Х	Х	Х	
SF-1-B-011816	P1600242-008	Air	1/18/2016	18:17	AS00988	-2.73	1.10	Х	Х	Х	
SF-2/5-B-011816	P1600242-009	Air	1/18/2016	18:26	AS00920	-2.43	1.25	Х	Х	Х	

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

2655 Park Center Drive, Suite A Simi Valley, California 93065 Phone (805) 526-7161

Requested Turnaround Time in Business Days (Surcharges) please circle

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		Fax (805) 526-7270		1 Day (100%)) 2 Day (75%)	3 Day (50%) 4 Da	iys (ourcnarge y (35%) 5 Day	es bays (surcharges) please circle 4 Day (35%) 5 Day (25%) 10 Day-Standard	ie Standard	ALS Project No.	0	47
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Anaheim, CA 92805				14424						njin		
Project Manager SON BUI				P.O. # / Billin	Billing Information				əui	(Sč s paj		
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Client Sample ID	Laboratory ID Number	Collection	Collection	Collection Vessel	Canister ID (Bar code # - AC. SC. etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Ho	Canister End Pressure	от 8-0	unodwa a WLS	8) S1-C	
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AA-03-B-011816	B	Start: 01/18/16 End: 01/18/16	0634 1830	Silonite Canister	AS00 950	SFC 00 /7€	29.5	3	×	×	×	
AA-04-B-011816	G	Start: 01/18/16 End: 01/18/16	0654 1849	Silonite Canister	AS 00 930	SFCOD 149	28.5	S	×	×	×	
AA-05-B-011816	3	Start: 01/18/16 End: 01/18/16	0710 1952	Silonite Canister	91500 SV	secool 79	28	5.9	×	×	×	
AA-06-B-0,11816	٩	Start: 01/18/16 End: 01/18/16	1220 1907	Silonite Canister	41200 SA	srooory	27	0	×	×	×	
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kallitiduisuaa py: (olgnamic)	(6		Date:	Time:	Received by: (Signature)	(nature)			Date:	Time:		

ALS Environmental Sample Acceptance Check Form

		Sump	e meepfumee	<u>-</u>	Work order:	P1600242			
		ALISO CAN							
(s) received on:	1/19/16			Date opened:	1/19/16	by:	SAND	ERSON	1
								ndication	of
or nonconformity.	Thermal preservation and	pH will only be e	valuated either at	the request of th	e client and/or as req	uired by the metho		No	<u>N/A</u>
Were sample	containers properly n	narked with cli	ient sample ID	?			\mathbf{X}		
Did sample co	ontainers arrive in goo	od condition?					X		
Were chain-of-custody papers used and filled out?									
Did sample co	ontainer labels and/or	tags agree wi	th custody pap	ers?			X		
_							X		
6 Are samples within specified holding times?							X		
Was proper te	mperature (thermal p	reservation) o	f cooler at rec	eipt adhered t					X
Were custody	seals on outside of co	oler/Box/Con	tainer?						X
·						Sealing Lid?			X
Were signatur									X
Were seals int	act?								X
Do containe	rs have appropriate pr	eservation, a	ccording to me	ethod/SOP or	Client specified	information?			X
Is there a clie	nt indication that the s	ubmitted samp	oles are pH pro	eserved?	-				X
Were VOA v	ials checked for presen	nce/absence of	f air bubbles?						X
Does the clien	t/method/SOP require	that the analy	st check the sa	mple pH and	if necessary alter	r it?			\mathbf{X}
	-	•		1 1	<u>_</u>				X
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Sample ID		-	Received	-	-		-		1
	Description	pH *	pH	рН	(Presence/Absence))	Commen	nts	
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Explain any discrepancies: (include lab sample ID numbers):

6.0 L Silonite Can

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

P1600242-005.01

P1600242-006.01

P1600242-007.01

P1600242-008.01

P1600242-009.01

RESULTS OF ANALYSIS

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Client:Southern California Gas CompanyALS Project ID: P1600242Client Project ID:SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

Methane

Test Code:	EPA TO-3 Modified	
Instrument ID:	HP5890 II/GC8/FID	Date(s) Collected: 1/18/16
Analyst:	Mike Conejo	Date Received: 1/19/16
Sampling Media:	6.0 L Silonite Canister(s)	Date Analyzed: 1/19/16
Test Notes:		

