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: 1611813

REFERENCE NO: GC7-2-140

SAMPLE DESCRIPTION:
24 hour Sample
Canister # 53393

DATE SAMPLED: 04/27/16

DATE RECEIVED: 04/28/16

DATE ANALYZED: 04/29/16

ANALYZED BY: Dan Iha

REQUESTED BY: Sumner Wilson

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: 5/3/16
Approved By: Solomon Tefferia, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199
LAB NO: 1611813  
Location: Reseda Station

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>04/27/16</th>
<th>Canister</th>
<th>53393</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sampling Location</strong></td>
<td><strong>Reseda Station</strong></td>
<td></td>
<td><strong>Ambient Air</strong></td>
</tr>
<tr>
<td><strong>Total NMOC, ppbC</strong></td>
<td>134</td>
<td></td>
<td>100-700 ppbC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Compound</strong></th>
<th><strong>Conc. (ppbv)</strong></th>
<th><strong>Conc. (ppbv)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene</td>
<td>0.2</td>
<td>0.7-4.1</td>
</tr>
<tr>
<td>acetylene</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>4.2</td>
<td>0.4-5.0</td>
</tr>
<tr>
<td>propylene</td>
<td>0.1</td>
<td>0.2-0.7</td>
</tr>
<tr>
<td>isobutane</td>
<td>0.5</td>
<td>0.2-0.9</td>
</tr>
<tr>
<td>n-butane</td>
<td>0.5</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>1.5</td>
<td></td>
</tr>
<tr>
<td>1-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-pentane</td>
<td>0.3</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>
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</tr>
<tr>
<td>1-hexene</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</td>
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<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>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>methycyclohexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>
LAB NO: 1611813  
Location: Reseda Station

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

Sample Date 04/27/16  
Canister 53393  
Sampling Location Reseda Station  
Ambient Air

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3,4-trimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>toluene</td>
<td>0.2</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>2-methylheptane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylheptane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-octane</td>
<td>&lt;0.1</td>
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</tr>
<tr>
<td>ethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>m+p-xylenes</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>styrene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>o-xylene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-nonane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>isopropylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-propylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>m-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>p-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1,3,5-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>o-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-decane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>m-diethylbenzene</td>
<td>&lt;0.1</td>
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</tr>
<tr>
<td>p-diethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-undecane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-dodecane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>

Total NMOC, ppbC 134  
100-700 ppbC

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

TO: SCAQMD LAB: ☒ OTHER: ☐
SOURCE NAME: Southern California Gas Co.
Source Address: 12801 Tampa Ave
Mailing Address: 
Contact Person: 

Analysis Requested by: Sumner Wilson Date: 4/28/16
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: 4/28/16 Time: 10:35pm
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>Reseda Station</td>
<td>53393</td>
<td>4/27/16 / 00:00 / 24 hours</td>
<td>&lt;30&quot;</td>
<td>+13.5</td>
</tr>
</tbody>
</table>

Relinquished by | Received by | Firm/Agency | Date | Time |
Zhou | | SCAQMD Lab | 4/28/16 | 10:57 |

Remarks: 1:3 scheduled samples from station at Reseda
Reseda Station – 18328 Gault St, Los Angeles, CA 91335
GPS (34.199225, -118.532743)