

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

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

**TO:** Jason Low, Ph.D.  
Atmospheric Measurements Manager  
Science and Technology Advancement

**LABORATORY NO:** 1616610

**REFERENCE NO:** GC6-121-100

**SAMPLE DESCRIPTION:**  
24 hour sample  
Canister # 54727

**DATE SAMPLED:** 06/14/16

**DATE RECEIVED:** 06/15/16

**DATE ANALYZED:** 06/17/16

**SAMPLE LOCATION:**  
Castlebay Elementary School

**ANALYZED BY:** Yang Song

**REQUESTED BY:** Sumner Wilson

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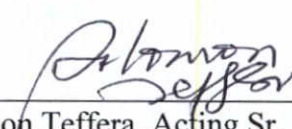
**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Volatile Organic Compounds (VOC) by Gas Chromatography(GC)  
and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 6/21/16

Approved By: \_\_\_\_\_

  
Solomon Teffera, Acting Sr. Manager  
Laboratory Services Branch  
(909) 396-2199

**LAB NO: 1616610**  
**Location: Castlebay Elementary School**

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

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

Sample Date	06/14/16	
Canister	54727	
<b>Sampling Location</b>	<b>Castlebay Elementary School</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	<b>80</b>	<b>100-700 ppbC</b>
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	1.2	0.7-4.1
acetylene	1.0	
propane	2.3	0.4-5.0
propylene	0.2	0.2-0.7
isobutane	0.5	0.2-0.9
n-butane	0.7	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	2.2	
1-pentene	<0.1	
n-pentane	0.3	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	0.2	
3-methylpentane	0.1	
1-hexene	<0.1	<0.1-0.1
n-hexane	0.1	0.1-0.2
methylcyclopentane	0.1	
2,4-dimethylpentane	<0.1	
benzene	0.2	0.1-0.5
cyclohexane	<0.1	
2-methylhexane	<0.1	
2,3-dimethylpentane	<0.1	
3-methylhexane	<0.1	
2,2,4-trimethylpentane	0.2	
n-heptane	<0.1	0.1-0.2
methylcyclohexane	<0.1	

**LAB NO: 1616610**

**Location: Castlebay Elementary School**

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

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Flame Ionization Detection (FID)

Sample Date	06/14/16	
Canister	54727	
<b>Sampling Location</b>	<b>Castlebay Elementary School</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	<b>80</b>	<b>100-700 ppbC</b>
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	<0.1	
toluene	0.4	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

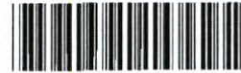
NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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

DIS  
 INV  
 LAI  
 LABO

WO #: 1616610



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: \_\_\_\_\_

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Analysis Requested by: Sumner Wilson Date: 6/15/16

Approved by: Jason Low Office: \_\_\_\_\_ Budget #: 44716

REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill   
Suspected Violation Rule(s) \_\_\_\_\_ Other

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Sample Collected by: Qian Zhou Date: 6/15/16 Time: 10:40am

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End Press
Porter Ranch / Castlebay Elem	54727	6/14/16 / 00:00 / 24 hours	-30"	+14

Relinquished by	Received by	Firm/Agency	Date	Time
<i>zhong</i>	<i>MTW</i>	SCAQMD Lab	6/15/16	12:45

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Remarks: 1:3 scheduled samples from trailer at Castlebay  
Castlebay Lane Charter School – 19010 Castlebay Ln, Porter Ranch, CA  
Right sampler, sn 4671