Client Sample ID	ALS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	Result ppmV	MRL ppmV	Data Qualifier
AA-01-B-011816	P1600242-001	1.70	1.0	3.4	0.85	
AA-02-B-011816	P1600242-002	1.30	1.0	3.2	0.65	
AA-03-B-011816	P1600242-003	1.22	1.0	3.1	0.61	
AA-04-B-011816	P1600242-004	1.31	1.0	3.2	0.66	
AA-05-B-011816	P1600242-005	1.37	1.0	3.3	0.69	
AA-06-B-011816	P1600242-006	1.12	1.0	3.2	0.56	
SS-3H-B-011816	P1600242-007	1.36	1.0	30	0.68	
SF-1-B-011816	P1600242-008	1.32	1.0	3.7	0.66	
SF-2/5-B-011816	P1600242-009	1.30	1.0	3.5	0.65	
Method Blank	P160119-MB	1.00	1.0	ND	0.50	

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

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client:	Southern California Gas Company	
Client Sample ID:	Lab Control Sample	ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Sample ID: P160119-LCS

Test Code:	EPA TO-3 Modified	Date Collected: NA
Instrument ID:	HP5890 II/GC8/FID	Date Received: NA
Analyst:	Mike Conejo	Date Analyzed: 1/19/16
Sampling Media:	6.0 L Silonite Canister	Volume(s) Analyzed: NA ml(s)
Test Notes:		

				ALS	
Compound	Spike Amount	Result	% Recovery	Acceptance	Data
	ppmV	ppmV		Limits	Qualifier
Methane	1,020	1,060	104	83-107	

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company		
Client Sample ID:	AA-01-B-011816		ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYO	ON STATION / 14424	ALS Sample ID: P1600242-001
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 7890A/GC22/SCD		Time Collected: 18:04
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 10:38
Container ID:	AS00906		Volume(s) Analyzed: 2.0 ml(s)
	Initial Pressure (psig): -5.42 F	Final Pressure (psig):	1.11

Canister Dilution Factor: 1.70

CAS #	Compound	Result	MRL	Data
		ppbV	ppbV	Qualifier
7783-06-4	Hydrogen Sulfide	ND	8.5	
463-58-1	Carbonyl Sulfide	ND	8.5	
74-93-1	Methyl Mercaptan	ND	4.3	
75-08-1	Ethyl Mercaptan	ND	4.3	
75-18-3	Dimethyl Sulfide	ND	4.3	
75-15-0	Carbon Disulfide	ND	4.3	
75-33-2	Isopropyl Mercaptan	ND	4.3	
75-66-1	tert-Butyl Mercaptan	ND	4.3	
107-03-9	n-Propyl Mercaptan	ND	4.3	
110-01-0	Tetrahydrothiophene	ND	4.3	

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

RESULTS OF ANALYSIS Page 1 of 1

Client: Client Sample ID:			ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATI	ON / 14424	ALS Sample ID: P1600242-002
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 6890A/GC13/SCD		Time Collected: 18:16
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 10:47
Container ID:	AS00987		Volume(s) Analyzed: 1.0 ml(s)
	Initial Pressure (psig): -2.57 Final Pres	ssure (psig):	1.06

Canister Dilution Factor: 1.30

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.5	
463-58-1	Carbonyl Sulfide	ND	6.5	
74-93-1	Methyl Mercaptan	ND	3.3	
75-08-1	Ethyl Mercaptan	ND	3.3	
75-18-3	Dimethyl Sulfide	ND	3.3	
75-15-0	Carbon Disulfide	ND	3.3	
75-33-2	Isopropyl Mercaptan	ND	3.3	
75-66-1	tert-Butyl Mercaptan	ND	3.3	
107-03-9	n-Propyl Mercaptan	ND	3.3	
110-01-0	Tetrahydrothiophene	ND	3.3	

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

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company	
Client Sample ID:	AA-03-B-011816	ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Sample ID: P1600242-003
Test Code:	ASTM D 5504-12	Date Collected: 1/18/16
Instrument ID:	Agilent 7890A/GC22/SCD	Time Collected: 18:30
Analyst:	Mike Conejo	Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister	Date Analyzed: 1/19/16
Test Notes:		Time Analyzed: 10:50
Container ID:	AS00950	Volume(s) Analyzed: 2.0 ml(s)
	Initial Pressure (psig): -1.59 Final Pressure (psig)): 1.31

