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: 1619006

REFERENCE NO: GC6-121-104

SAMPLE DESCRIPTION:
24 hr Sample
Canister # 54053

DATE SAMPLED: 07/08/16

DATE RECEIVED: 07/09/16

DATE ANALYZED: 07/12/16

SAMPLE LOCATION:
Reseda Station
18328 Gault St.
Los Angeles, CA 91335

ANALYZED BY: Yang Song

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: 7/13/16
Approved By: Solomon Teffera, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199
LAB NO: 1619006  
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>07/08/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canister</td>
<td>54053</td>
</tr>
<tr>
<td>Sampling Location</td>
<td>Reseda Station</td>
</tr>
<tr>
<td>Ambient Air</td>
<td>100-700 ppbC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total NMOC, ppbC</th>
<th>92</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene</td>
<td>1.2</td>
<td>0.7-4.1</td>
</tr>
<tr>
<td>acetylene</td>
<td>0.9</td>
<td>0.4-5.0</td>
</tr>
<tr>
<td>propane</td>
<td>5.1</td>
<td>0.2-0.7</td>
</tr>
<tr>
<td>propylene</td>
<td>0.4</td>
<td>0.2-0.9</td>
</tr>
<tr>
<td>isobutane</td>
<td>0.6</td>
<td>0.3-1.7</td>
</tr>
<tr>
<td>n-butane</td>
<td>0.8</td>
<td>0.1-0.3</td>
</tr>
<tr>
<td>1-butene</td>
<td>0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>trans-2-butene</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>cis-2-butene</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>isopentane</td>
<td>2.6</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>1-pentene</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>n-pentane</td>
<td>0.4</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>isoprene</td>
<td>0.2</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>trans-2-pentene</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>cis-2-pentene</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2,2-dimethylbutane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>cyclopentane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2,3-dimethylbutane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2-methylpentane</td>
<td>0.2</td>
<td>0.1-0.5</td>
</tr>
<tr>
<td>3-methylpentane</td>
<td>0.1</td>
<td>&lt;0.1</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>0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclopentane</td>
<td>0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>2,4-dimethylpentane</td>
<td>&lt;0.1</td>
<td>0.1-0.5</td>
</tr>
<tr>
<td>benzene</td>
<td>0.2</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>cyclohexane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2-methylhexane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2,3-dimethylpentane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>3-methylhexane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>2,2,4-trimethylpentane</td>
<td>0.2</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>&lt;0.1</td>
</tr>
</tbody>
</table>

H:\Ambient VOCs\00toxPAMS\2016 PAMS\Special Projects\LN1619006_Gas_YS_RD
LAB NO: 1619006  
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>07/08/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canister</td>
<td>54053</td>
</tr>
<tr>
<td>Sampling Location</td>
<td>Reseda Station</td>
</tr>
</tbody>
</table>

<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>0.4</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>
<td>&lt;0.1-0.3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>m+p-xylene</td>
<td>0.2</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>styrene</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.2</td>
</tr>
<tr>
<td>o-xylene</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>n-nonane</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</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>&lt;0.1-0.1</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>
<td></td>
</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>&lt;0.1</td>
</tr>
<tr>
<td>n-dodecane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>

Total NMOC, ppbC: 92  
Ambient Air: 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.
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: 7/9/16

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: 7/9/16 Time: 11:30am

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>54053</td>
<td>7/8/16 / 00:00 / 24 hours</td>
<td>&lt;-30”</td>
<td>+15</td>
</tr>
</tbody>
</table>

Relinquished by

Received by

Firm/Agency: SCAQMD Lab
Date: 7/9/16 Time: 13:30

Remarks: 1:3 scheduled samples from station at Reseda.
Reseda Station – 18328 Gault St, Los Angeles, CA 91335
GPS (34.199225, -118.532743). Right sampler sn 6113