

**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:** 1618128

**REFERENCE NO:** GC6-121-102

**SAMPLE DESCRIPTION:**  
24 hour Sample  
Canister # 54728

**DATE SAMPLED:** 06/29/16

**DATE RECEIVED:** 06/30/16

**DATE ANALYZED:** 06/30/16

**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: 7/8/16

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

**LAB NO: 1618128**

**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              | 06/29/16                           |                            |
| Canister                 | 54728                              |                            |
| <b>Sampling Location</b> | <b>Castlebay Elementary School</b> | <b>Ambient Air</b>         |
| <b>Total NMOC, ppbC</b>  | 101                                | 100-700 ppbC               |
| <b><u>Compound</u></b>   | <b><u>Conc. (ppbv)</u></b>         | <b><u>Conc. (ppbv)</u></b> |
| ethylene                 | 1.1                                | 0.7-4.1                    |
| acetylene                | 1.1                                |                            |
| propane                  | 2.7                                | 0.4-5.0                    |
| propylene                | 0.2                                | 0.2-0.7                    |
| isobutane                | 0.6                                | 0.2-0.9                    |
| n-butane                 | 0.9                                | 0.3-1.7                    |
| 1-butene                 | <0.1                               | 0.1-0.3                    |
| trans-2-butene           | <0.1                               |                            |
| cis-2-butene             | <0.1                               |                            |
| isopentane               | 3.0                                |                            |
| 1-pentene                | <0.1                               |                            |
| n-pentane                | 0.4                                | 0.1-0.6                    |
| isoprene                 | 0.4                                |                            |
| 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          | 0.2                                |                            |
| 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                               |                            |

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|--------------------------|------------------------------------|----------------------------|
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| <b><u>Compound</u></b>   | <b><u>Conc. (ppbv)</u></b>         | <b><u>Conc. (ppbv)</u></b> |
| 2,3,4-trimethylpentane   | <0.1                               |                            |
| toluene                  | 0.5                                | 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              | 0.2                                | 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           | <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**

LA

WO #: 1618128



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: 6/30/16

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: Qian Zhou Date: 6/30/16 Time: 09:50pm

**REQUESTED ANALYSIS: PAMS analysis**

| City/Location                 | Can#  | Start day / time/ duration | Start vac | End Press |
|-------------------------------|-------|----------------------------|-----------|-----------|
| Porter Ranch / Castlebay Elem | 54728 | 6/29/16 / 00:00 / 24 hours | -30"      | +12.5     |
|                               |       |                            |           |           |
|                               |       |                            |           |           |
|                               |       |                            |           |           |
|                               |       |                            |           |           |

| Relinquished by | Received by      | Firm/Agency | Date    | Time  |
|-----------------|------------------|-------------|---------|-------|
| <i>Zhouqian</i> | <i>Chris Qui</i> | SCAQMD Lab  | 6/30/16 | 12:42 |
|                 |                  |             |         |       |
|                 |                  |             |         |       |

Remarks: 1:3 scheduled samples from trailer at Castlebay  
Castlebay Lane Charter School - 19010 Castlebay Ln, Porter Ranch, CA  
Left sampler, sn 3419