Canister Dilution Factor: 1.22

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.1	
463-58-1	Carbonyl Sulfide	ND	6.1	
74-93-1	Methyl Mercaptan	ND	3.1	
75-08-1	Ethyl Mercaptan	ND	3.1	
75-18-3	Dimethyl Sulfide	ND	3.1	
75-15-0	Carbon Disulfide	ND	3.1	
75-33-2	Isopropyl Mercaptan	ND	3.1	
75-66-1	tert-Butyl Mercaptan	ND	3.1	
107-03-9	n-Propyl Mercaptan	ND	3.1	
110-01-0	Tetrahydrothiophene	ND	3.1	

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

RESULTS OF ANALYSIS Page 1 of 1

Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-04-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYO	N STATION / 14424	ALS Project ID: P1600242 ALS Sample ID: P1600242-004
Test Code: Instrument ID: Analyst: Sample Type:	ASTM D 5504-12 Agilent 6890A/GC13/SCD Mike Conejo 6.0 L Silonite Canister		Date Collected: 1/18/16 Time Collected: 18:49 Date Received: 1/19/16 Date Analyzed: 1/19/16
Test Notes: Container ID:	AS00930		Time Analyzed: 11:01 Volume(s) Analyzed: 1.0 ml(s)
	Initial Pressure (psig): -2.43 Fi	inal Pressure (psig):	1.32

Canister Dilution Factor: 1.31

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ppbv	6.6	Quaimer
463-58-1	Carbonyl Sulfide	ND	6.6	
74-93-1	Methyl Mercaptan	ND	3.3	
75-08-1	Ethyl Mercaptan	ND	3.3	
75-18-3	Dimethyl Sulfide	ND	3.3	
75-15-0	Carbon Disulfide	ND	3.3	
75-33-2	Isopropyl Mercaptan	ND	3.3	
75-66-1	tert-Butyl Mercaptan	ND	3.3	
107-03-9	n-Propyl Mercaptan	ND	3.3	
110-01-0	Tetrahydrothiophene	ND	3.3	

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

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company		
Client Sample ID:	AA-05-B-011816		ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON S	TATION / 14424	ALS Sample ID: P1600242-005
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 7890A/GC22/SCD		Time Collected: 18:57
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 11:02
Container ID:	AS00916		Volume(s) Analyzed: 2.0 ml(s)
	Initial Pressure (psig): -3.01 Final	l Pressure (psig):	1.27

Canister Dilution Factor: 1.37

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.9	
463-58-1	Carbonyl Sulfide	ND	6.9	
74-93-1	Methyl Mercaptan	ND	3.4	
75-08-1	Ethyl Mercaptan	ND	3.4	
75-18-3	Dimethyl Sulfide	ND	3.4	
75-15-0	Carbon Disulfide	ND	3.4	
75-33-2	Isopropyl Mercaptan	ND	3.4	
75-66-1	tert-Butyl Mercaptan	ND	3.4	
107-03-9	n-Propyl Mercaptan	ND	3.4	
110-01-0	Tetrahydrothiophene	ND	3.4	

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

RESULTS OF ANALYSIS Page 1 of 1

Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-06-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYO	ON STATION / 14424	ALS Project ID: P1600242 ALS Sample ID: P1600242-006
Test Code: Instrument ID: Analyst: Sample Type:	ASTM D 5504-12 Agilent 6890A/GC13/SCD Mike Conejo 6.0 L Silonite Canister		Date Collected: 1/18/16 Time Collected: 19:07 Date Received: 1/19/16 Date Analyzed: 1/19/16
Test Notes: Container ID:	AS00914		Time Analyzed:11:13Volume(s) Analyzed:1.0 ml(s)
	Initial Pressure (psig): -0.57	Final Pressure (psig):	1.06

