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: 1612731

REFERENCE NO: GC6-3-93

SAMPLE DESCRIPTION:
24 hour Sample
Canister #: 54642

DATE SAMPLED: 05/06/16

DATE RECEIVED: 05/07/16

DATE ANALYZED: 05/07/16

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: 5/11/16
Approved By: Solomon Teffera, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199
LAB NO: 1612731  
Location: Porter Ranch Elem.

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS
Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

<table>
<thead>
<tr>
<th>Sample Date</th>
<th>05/06/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canister</td>
<td>54642</td>
</tr>
<tr>
<td>Sampling Location</td>
<td>Porter Ranch Elem.</td>
</tr>
<tr>
<td>Total NMOC, ppbC</td>
<td>24</td>
</tr>
<tr>
<td>Ambient Air</td>
<td>100-700 ppbC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene</td>
<td>0.2</td>
<td>0.7-4.1</td>
</tr>
<tr>
<td>acetylene</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>0.5</td>
<td>0.4-5.0</td>
</tr>
<tr>
<td>propylene</td>
<td>&lt;0.1</td>
<td>0.2-0.7</td>
</tr>
<tr>
<td>isobutane</td>
<td>&lt;0.1</td>
<td>0.2-0.9</td>
</tr>
<tr>
<td>n-butane</td>
<td>&lt;0.1</td>
<td>0.3-1.7</td>
</tr>
<tr>
<td>1-butene</td>
<td>&lt;0.1</td>
<td>0.1-0.3</td>
</tr>
<tr>
<td>trans-2-butene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cis-2-butene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>isopentane</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>1-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-pentane</td>
<td>&lt;0.1</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>isoprene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>trans-2-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cis-2-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,2-dimethylbutane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cyclopentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,3-dimethylbutane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2-methylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1-hexene</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</td>
</tr>
<tr>
<td>n-hexane</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclopentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,4-dimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>benzene</td>
<td>&lt;0.1</td>
<td>0.1-0.5</td>
</tr>
<tr>
<td>cyclohexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2-methylhexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,3-dimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylhexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,2,4-trimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-heptane</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclohexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>
LAB NO: 1612731  
Location: Porter Ranch Elem.

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS  
Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

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<td>54642</td>
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</table>

**Sampling Location**  
Porter Ranch Elem.  
Ambient Air

| Total NMOC, ppbC | 24 | 100-700 ppbC |

**Compound**  
**Conc. (ppbv)**  
**Conc. (ppbv)**

- 2,3,4-trimethylpentane  
  <0.1

- toluene  
  <0.1

- 2-methylheptane  
  <0.1

- 3-methylheptane  
  <0.1

- n-octane  
  <0.1

- ethylbenzene  
  <0.1

- m+p-xylene  
  <0.1

- styrene  
  <0.1

- o-xylene  
  <0.1

- n-nonane  
  <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  
  N.D.

- 1,2,4-trimethylbenzene  
  <0.1

- n-decane  
  <0.1

- 1,2,3-trimethylbenzene  
  <0.1

- m-diethylbenzene  
  <0.1

- p-diethylbenzene  
  <0.1

- n-undecane  
  <0.1

- n-dodecane  
  <0.1

NMOC = Non-Methane Organic Compounds  
N.D. = Not Detected
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**
**SAMPLE ANALYSIS REQUEST**

<table>
<thead>
<tr>
<th>TO: SCAQMD LAB: □</th>
<th>OTHER: □</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOURCE NAME:</td>
<td>Southern California Gas Co.</td>
</tr>
<tr>
<td>I.D. No.</td>
<td></td>
</tr>
<tr>
<td>Source Address:</td>
<td>12801 Tampa Ave</td>
</tr>
<tr>
<td>City:</td>
<td>Porter Ranch</td>
</tr>
<tr>
<td>Mailing Address:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>Zip:</td>
<td>91326</td>
</tr>
<tr>
<td>Contact Person:</td>
<td></td>
</tr>
<tr>
<td>Title:</td>
<td></td>
</tr>
<tr>
<td>Tel:</td>
<td></td>
</tr>
</tbody>
</table>

Analysis Requested by: Sumner Wilson
Date: 5/7/16

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: 5/7/16
Time: 09:55am

**REQUESTED ANALYSIS:** PAMS analysis

<table>
<thead>
<tr>
<th>City/Location</th>
<th>Can#</th>
<th>Start day / time / duration</th>
<th>Start vac</th>
<th>End Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porter Ranch Community Elementary School (PRCS)</td>
<td>54642</td>
<td>5/6/16 / 00:00 / 24 hours</td>
<td>&lt;-30&quot;</td>
<td>+11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relinquished by</th>
<th>Received by</th>
<th>Firm/Agency</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>zhengri</td>
<td>chin</td>
<td>SCAQMD Lab</td>
<td>5/7/16</td>
<td>12:27</td>
</tr>
</tbody>
</table>

Remarks: 1:3 scheduled samples from trailer at PRCS
Porter Ranch Community School Elementary – 12450 Mason Ave, Porter Ranch, CA 91326
GPS (34.293369, -118.580505)