

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: 1603315

REFERENCE NO: GC6-3-73

SAMPLE DESCRIPTION:
Triggered Samples
Canisters: E4300
53387
54610

DATE SAMPLED: 01/31/16

DATE RECEIVED: 02/02/16

DATE ANALYZED: 02/04/16

SAMPLE LOCATION:
Highlands Community
Pool Parking Lot


ANALYZED BY: Yang Song

REQUESTED BY: Sumner Wilson

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: 2/11/16

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

LAB NO: 1603315

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	01/31/16	
Canister	E4300	53387	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
	Pool Parking Lot	Pool Parking Lot	
Total NMOC, ppbC	3660	1480	100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.2	0.2	0.7-4.1
acetylene	0.4	0.3	
propane	120	46	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	14	5.4	0.2-0.9
n-butane	17	6.5	0.3-1.7
1-butene	0.2	<0.1	0.1-0.3
trans-2-butene	N.D.	<0.1	
cis-2-butene	N.D.	N.D.	
isopentane	6.0	2.8	
1-pentene	<0.1	N.D.	
n-pentane	23	16	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	<0.1	<0.1	
cis-2-pentene	N.D.	<0.1	
2,2-dimethylbutane	0.1	<0.1	
cyclopentane	0.3	0.1	
2,3-dimethylbutane	0.2	<0.1	
2-methylpentane	0.9	0.4	
3-methylpentane	0.6	0.2	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	1.0	0.4	0.1-0.2
methylcyclopentane	0.9	0.4	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.5	0.2	0.1-0.5
cyclohexane	0.8	0.3	
2-methylhexane	0.2	0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.3	0.1	
2,2,4-trimethylpentane	0.2	<0.1	
n-heptane	0.3	0.1	0.1-0.2
methylcyclohexane	0.8	0.4	

LAB NO: 1603315

Location: Highlands Community

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	2.1	1.3	0.1-0.6
2-methylheptane	<0.1	<0.1	
3-methylheptane	<0.1	<0.1	
n-octane	0.1	<0.1	<0.1-0.3
ethylbenzene	<0.1	<0.1	0.1-0.2
m+p-xylenes	0.2	<0.1	0.1-0.2
styrene	<0.1	<0.1	<0.1-0.2
o-xylene	<0.1	<0.1	0.1-0.2
n-nonane	<0.1	<0.1	<0.1-0.1
isopropylbenzene	<0.1	<0.1	
n-propylbenzene	<0.1	N.D.	
m-ethyltoluene	<0.1	<0.1	
p-ethyltoluene	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	
o-ethyltoluene	<0.1	N.D.	
1,2,4-trimethylbenzene	<0.1	0.1	
n-decane	<0.1	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	<0.1	
m-diethylbenzene	<0.1	<0.1	
p-diethylbenzene	<0.1	<0.1	
n-undecane	<0.1	<0.1	<0.1
n-dodecane	<0.1	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

LAB NO: 1603315

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 54610
Sampling Location **Highlands Community** **Ambient Air**
Pool Parking Lot
Total NMOC, ppbC 7240 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.5	0.7-4.1
acetylene	0.4	
propane	238	0.4-5.0
propylene	<0.1	0.2-0.7
isobutane	28	0.2-0.9
n-butane	33	0.3-1.7
1-butene	0.3	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	11	
1-pentene	<0.1	
n-pentane	36	0.1-0.6
isoprene	<0.1	
trans-2-pentene	N.D.	
cis-2-pentene	N.D.	
2,2-dimethylbutane	0.3	
cyclopentane	0.7	
2,3-dimethylbutane	0.4	
2-methylpentane	1.7	
3-methylpentane	1.1	
1-hexene	<0.1	<0.1-0.1
n-hexane	2.0	0.1-0.2
methylcyclopentane	1.8	
2,4-dimethylpentane	0.1	
benzene	0.9	0.1-0.5
cyclohexane	1.6	
2-methylhexane	0.4	
2,3-dimethylpentane	0.2	
3-methylhexane	0.4	
2,2,4-trimethylpentane	0.4	
n-heptane	0.6	0.1-0.2
methylcyclohexane	1.7	

LAB NO: 1603315

Location: Highlands Community

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Canister 54610
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Pool Parking Lot
Total NMOC, ppbC 7240 100-700 ppbC

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2,3,4-trimethylpentane	<0.1	
toluene	3.1	0.1-0.6
2-methylheptane	0.2	
3-methylheptane	<0.1	
n-octane	0.2	<0.1-0.3
ethylbenzene	<0.1	0.1-0.2
m+p-xylenes	0.4	0.1-0.2
styrene	0.1	<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	<0.1	
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

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

DI
 IN
 LA
LABC

WO #: 1603315



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: 2/2/16

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: Robert Wimmer Date: 2/2/16 Time: 12:00

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	E4300	1-31-16 / 15:55 / 5 min	-30	-1"
Highlands Community	53387	1-31-16 / 16:46 / 5 min	-30	-1.5"
Highlands Community	54610	1-31-16 / 17:26 / 5 min	-30	-2"

Relinquished by	Received by	Firm/Agency	Date	Time
<i>RW</i>	<i>[Signature]</i>	SCAQMD Lab	2-2-16	1615

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Thermo 55i NMHC.

Trigger is set to 35ppm

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