Canister Dilution Factor: 1.12

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.6	
463-58-1	Carbonyl Sulfide	ND	5.6	
74-93-1	Methyl Mercaptan	ND	2.8	
75-08-1	Ethyl Mercaptan	ND	2.8	
75-18-3	Dimethyl Sulfide	ND	2.8	
75-15-0	Carbon Disulfide	ND	2.8	
75-33-2	Isopropyl Mercaptan	ND	2.8	
75-66-1	tert-Butyl Mercaptan	ND	2.8	
107-03-9	n-Propyl Mercaptan	ND	2.8	
110-01-0	Tetrahydrothiophene	ND	2.8	

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

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company		
Client Sample ID:	SS-3H-B-011816		ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON	N STATION / 14424	ALS Sample ID: P1600242-007
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 7890A/GC22/SCD		Time Collected: 18:05
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 11:14
Container ID:	AS00997		Volume(s) Analyzed: 2.0 ml(s)
	Initial Pressure (psig): -3.03 Fin	nal Pressure (psig):	1.16

Canister Dilution Factor: 1.36

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.8	
463-58-1	Carbonyl Sulfide	ND	6.8	
74-93-1	Methyl Mercaptan	ND	3.4	
75-08-1	Ethyl Mercaptan	ND	3.4	
75-18-3	Dimethyl Sulfide	ND	3.4	
75-15-0	Carbon Disulfide	ND	3.4	
75-33-2	Isopropyl Mercaptan	ND	3.4	
75-66-1	tert-Butyl Mercaptan	ND	3.4	
107-03-9	n-Propyl Mercaptan	ND	3.4	
110-01-0	Tetrahydrothiophene	ND	3.4	

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

RESULTS OF ANALYSIS Page 1 of 1

Client: Client Sample ID: Client Project ID:	Southern California Gas Company SF-1-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATI	ON / 14424	ALS Project ID: P1600242 ALS Sample ID: P1600242-008
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 6890A/GC13/SCD		Time Collected: 18:17
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 11:25
Container ID:	AS00988		Volume(s) Analyzed: 1.0 ml(s)
	Initial Pressure (psig): -2.73 Final Pres	ssure (psig):	1.10

Canister Dilution Factor: 1.32

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.6	
463-58-1	Carbonyl Sulfide	ND	6.6	
74-93-1	Methyl Mercaptan	ND	3.3	
75-08-1	Ethyl Mercaptan	ND	3.3	
75-18-3	Dimethyl Sulfide	ND	3.3	
75-15-0	Carbon Disulfide	ND	3.3	
75-33-2	Isopropyl Mercaptan	ND	3.3	
75-66-1	tert-Butyl Mercaptan	ND	3.3	
107-03-9	n-Propyl Mercaptan	ND	3.3	
110-01-0	Tetrahydrothiophene	ND	3.3	

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

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company		
Client Sample ID:	SF-2/5-B-011816		ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON	N STATION / 14424	ALS Sample ID: P1600242-009
Test Code:	ASTM D 5504-12		Date Collected: 1/18/16
Instrument ID:	Agilent 6890A/GC13/SCD		Time Collected: 18:26
Analyst:	Mike Conejo		Date Received: 1/19/16
Sample Type:	6.0 L Silonite Canister		Date Analyzed: 1/19/16
Test Notes:			Time Analyzed: 11:36
Container ID:	AS00920		Volume(s) Analyzed: 1.0 ml(s)
	Initial Pressure (psig): -2.43 Fi	inal Pressure (psig):	1.25

Canister Dilution Factor: 1.30

CAS #	Compound	Result	MRL	Data
		ppbV	ppbV	Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.5	
463-58-1	Carbonyl Sulfide	ND	6.5	
74-93-1	Methyl Mercaptan	ND	3.3	
75-08-1	Ethyl Mercaptan	ND	3.3	
75-18-3	Dimethyl Sulfide	ND	3.3	
75-15-0	Carbon Disulfide	ND	3.3	
75-33-2	Isopropyl Mercaptan	ND	3.3	
75-66-1	tert-Butyl Mercaptan	ND	3.3	
107-03-9	n-Propyl Mercaptan	ND	3.3	
110-01-0	Tetrahydrothiophene	ND	3.3	

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

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Client:	Southern California Gas Company	
Client Sample ID:	Method Blank	ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Sample ID: P160119-MB

