

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


**MONITORING & ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

<b>TO:</b> Cher Snyder Assistant DEO Engineering and Compliance	<b>LABORATORY NO:</b> <u>1602617</u>
<b>SAMPLE DESCRIPTION:</b> Triggered Samples Canisters: 54702 53412 54719	<b>REFERENCE NO:</b> <u>GC6-3-72</u> <u>01/21/16</u> <b>DATE SAMPLED:</b> <u>and 01/22/16</u>
<b>SAMPLE LOCATION:</b> Porter Ranch Community Elementary School	<b>DATE RECEIVED:</b> <u>01/26/16</u> <b>DATE ANALYZED:</b> <u>01/28/16</u>
	<b>ANALYZED BY:</b> <u>Yang Song</u>
	<b>REQUESTED BY:</b> <u>Sumner Wilson</u>

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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: 2/2/16 Approved By:   
Rudy Eden, Sr. Manager  
Laboratory Services Branch  
(909) 396-2391

**LAB NO: 1602617****Location: Porter Ranch Community Elementary School (PRCES)****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	01/21/16	01/22/16	
Canister	54702	53412	
<b>Sampling Location</b>	<b>PRCES</b>	<b>PRCES</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	1310	1280	100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.6	0.4	0.7-4.1
acetylene	0.8	0.7	
propane	43	42	0.4-5.0
propylene	0.1	<0.1	0.2-0.7
isobutane	5.2	5.1	0.2-0.9
n-butane	6.4	6.2	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	2.9	2.6	
1-pentene	<0.1	<0.1	
n-pentane	1.4	1.3	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	<0.1	<0.1	
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	0.4	
3-methylpentane	0.2	0.2	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.4	0.3	0.1-0.2
methylcyclopentane	0.3	0.3	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.3	0.2	0.1-0.5
cyclohexane	0.3	0.3	
2-methylhexane	<0.1	<0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.1	<0.1	
2,2,4-trimethylpentane	<0.1	<0.1	
n-heptane	0.1	0.1	0.1-0.2
methylcyclohexane	0.3	0.3	

**LAB NO: 1602617**

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<b>Total NMOC, ppbC</b>	1310	1280	100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	0.4	0.3	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	<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: 1602617

Location: Porter Ranch Community Elementary School (PRCES)

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

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

Sample Date 01/22/16  
Canister 54719  
**Sampling Location** **PRCES** **Ambient Air**

**Total NMOC, ppbC** 851 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.5	0.7-4.1
acetylene	0.6	
propane	28	0.4-5.0
propylene	0.1	0.2-0.7
isobutane	3.4	0.2-0.9
n-butane	4.3	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	2.0	
1-pentene	<0.1	
n-pentane	0.9	0.1-0.6
isoprene	<0.1	
trans-2-pentene	<0.1	
cis-2-pentene	<0.1	
2,2-dimethylbutane	<0.1	
cyclopentane	<0.1	
2,3-dimethylbutane	<0.1	
2-methylpentane	0.3	
3-methylpentane	0.2	
1-hexene	<0.1	<0.1-0.1
n-hexane	0.2	0.1-0.2
methylcyclopentane	0.2	
2,4-dimethylpentane	<0.1	
benzene	0.2	0.1-0.5
cyclohexane	0.2	
2-methylhexane	<0.1	
2,3-dimethylpentane	<0.1	
3-methylhexane	<0.1	
2,2,4-trimethylpentane	<0.1	
n-heptane	<0.1	0.1-0.2
methylcyclohexane	0.2	

LAB NO: 1602617

Location: Porter Ranch Community Elementary School (PRCES)

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Canister 54719  
Sampling Location **PRCES** **Ambient Air**

**Total NMOC, ppbC** 851 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	
toluene	0.3	0.1-0.6
2-methylheptane	<0.1	
3-methylheptane	<0.1	
n-octane	<0.1	<0.1-0.3
ethylbenzene	<0.1	0.1-0.2
m+p-xylenes	0.1	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**

WO #: 1602617

DIS  
 INV  
 LAI  
LABORATORY NO.



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: 1/26/15

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: Robert Wimmer Date: 1/22/16 Time: 12:00

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Porter Ranch Community Elementary School	54702	1-21-16 / 19:09 / 5 min	-30"	0
Porter Ranch Community Elementary School	53412	1-22-16 / 00:10 / 5 min	-30"	0
Porter Ranch Community Elementary School	54719	1-22-16 / 03:09 / 5 min	-30'	0

Relinquished by	Received by	Firm/Agency	Date	Time
R. Wimmer	<i>Steve Barber</i>	SCAQMD Lab	1/26/16	12:20pm

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Mocon NMHC.

Trigger is set to 20ppm

Porter Ranch Community School Elementary – 5 Sesnon Blvd, Porter Ranch, CA 91326

GPS (34.293369, -118.580505)