

**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:** 1601965

**REFERENCE NO:** GC6-3-71  
1/16/2016 and

**SAMPLE DESCRIPTION:**  
Triggered Samples 53438  
53396  
54152

**DATE SAMPLED:** 1/17/2016

**DATE RECEIVED:** 01/19/16

**DATE ANALYZED:** 01/20/16

**SAMPLE LOCATION:**  
Highlands Community  
Pool Parking Lot

**ANALYZED BY:** Yang Song

**REQUESTED BY:** Sumner Wilson

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**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: 1/22/16 Approved By:   
Rudy Edep, Sr. Manager  
Laboratory Services Branch  
(909) 396-2391

**LAB NO: 1601965****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	01/16/16	01/17/16	
Canister	53438	53396	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
<b>Total NMOC, ppbC</b>	1870	1480	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	0.2	0.3	0.7-4.1
acetylene	0.2	0.4	
propane	54	38	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	6.2	4.4	0.2-0.9
n-butane	7.2	5.2	0.3-1.7
1-butene	<0.1	<0.1	0.1-0.3
trans-2-butene	<0.1	<0.1	
cis-2-butene	<0.1	<0.1	
isopentane	3.3	3.8	
1-pentene	<0.1	<0.1	
n-pentane	18	41	0.1-0.6
isoprene	0.1	0.2	
trans-2-pentene	<0.1	N.D.	
cis-2-pentene	N.D.	N.D.	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.1	0.1	
2,3-dimethylbutane	<0.1	<0.1	
2-methylpentane	0.4	0.3	
3-methylpentane	0.3	0.2	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.5	0.4	0.1-0.2
methylcyclopentane	0.4	0.4	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.3	0.2	0.1-0.5
cyclohexane	0.4	0.3	
2-methylhexane	0.1	0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.1	0.2	
2,2,4-trimethylpentane	0.1	0.1	
n-heptane	0.2	0.2	0.1-0.2
methylcyclohexane	0.4	0.3	

**LAB NO: 1601965****Location: Highlands Community****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

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2,3,4-trimethylpentane	<0.1	<0.1	
toluene	1.6	3.1	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	0.1	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	<0.1	
m-ethyltoluene	<0.1	N.D.	
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



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**Location: Highlands Community**

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 Quantitation of Organic Compounds by Gas Chromatography(GC) and  
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Sample Date	01/17/16	
Canister	54152	
<b>Sampling Location</b>	<b>Highlands Community</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	3730	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	0.4	0.7-4.1
acetylene	0.4	
propane	110	0.4-5.0
propylene	<0.1	0.2-0.7
isobutane	13	0.2-0.9
n-butane	15	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	N.D.	
cis-2-butene	N.D.	
isopentane	6.1	
1-pentene	<0.1	
n-pentane	34	0.1-0.6
isoprene	0.2	
trans-2-pentene	<0.1	
cis-2-pentene	N.D.	
2,2-dimethylbutane	0.1	
cyclopentane	0.3	
2,3-dimethylbutane	0.2	
2-methylpentane	0.8	
3-methylpentane	0.5	
1-hexene	<0.1	<0.1-0.1
n-hexane	0.9	0.1-0.2
methylcyclopentane	0.8	
2,4-dimethylpentane	<0.1	
benzene	0.5	0.1-0.5
cyclohexane	0.8	
2-methylhexane	0.2	
2,3-dimethylpentane	<0.1	
3-methylhexane	0.3	
2,2,4-trimethylpentane	0.2	
n-heptane	0.4	0.1-0.2
methylcyclohexane	0.9	

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<b>Total NMOC, ppbC</b>	3730	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	<0.1	
toluene	2.7	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	<0.1	<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	N.D.	
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

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

DISTRICT  
 INVOICE S  
 LAP AUDI  
LABORATO

WO #: 1601965



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: 12/31/15  
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: S Boddeker / S Wilson Date: 1/19/16 Time: 13:30

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	53438	1-16-16 / 23:37 / 5 min	-32	-4
Highlands Community	53396	1-17-16 / 04:55 / 5 min	-35	-5
Highlands Community	54152	1-17-16 / <sup>06:27</sup> <del>06:29</del> / 5 min	-29	0

Relinquished by	Received by	Firm/Agency	Date	Time
Steve Boddeker <i>B</i>	<i>SW</i>	SCAQMD Lab	1-19-16	15:43

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)