

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

**MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS**


TO: Cher Snyder Assistant DEO Engineering and Compliance	LABORATORY NO: <u>1603613</u>
	REFERENCE NO: <u>GC6-3-74</u>
SAMPLE DESCRIPTION: 24 hour Sample Canister: 54088	DATE SAMPLED: <u>01/31/16</u>
	DATE RECEIVED: <u>02/05/16</u>
	DATE ANALYZED: <u>02/05/16</u>
SAMPLE LOCATION: Highlands Community Pool Parking Lot	ANALYZED BY: <u>Yang Song</u>
	REQUESTED BY: <u>Sumner Wilson</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Volatile Organic Compounds (VOC) by Gas Chromatography(GC)
and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 3/24/16

Approved By: 
Rudy Eden, Sr. Manager
Laboratory Services Branch
(909) 396-2391

LAB NO: 1603613

Location: Highlands Community

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and
Flame Ionization Detection (FID)

Sample Date 01/31/16
Canister 54088
Sampling Location **Highlands Community** **Ambient Air**
Pool Parking Lot
Total NMOC, ppbC 1850 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.3	0.7-4.1
acetylene	0.3	
propane	4.5	0.4-5.0
propylene	0.1	0.2-0.7
isobutane	0.5	0.2-0.9
n-butane	0.9	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	4.4	
1-pentene	<0.1	
n-pentane	258	0.1-0.6
isoprene	1.1	
trans-2-pentene	<0.1	
cis-2-pentene	<0.1	
2,2-dimethylbutane	<0.1	
cyclopentane	0.2	
2,3-dimethylbutane	<0.1	
2-methylpentane	0.3	
3-methylpentane	0.4	
1-hexene	<0.1	<0.1-0.1
n-hexane	1.0	0.1-0.2
methylcyclopentane	0.4	
2,4-dimethylpentane	0.1	
benzene	0.1	0.1-0.5
cyclohexane	0.2	
2-methylhexane	0.5	
2,3-dimethylpentane	0.3	
3-methylhexane	0.7	
2,2,4-trimethylpentane	0.1	
n-heptane	0.3	0.1-0.2
methylcyclohexane	<0.1	

LAB NO: 1603613

Location: Highlands Community

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Quantitation of Organic Compounds by Gas Chromatography(GC) and
Flame Ionization Detection (FID)

Sample Date 01/31/16
Canister 54088
Sampling Location **Highlands Community** **Ambient Air**
Pool Parking Lot
Total NMOC, ppbC 1850 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	0.1	
toluene	17	0.1-0.6
2-methylheptane	<0.1	
3-methylheptane	<0.1	
n-octane	0.2	<0.1-0.3
ethylbenzene	<0.1	0.1-0.2
m+p-xylenes	0.2	0.1-0.2
styrene	0.9	<0.1-0.2
o-xylene	<0.1	0.1-0.2
n-nonane	<0.1	<0.1-0.1
isopropylbenzene	<0.1	
n-propylbenzene	<0.1	
m-ethyltoluene	<0.1	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	<0.1	
o-ethyltoluene	<0.1	
1,2,4-trimethylbenzene	<0.1	
n-decane	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	0.2	
m-diethylbenzene	<0.1	
p-diethylbenzene	<0.1	
n-undecane	<0.1	<0.1
n-dodecane	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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)

<u>Compound</u>	<u>Conc. (ppb)</u>	<u>Typical Ambient Air Conc. (ppb)</u>
isoprene	N.D.	
acetylene+ethylene	1.1	1.4-8.3
ethane	48	1.0-5.0
propylene	0.2	0.5-2.0
propane	4.6	1.3-16.0
isobutane	0.6	0.8-3.7
1-butene	N.D.	0.1-0.3
n-butane	1.1	1.2-6.8
n-pentane	289	0.6-2.9
1-hexene	N.D.	<0.1-0.1
n-hexane	1.1	0.2-1.0
n-heptane	0.4	0.1-0.6
n-octane	0.3	<0.1-0.3
n-nonane	0.4	<0.1-0.1
n-decane	<0.1	<0.1-0.1
n-undecane	<0.1	<0.1
n-dodecane	N.D.	<0.1

Other compounds (+/- 50% estimated using response factor for benzene)

cyclopentane	0.2
isopentane	4.3
2,3-dimethylbutane	0.1
2-methylpentane	0.4
3-methylpentane	0.5
methylcyclopentane	0.6
cyclohexane	0.4
2-methylhexane	0.6
methylcyclohexane	14
allyl chloride	2.3
acetic acid, methyl ester	60
hexanal	9.7
limonene	0.9

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT
 INVOICE
 LAP AL
 LABORATORY

WO #: 1603613



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Southern California Gas Co. I.D. No. _____

Source Address: 12801 Tampa Ave City: Porter Ranch

Mailing Address: _____ City: _____ Zip: 91326

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Sumner Wilson Date: 2/5/2016

Approved by: Jason Low Office: _____ Budget #: 44716

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) _____ Other

Sample Collected by: R Wimmer/ Q Zhou Date: 2/4/2016 Time: 10:30am

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54088	1-31-16 / 00:00 / 24 hours	-30	-12"
Highlands Community *	22	2-3-16 / 00:00 / 24hours		
		*Invalid due to contamination		

Relinquished by	Received by	Firm/Agency	Date	Time
<i>Zhouqian</i>	<i>JL</i>	SCAQMD Lab	2/5/16	12:15

Remarks: 1:3 scheduled samples from trailer

Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)