

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

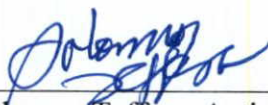
**MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS**

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|--|---|
| TO: Jason Low, Ph.D Atmospheric Measurements Manager Science and Technology Advancement | LABORATORY NO: <u>1611210</u> |
| | REFERENCE NO: <u>GC7-2-137</u> |
| SAMPLE DESCRIPTION: 24 hour sample Canister # 54073 | DATE SAMPLED: <u>04/21/16</u> |
| | DATE RECEIVED: <u>04/22/16</u> |
| | DATE ANALYZED: <u>04/25/16</u> |
| SAMPLE LOCATION: Porter Ranch Castlebay Elementary School | ANALYZED BY: <u>Dan Iha</u> |
| | REQUESTED BY: <u>Sumner Wilson</u> |

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: 4/29/16

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

LAB NO: 1611210

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 04/21/16
Canister 54073
Sampling Location **Castlebay Elementary** **Ambient Air**
Total NMOC, ppbC 70 100-700 ppbC

| <u>Compound</u> | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
|------------------------|---------------------|---------------------|
| ethylene | 0.6 | 0.7-4.1 |
| acetylene | 0.5 | |
| propane | 1.3 | 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 | 1.7 | |
| 1-pentene | <0.1 | |
| n-pentane | 0.2 | 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 | <0.1 | |
| 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: 1611210

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 | 04/21/16 | |
| Canister | 54073 | |
| Sampling Location | Castlebay Elementary | Ambient Air |
| Total NMOC, ppbC | 70 | 100-700 ppbC |
| <u>Compound</u> | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
| 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**

DIST
 INVC
 LAP
 LABOF

WO #: 1611210



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: 4/22/16
 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: 4/22/16 Time: 09:50am

REQUESTED ANALYSIS: PAMS analysis

| City/Location | Can# | Start day / time/ duration | Start vac | End Press |
|-------------------------------|-------|----------------------------|-----------|-----------|
| Porter Ranch / Castlebay Elem | 54073 | 4/21/16 / 00:00 / 24 hours | -30" | +9 |
| | | | | |
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| Relinquished by | Received by | Firm/Agency | Date | Time |
|------------------|-------------|-------------|---------|-------|
| <i>zhongjian</i> | <i>JL</i> | SCAQMD Lab | 4/22/16 | 12:08 |
| | | | | |
| | | | | |

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