

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

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

|   |   |
|---|---|
| <b>TO:</b> Jason Low<br>Atmospheric Measurements Manager                  | <b>LABORATORY NO:</b> <u>1609622</u>      |
|   | <b>REFERENCE NO:</b> <u>GC6-3-88</u>      |
| <b>SAMPLE DESCRIPTION:</b><br>Triggered Sample<br>Canister # 53410        | <b>DATE SAMPLED:</b> <u>04/02/16</u>      |
|   | <b>DATE RECEIVED:</b> <u>04/05/16</u>     |
|   | <b>DATE ANALYZED:</b> <u>04/07/16</u>     |
| <b>SAMPLE LOCATION:</b><br>Porter Ranch<br>Castlebay Elementary<br>School | <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: 4/13/16

Approved By: 

Solomon Teffera, Sr. Manager  
Laboratory Services Branch  
(909) 396-2391

**LAB NO: 1609622****Location: Porter Ranch / Castlebay Elem****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

|                          |                             |                            |
|--------------------------|-----------------------------|----------------------------|
| Sample Date              | 04/02/16                    |                            |
| Canister                 | 53410                       |                            |
| <b>Sampling Location</b> | <b>Castlebay Elementary</b> | <b>Ambient Air</b>         |
| <b>Total NMOC, ppbC</b>  | 144                         | 100-700 ppbC               |
| <b><u>Compound</u></b>   | <b><u>Conc. (ppbv)</u></b>  | <b><u>Conc. (ppbv)</u></b> |
| ethylene                 | 1.0                         | 0.7-4.1                    |
| acetylene                | 1.1                         |                            |
| propane                  | 4.9                         | 0.4-5.0                    |
| propylene                | 0.2                         | 0.2-0.7                    |
| isobutane                | 1.6                         | 0.2-0.9                    |
| n-butane                 | 2.0                         | 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                | 0.5                         | 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: 1609622**

**Location: Porter Ranch / Castlebay Elem**

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

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

Sample Date 04/02/16  
Canister 53410  
Sampling Location Castlebay Elementary Ambient Air

Total NMOC, ppbC 144 100-700 ppbC

| <u>Compound</u>        | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
|------------------------|---------------------|---------------------|
| 2,3,4-trimethylpentane | <0.1                |                     |
| toluene                | 2.5                 | 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            | 0.4                 | 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**

D  
 IN  
 L  
LAB

WO #: 1609622



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: 4/5/16

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: 4/5/16 Time: 12:20pm

**REQUESTED ANALYSIS: PAMS analysis**

| City/Location             | Can#  | Start day / time/ duration | Start vac | End vac |
|---------------------------|-------|----------------------------|-----------|---------|
| Castle Bay Charter School | 53410 | 4/2/16 07:55 am 5 min      | -30"      | -2"     |
|                           |       |                            |           |         |
|                           |       |                            |           |         |
|                           |       |                            |           |         |
|                           |       |                            |           |         |

| Relinquished by  | Received by | Firm/Agency | Date   | Time  |
|------------------|-------------|-------------|--------|-------|
| <i>zhongqian</i> | <i>JL</i>   | SCAQMD Lab  | 4/5/16 | 15:11 |
|                  |             |             |        |       |
|                  |             |             |        |       |

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

Trigger is set to 5ppm

Castle Bay Charter School 19010 Castlebay Ln, Porter Ranch, CA 91326

GPS: 34.315022, -118.564872

*Run on 7<sup>th</sup>*