

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>1601411</u>
	REFERENCE NO: <u>GC6-3-70</u>
SAMPLE DESCRIPTION: Canisters 54534 54532 E3839 E5753	DATE SAMPLED: <u>1/12/2016</u>
	DATE RECEIVED: <u>01/14/16</u>
SAMPLE LOCATION: Highlands Community Pool Parking Lot	DATE ANALYZED: <u>01/14/16</u>
	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: 1/20/16

Approved By: 

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

LAB NO: 1601411

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	01/12/16	01/12/16	
Canister	54534	54532	Ambient Air
Sampling Location	Highlands Community	Highlands Community	
Total NMOC, ppbC	1600	2850	100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.3	0.2	0.7-4.1
acetylene	0.3	0.3	
propane	43	83	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	4.8	9.3	0.2-0.9
n-butane	5.6	11	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	3.1	3.9	
1-pentene	<0.1	<0.1	
n-pentane	24	11	0.1-0.6
isoprene	0.1	<0.1	
trans-2-pentene	N.D.	N.D.	
cis-2-pentene	<0.1	N.D.	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.1	0.2	
2,3-dimethylbutane	<0.1	0.1	
2-methylpentane	0.3	0.6	
3-methylpentane	0.2	0.4	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.4	0.7	0.1-0.2
methylcyclopentane	0.4	0.6	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.3	0.4	0.1-0.5
cyclohexane	0.4	0.6	
2-methylhexane	0.1	0.2	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.2	0.2	
2,2,4-trimethylpentane	0.1	0.2	

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
n-heptane	0.2	0.3	0.1-0.2
methylcyclohexane	0.4	0.7	
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	2.6	1.4	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	0.2	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	<0.1	
p-ethyltoluene	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	
o-ethyltoluene	<0.1	<0.1	
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: 1601411

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	01/12/16	01/12/16	
Canister	E3839	E5753	Ambient Air
Sampling Location	Highlands Community	Highlands Community	
Total NMOC, ppbC	4660	3230	100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.4	0.4	0.7-4.1
acetylene	0.6	0.5	
propane	138	96	0.4-5.0
propylene	<0.1	0.2	0.2-0.7
isobutane	16	11	0.2-0.9
n-butane	18	12	0.3-1.7
1-butene	0.2	<0.1	0.1-0.3
trans-2-butene	<0.1	<0.1	
cis-2-butene	<0.1	<0.1	
isopentane	6.2	4.7	
1-pentene	<0.1	<0.1	
n-pentane	7.0	6.3	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	N.D.	N.D.	
cis-2-pentene	N.D.	N.D.	
2,2-dimethylbutane	0.2	0.1	
cyclopentane	0.3	0.2	
2,3-dimethylbutane	0.2	0.2	
2-methylpentane	1.0	0.7	
3-methylpentane	0.6	0.4	
1-hexene	N.D.	<0.1	<0.1-0.1
n-hexane	1.1	0.8	0.1-0.2
methylcyclopentane	1.0	0.7	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.6	0.5	0.1-0.5
cyclohexane	1.0	0.7	
2-methylhexane	0.2	0.2	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.3	0.2	
2,2,4-trimethylpentane	0.3	0.2	

LAB NO: 1601411

Location: Highlands Community

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n-heptane	0.4	0.3	0.1-0.2
methylcyclohexane	1.0	0.8	
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	1.2	0.9	0.1-0.6
2-methylheptane	0.1	<0.1	
3-methylheptane	<0.1	<0.1	
n-octane	0.2	0.1	<0.1-0.3
ethylbenzene	<0.1	<0.1	0.1-0.2
m+p-xylenes	0.3	0.2	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	<0.1	
p-ethyltoluene	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	
o-ethyltoluene	<0.1	<0.1	
1,2,4-trimethylbenzene	<0.1	0.3	
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

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

DISTRICT INFORMATION
 INVOICE
 LAP AUI
 LABORAT

WO #: 1601411



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: Steve Boddeker Date: 1/13/16 Time: 12:45

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54534	1-12-16/15:52/5 min	-31	-1
Highlands Community	54532	1-12-16/16:41/5 min	-35	-5
Highlands Community	E3839	1-12-16/17:17/5 min	-30	-2
Highlands Community	E5753	1-12-16/ ^{19:16} 12:04 /5 min	-30	-2
		SB		

Relinquished by	Received by	Firm/Agency	Date	Time
Steve Boddeker SB	<i>[Signature]</i>	SCAQMD Lab	1/14/16	09:45

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Thermo 55i NMHC.
 Trigger is set to 20ppm
 Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)