Test Code:	ASTM D 5504-12	Date Collected: NA		
Instrument ID:	Agilent 6890A/GC13/SCD	Time Collected: NA		
Analyst:	Mike Conejo	Date Received: NA		
Sample Type:	6.0 L Silonite Canister	Date Analyzed: 1/19/16		
Test Notes:		Time Analyzed: 07:01		
		Volume(s) Analyzed: 1.0 ml(s)		

CAS #	Compound	Result	MRL	Data
		ppbV	ppbV	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	
75-18-3	Dimethyl Sulfide	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

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

RESULTS OF ANALYSIS Page 1 of 1

Client:	Southern California Gas Company	
Client Sample ID:	Method Blank	ALS Project ID: P1600242
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Sample ID: P160119-MB

Test Code:	ASTM D 5504-12	Date Collected: NA		
Instrument ID:	Agilent 7890A/GC22/SCD	Time Collected: NA		
Analyst:	Mike Conejo	Date Received: NA		
Sample Type:	6.0 L Silonite Canister	Date Analyzed: 1/19/16		
Test Notes:		Time Analyzed: 06:55		
		Volume(s) Analyzed: 2.0 ml(s)		

CAS #	Compound	Result	MRL	Data
		ppbV	ppbV	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	
75-18-3	Dimethyl Sulfide	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

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

LABORATORY CONTROL SAMPLE SUMMARY

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Southern California Gas Company **Client:** Client Sample ID: Lab Control Sample Client Project ID: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600242 ALS Sample ID: P160119-LCS

Test Code:	ASTM D 5504-12	Date Collected: NA		
Instrument ID:	Agilent 6890A/GC13/SCD	Date Received: NA		
Analyst:	Mike Conejo	Date Analyzed: 1/19/16		
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed: NA ml(s)		
Test Notes:				

					ALS	
CAS #	Compound	Spike Amount	Result	% Recovery	Acceptance	Data
		ppbV	ppbV		Limits	Qualifier
7783-06-4	Hydrogen Sulfide	2,000	1,980	99	65-138	
463-58-1	Carbonyl Sulfide	2,000	1,900	95	60-135	
74-93-1	Methyl Mercaptan	2,000	1,920	96	57-140	

LABORATORY CONTROL SAMPLE SUMMARY

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Southern California Gas Company **Client:** Client Sample ID: Lab Control Sample Client Project ID: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600242 ALS Sample ID: P160119-LCS

Test Code:	ASTM D 5504-12	Date Collected: NA		
Instrument ID:	Agilent 7890A/GC22/SCD	Date Received: NA		
Analyst:	Mike Conejo	Date Analyzed: 1/19/16		
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed: NA ml(s)		
Test Notes:				

					ALS	
CAS #	Compound	Spike Amount	Result	% Recovery	Acceptance	Data
		ppbV	ppbV		Limits	Qualifier
7783-06-4	Hydrogen Sulfide	1,000	965	97	65-138	
463-58-1	Carbonyl Sulfide	1,000	857	86	60-135	
74-93-1	Methyl Mercaptan	1,000	888	89	57-140	

