

**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:** 1536432

**REFERENCE NO:** GC6-3-67

**SAMPLE DESCRIPTION:**

Canisters 54686  
54053  
22474

**DATE SAMPLED:** 12/27/15 & 12/28/15

**DATE RECEIVED:** 12/30/15

**DATE ANALYZED:** 12/31/15

**SAMPLE LOCATION:**

Porter Ranch  
Elementary School

**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: 1/19/16

Approved By: 

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

**LAB NO:** 1536432

**Location:** Porter Ranch Elem.

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

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

Sample Date	12/28/15	12/28/15	12/28/15	
Canister	54686	54053	22474	<b>Ambient Air</b>
Sampling Location	Porter Ranch Elem.	Porter Ranch Elem.	Porter Ranch Elem.	

<b>Total NMOC, ppbC</b>	424	155	1600*	100-700 ppbC
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<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	<0.1	0.3	0.5	0.7-4.1
acetylene	0.2	0.5	0.6	
propane	12	38	46	0.4-5.0
propylene	<0.1	<0.1	<0.1	0.2-0.7
isobutane	1.2	4.2	5.0	0.2-0.9
n-butane	1.4	5.1	5.8	0.3-1.7
1-butene	<0.1	<0.1	<0.1	0.1-0.3
trans-2-butene	N.D.	<0.1	<0.1	
cis-2-butene	N.D.	<0.1	<0.1	
isopentane	0.5	2.1	2.5	
1-pentene	N.D.	N.D.	N.D.	
n-pentane	0.3	1.1	1.2	0.1-0.6
isoprene	N.D.	<0.1	N.D.	
trans-2-pentene	N.D.	N.D.	N.D.	
cis-2-pentene	<0.1	N.D.	N.D.	
2,2-dimethylbutane	<0.1	<0.1	<0.1	
cyclopentane	<0.1	0.1	0.1	
2,3-dimethylbutane	<0.1	<0.1	<0.1	
2-methylpentane	<0.1	0.3	0.4	
3-methylpentane	<0.1	0.2	0.2	
1-hexene	N.D.	N.D.	N.D.	<0.1-0.1
n-hexane	<0.1	0.3	0.3	0.1-0.2
methylcyclopentane	<0.1	0.3	0.3	
2,4-dimethylpentane	N.D.	<0.1	<0.1	
benzene	<0.1	0.2	0.3	0.1-0.5
cyclohexane	<0.1	0.3	0.3	
2-methylhexane	<0.1	<0.1	<0.1	
2,3-dimethylpentane	<0.1	<0.1	<0.1	
3-methylhexane	<0.1	<0.1	<0.1	
2,2,4-trimethylpentane	<0.1	<0.1	0.1	

**LAB NO:** 1536432

**Location:** Porter Ranch Elem.

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

Quantitation of Organic Compounds by Gas Chromatography(GC) and  
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n-heptane	<0.1	0.1	0.1	0.1-0.2
methylcyclohexane	<0.1	0.3	0.4	
2,3,4-trimethylpentane	<0.1	<0.1	<0.1	
toluene	<0.1	0.2	0.3	0.1-0.6
2-methylheptane	<0.1	<0.1	<0.1	
3-methylheptane	<0.1	<0.1	<0.1	
n-octane	<0.1	<0.1	<0.1	<0.1-0.3
ethylbenzene	<0.1	<0.1	<0.1	0.1-0.2
m+p-xylenes	<0.1	<0.1	0.1	0.1-0.2
styrene	N.D.	<0.1	<0.1	<0.1-0.2
o-xylene	N.D.	<0.1	<0.1	0.1-0.2
n-nonane	<0.1	<0.1	<0.1	<0.1-0.1
isopropylbenzene	N.D.	<0.1	<0.1	
n-propylbenzene	N.D.	N.D.	<0.1	
m-ethyltoluene	N.D.	<0.1	<0.1	
p-ethyltoluene	N.D.	N.D.	<0.1	
1,3,5-trimethylbenzene	N.D.	<0.1	<0.1	
o-ethyltoluene	N.D.	N.D.	<0.1	
1,2,4-trimethylbenzene	N.D.	<0.1	<0.1	
n-decane	N.D.	<0.1	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	N.D.	<0.1	<0.1	
m-diethylbenzene	<0.1	<0.1	<0.1	
p-diethylbenzene	N.D.	<0.1	<0.1	
n-undecane	<0.1	<0.1	<0.1	<0.1
n-dodecane	<0.1	N.D.	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

\* NMOC consists mostly of ethane.

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

DISTRICT  
 INVOICE  
 LAP AUDI  
 LABORATC

WO #: 1536432



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: 12/30/15  
 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: 12-30-15 Time: 13:00 pst

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Porter Ranch Community Elementary School	54686	12/27/15 01:46 5 min	-30"	3
Porter Ranch Community Elementary School	54053	12/28/15 04:52 5 min	-30"	1
Porter Ranch Community Elementary School	22474	12/28/15 05:28 5 min	-30"	0

Relinquished by	Received by	Firm/Agency	Date	Time
<del>Sumner Wilson</del> <i>kw</i>	<i>[Signature]</i>	SCAQMD Lab	12/30/15	16:21

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)