

**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. **LABORATORY NO:** 1610920  
Atmospheric Measurements Manager  
Science and Technology Advancement **REFERENCE NO:** GC6-3-91

**SAMPLE DESCRIPTION:** **DATE SAMPLED:** 04/18/16  
24 hour Sample  
Canister # E3843 **DATE RECEIVED:** 04/19/16

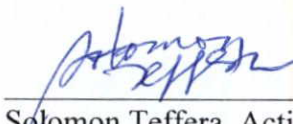
**SAMPLE LOCATION:** **DATE ANALYZED:** 04/19/16  
Porter Ranch **ANALYZED BY:** Yang Song  
Castlebay Elementary School **REQUESTED BY:** Sumner Wilson

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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: 4/22/16

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

**LAB NO: 1610920**

**Location: Porter Ranch / Castlebay Elem**

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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 04/18/16  
Canister E3843  
Sampling Location Castlebay Elementary Ambient Air  
Total NMOC, ppbC 53 100-700 ppbC

| <u>Compound</u>        | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
|------------------------|---------------------|---------------------|
| ethylene               | 0.5                 | 0.7-4.1             |
| acetylene              | 0.6                 |                     |
| propane                | 1.7                 | 0.4-5.0             |
| propylene              | 0.1                 | 0.2-0.7             |
| isobutane              | 0.3                 | 0.2-0.9             |
| n-butane               | 0.4                 | 0.3-1.7             |
| 1-butene               | <0.1                | 0.1-0.3             |
| trans-2-butene         | <0.1                |                     |
| cis-2-butene           | <0.1                |                     |
| isopentane             | 1.1                 |                     |
| 1-pentene              | <0.1                |                     |
| n-pentane              | 0.2                 | 0.1-0.6             |
| isoprene               | 0.2                 |                     |
| trans-2-pentene        | N.D.                |                     |
| cis-2-pentene          | N.D.                |                     |
| 2,2-dimethylbutane     | <0.1                |                     |
| cyclopentane           | <0.1                |                     |
| 2,3-dimethylbutane     | <0.1                |                     |
| 2-methylpentane        | <0.1                |                     |
| 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                | 0.1                 | 0.1-0.5             |
| cyclohexane            | <0.1                |                     |
| 2-methylhexane         | <0.1                |                     |
| 2,3-dimethylpentane    | <0.1                |                     |
| 3-methylhexane         | <0.1                |                     |
| 2,2,4-trimethylpentane | <0.1                |                     |
| n-heptane              | <0.1                | 0.1-0.2             |
| methylcyclohexane      | <0.1                |                     |

**LAB NO: 1610920**

**Location: Porter Ranch / Castlebay Elem**

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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              | 04/18/16                    |                            |
| Canister                 | E3843                       |                            |
| <b>Sampling Location</b> | <b>Castlebay Elementary</b> | <b>Ambient Air</b>         |
| <b>Total NMOC, ppbC</b>  | 53                          | 100-700 ppbC               |
| <b><u>Compound</u></b>   | <b><u>Conc. (ppbv)</u></b>  | <b><u>Conc. (ppbv)</u></b> |
| 2,3,4-trimethylpentane   | <0.1                        |                            |
| toluene                  | 0.2                         | 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**

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 IN  
 L  
LAB

1610920



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: 4/19/16

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: 4/19/16 Time: 09:25am

**REQUESTED ANALYSIS: PAMS analysis**

| City/Location                 | Can#  | Start day / time/ duration | Start vac | End Press |
|-------------------------------|-------|----------------------------|-----------|-----------|
| Porter Ranch / Castlebay Elem | E3843 | 4/18/16 / 00:00 / 24 hours | -30"      | +11.5     |
|                               |       |                            |           |           |
|                               |       |                            |           |           |
|                               |       |                            |           |           |
|                               |       |                            |           |           |

| Relinquished by  | Received by        | Firm/Agency | Date           | Time         |
|------------------|--------------------|-------------|----------------|--------------|
| <i>zhongqian</i> | <i>[Signature]</i> | SCAQMD Lab  | <i>4/19/16</i> | <i>13:51</i> |
|                  |                    |             |                |              |
|                  |                    |             |                |              |

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