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-01-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		01
Test Code:	EPA TO-15	Date Collected:		
Instrument ID:		Date Received:		
	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16			
Analyst:	Lusine Hakobyan	Date Analyzed:		
Sample Type:	6.0 L Silonite Canister Vo	olume(s) Analyzed:	1.00 Li	ter(s)
Test Notes:				
Container ID:	AS00906			
	Initial Pressure (psig): -5.42 Final Pressure (psig):		er Dilution Fa	ctor: 1.70
CAS #	Compound	Result	MRL	Data
	•	ppbV	ppbV	Qualifier
71-43-2	Benzene	0.17	0.053	
108-88-3	Toluene	0.26	0.23	
100-41-4	Ethylbenzene	ND	0.20	
179601-23-1	m,p-Xylenes	ND	0.20	
95-47-6	o-Xylene	ND	0.20	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-02-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		12
Test Code:	EPA TO-15	Date Collected:	1/18/16	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	1/19/16	
Analyst:	Lusine Hakobyan	Date Analyzed:	1/19/16	
Sample Type:	6.0 L Silonite Canister Vo	lume(s) Analyzed:	1.00 Lit	er(s)
Test Notes: Container ID:	AS00987			
	Initial Pressure (psig): -2.57 Final Pressure (psig):	1.06		
		Caniste	r Dilution Fac	tor: 1.30
CAS #	Compound	Result	MRL	Data
	-	ppbV	ppbV	Qualifier
71-43-2	Benzene	0.20	0.041	
108-88-3	Toluene	0.33	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	0.16	0.15	
95-47-6	o-Xylene	ND	0.15	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-03-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		003
Test Code:	EPA TO-15	Date Collected:	1/18/16	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	1/19/16	
Analyst:	Lusine Hakobyan	Date Analyzed:	1/19/16	
Sample Type:	6.0 L Silonite Canister V	folume(s) Analyzed:	1.00 L	iter(s)
Test Notes:				
Container ID:	AS00950			
	Initial Pressure (psig): -1.59 Final Pressure (psig)		r Dilution Fa	ctor: 1.22
CAS #	Compound	Result	MRL	Data
		ppbV	ppbV	Qualifier
71-43-2	Benzene	0.18	0.038	
108-88-3	Toluene	0.30	0.16	
100-41-4	Ethylbenzene	ND	0.14	
179601-23-1	m,p-Xylenes	0.15	0.14	
95-47-6	o-Xylene	ND	0.14	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-04-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		04
Test Code: Instrument ID: Analyst: Sample Type: Test Notes: Container ID:	EPA TO-15 Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lusine Hakobyan	Date Collected: Date Received: Date Analyzed: Date Analyzed:	1/18/16 1/19/16 1/19/16	
	Initial Pressure (psig): -2.43 Final Pressure (psig):		er Dilution Fa	ator 1.21
		Calliste	r Dilution Fa	ctor: 1.51
CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.22	0.041	
108-88-3	Toluene	0.31	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-05-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		05
Test Code:	EPA TO-15	Date Collected:	1/18/16	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	1/19/16	
Analyst:	Lusine Hakobyan	Date Analyzed:	1/19/16	
Sample Type:	6.0 L Silonite Canister Ve	olume(s) Analyzed:	1.00 Lit	er(s)
Test Notes:				
Container ID:	AS00916			
	Initial Pressure (psig): -3.01 Final Pressure (psig):		r Dilution Fac	tor: 1.37
CAS#	Compound	Result	MRL	Data
0110	Compound	ppbV	ppbV	Qualifier
71-43-2	Benzene	0.23	0.043	
108-88-3	Toluene	0.39	0.18	
100-41-4	Ethylbenzene	ND	0.16	
179601-23-1	m,p-Xylenes	0.19	0.16	
95-47-6	o-Xylene	ND	0.16	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company AA-06-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		06
Test Code:	EPA TO-15	Date Collected:	1/18/16	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received:	1/19/16	
Analyst:	Lusine Hakobyan	Date Analyzed:	1/19/16	
Sample Type:	6.0 L Silonite Canister Vo	lume(s) Analyzed:	1.00 Lit	er(s)
Test Notes:				
Container ID:	AS00914			
	Initial Pressure (psig): -0.57 Final Pressure (psig):	1.06 Caniste	r Dilution Fac	tor: 1.12
CAS #	Compound	Result	MRL	Data
0120	compound	ppbV	ppbV	Qualifier
71-43-2	Benzene	0.21	0.035	
108-88-3	Toluene	0.38	0.15	
100-41-4	Ethylbenzene	ND	0.13	
179601-23-1	m,p-Xylenes	0.20	0.13	
95-47-6	o-Xylene	ND	0.13	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:		ALS Project ID: ALS Sample ID:)7
Test Code: Instrument ID: Analyst: Sample Type: Test Notes: Container ID:	EPA TO-15 Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lusine Hakobyan 6.0 L Silonite Canister Voi AS00997	Date Collected: Date Received: Date Analyzed: lume(s) Analyzed:	1/19/16 1/19/16	er(s)
Container ID.	Initial Pressure (psig): -3.03 Final Pressure (psig):	1.16 Caniste	r Dilution Fac	etor: 1.36
CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.38	0.043	
108-88-3	Toluene	0.36	0.18	
100-41-4	Ethylbenzene	ND	0.16	
179601-23-1	m,p-Xylenes	0.16	0.16	
95-47-6	o-Xylene	ND	0.16	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:		ALS Project ID: ALS Sample ID:		08
Test Code: Instrument ID:	EPA TO-15 Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Collected: Date Received:		
Analyst:	Lusine Hakobyan	Date Analyzed:	1/19/16	
Sample Type: Test Notes:	•	ume(s) Analyzed:		ter(s)
Container ID:	AS00988			
	Initial Pressure (psig): -2.73 Final Pressure (psig):	1.10 Caniste	r Dilution Fac	etor: 1.32
CAS #	Compound	Result	MRL	Data
	•	ppbV	ppbV	Qualifier
71-43-2	Benzene	0.15	0.041	
108-88-3	Toluene	ND	0.18	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

