# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Dr., Diamond Bar, CA 91765-4182

# MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

Page 1 of 3

TO:	Cher Snyder	LABORATORY NO:	1534328
	Assistant DEO		MSF-8-139
	Engineering and Compliance	REFERENCE NO:	15QM2AC
SAM	PLE DESCRIPTION:	DATE SAMPLED:	12/08/15
	VeriAirFlex Tedlar bag #2048		
		DATE RECEIVED:	12/09/15
		DATE ANALYZED:	12/9/15
SAM	PLE LOCATION:		Yadira De Haro-Hammock
	So Cal Gas Company	ANALYZED BY:	Ningqing Ran
	12801 Tampa Ave		
	Northridge, CA 91326	REQUESTED BY:	Kim Bolander

#### ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) - Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Note: See

See attached for VOC speciation results.

Methane (CH<sub>4</sub>), ethane ( $C_2H_6$ ), carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) by SCAQMD Method 25.1 (TCA FID)

Compound	Conc. (ppm)		
methane	17		
ethane, ppmvC	< 1		
carbon monoxide	< 1		
carbon dioxide	467		

Date Approved: 12/22/15

Approved By:

Rudy Eden, Sr. Manager Laboratory Services Branch

(909) 396-2391

**LAB NO:** 1534328

Location: So Cal Gas Company

## ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) - Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Sample Date	12/08/15	
Tedlar bag	2048	Ambient Air
Sampling Location	So Cal Gas Company	
Total NMOC, ppbC	1380	100-700 ppbC
Compound	Conc. (ppbv)	Conc. (ppbv)
ethylene		0.7-4.1
acetylene	2.2*	
propane	35	0.4-5.0
propylene	0.3	0.2-0.7
isobutane	4.2	0.2-0.9
n-butane	4.8	0.3-1.7
1-butene	0.4	0.1-0.3
trans-2-butene	N.D.	
cis-2-butene	N.D.	
isopentane	1.8	
1-pentene	N.D.	
n-pentane	1.5	0.1-0.6
isoprene	0.3	
trans-2-pentene	N.D.	
cis-2-pentene	N.D.	
2,2-dimethylbutane	0.1	
cyclopentane	0.2	
2,3-dimethylbutane	0.2	
2-methylpentane	0.7	
3-methylpentane	0.4	
1-hexene	0.3	<0.1-0.1
n-hexane	0.4	0.1-0.2
methylcyclopentane	0.4	
2,4-dimethylpentane	0.1	
benzene	0.3	0.1-0.5
cyclohexane	0.3	
2-methylhexane	0.2	
2,3-dimethylpentane	0.2	
3-methylhexane	0.2	
2,2,4-trimethylpentane	0.3	
n-heptane	0.2	0.1-0.2
methylcyclohexane	0.4	

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LAB NO: 1534328

Location: So Cal Gas Company

### ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) - Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Sample Date	12/08/15	
Tedlar bag	2048	Ambient Air
Sampling Location	So Cal Gas Company	
Total NMOC, ppbC	1380	100-700 ppbC

Compound	Conc. (ppbv)	Conc. (ppbv)
2,3,4-trimethylpentane	0.2	
toluene	1.1	0.1-0.6
2-methylheptane	0.1	
3-methylheptane	0.1	
n-octane	0.2	< 0.1-0.3
ethylbenzene	0.2	0.1-0.2
m+p-xylenes	0.8	0.1-0.2
styrene	< 0.1	<0.1-0.2
o-xylene	0.2	0.1-0.2
n-nonane	0.1	< 0.1-0.1
isopropylbenzene	N.D.	
n-propylbenzene	< 0.1	
m-ethyltoluene	0.2	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	< 0.1	
o-ethyltoluene	<0.1	
1,2,4-trimethylbenzene	0.3	
n-decane	< 0.1	<0.1-0.1
1,2,3-trimethylbenzene	< 0.1	
m-diethylbenzene	N.D.	
p-diethylbenzene	< 0.1	
n-undecane	< 0.1	< 0.1
n-dodecane	N.D.	< 0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

<sup>\*</sup> reported value is for acetylene and ethylene

# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

	DISTRICT
	INVOICE 5
LA	BORATC



COLIDORALA	AB: X OTHER:	: 🗆			
SOURCE NAME:	So Cal Gas Company (A	Aliso Canyon)		D. Io.	800128
Source Address:	12801 Tampa A	venue	City	Northr	idge
Mailing Address:	same		ity:	Zip	91326
Contact Person:	John Clarke	Title: Prin	ciple AQ Speci	alist Tel: _(	818)700-3812
Analysis Requested l	by: Kim Bol	ander	Date:	12/9	/15
Approved by:	AM. Anden_ 0	ffice:	Compliance	Budget #:	50-375
REASON REQUES	TED: Court/Hearing Board	Permit	Pending	Hazardous/I	oxic Spill
Suspected Violation	Rule(s)	402	Other	Cal H&S	Code 41700
Sample Collected by	: Kim Bolander/Alemayel Solomon	Date:	12/8/15	Time:	2048
Specify the description	on and location where the	sample was co	llected:		
Analysis Requested:	GCMS/odors, sulfur com	Ssible			
, Relinquished		7	m/Agency	Date	Time
	42	SCAG	MD LAB	12/9/15	13:03
	del				15.05