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

RESULTS OF ANALYSIS

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Client: Client Sample ID: Client Project ID:	Southern California Gas Company SF-2/5-B-011816 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	ALS Project ID: ALS Sample ID:		09
Test Code: Instrument ID: Analyst: Sample Type: Test Notes: Container ID:	EPA TO-15 Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lusine Hakobyan	Date Collected: Date Received: Date Analyzed: olume(s) Analyzed:	1/18/16 1/19/16 1/19/16	
	Initial Pressure (psig): -2.43 Final Pressure (psig):		r Dilution Fa	ctor: 1.30
CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.15	0.041	
108-88-3	Toluene	0.20	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

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

RESULTS OF ANALYSIS

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Client:	Southern California Gas Company			
Client Sample ID:	Method Blank	ALS Project ID: P1	600242	
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 144	ALS Sample ID: P160119-MB		
Test Code:	EPA TO-15	Date Collected: NA	A	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received: NA	A	
Analyst:	Lusine Hakobyan	Date Analyzed: 1/	19/16	
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed:	1.00 Liter(s)	
Test Notes:				

Canister Dilution Factor: 1.00

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.

SURROGATE SPIKE RECOVERY RESULTS

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Client:Southern California Gas CompanyClient Project ID:SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600242

Test Code:	EPA TO-15	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date(s) Collected: 1/18/16
Analyst:	Lusine Hakobyan	Date(s) Received: 1/19/16
Sample Type:	6.0 L Silonite Canister(s)	Date(s) Analyzed: 1/19/16
Test Notes:		

		1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene		
Client Sample ID	ALS Sample ID	Percent	Percent	Percent	Acceptance	Data
		Recovered	Recovered	Recovered	Limits	Qualifier
Method Blank	P160119-MB	100	102	102	70-130	
Lab Control Sample	P160119-LCS	97	99	104	70-130	
AA-01-B-011816	P1600242-001	100	100	103	70-130	
AA-02-B-011816	P1600242-002	101	101	105	70-130	
AA-03-B-011816	P1600242-003	100	100	104	70-130	
AA-04-B-011816	P1600242-004	100	99	105	70-130	
AA-05-B-011816	P1600242-005	100	100	104	70-130	
AA-06-B-011816	P1600242-006	101	100	105	70-130	
SS-3H-B-011816	P1600242-007	100	99	104	70-130	
SF-1-B-011816	P1600242-008	100	100	105	70-130	
SF-2/5-B-011816	P1600242-009	101	100	105	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.

LABORATORY CONTROL SAMPLE SUMMARY

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Client:	Southern California Gas Company		
Client Sample ID:	Lab Control Sample	ALS Project ID: P1600242	
Client Project ID:	SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424	4 ALS Sample ID: P160119-LCS	
Test Code:	EPA TO-15	Date Collected: NA	
Instrument ID:	Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16	Date Received: NA	
Analyst:	Lusine Hakobyan	Date Analyzed: 1/19/16	
Sample Type:	6.0 L Silonite Canister	Volume(s) Analyzed: 0.125 Liter(s)	
Test Notes:			

				ALS		
CAS #	Compound	Spike Amount	Result	% Recovery	Acceptance	Data
		ppbV	ppbV		Limits	Qualifier
71-43-2	Benzene	70.8	56.0	79	61-110	
108-88-3	Toluene	57.9	51.4	89	67-117	
100-41-4	Ethylbenzene	50.2	47.9	95	69-123	
179601-23-1	m,p-Xylenes	98.6	92.6	94	67-125	
95-47-6	o-Xylene	48.4	45.6	94	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.