TO: Jason Low, Ph.D.  
Atmospheric Measurements Manager  
Science and Technology Advancement

LABORATORY NO: 1618129

REFERENCE NO: GC6-121-102

SAMPLE DESCRIPTION:  
24 hr Sample  
Canister # 54095

DATE SAMPLED: 06/29/16

DATE RECEIVED: 06/30/16

DATE ANALYZED: 06/30/16

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: 07/08/16

Approved By: Solomon Tefera, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199
LAB NO: 1618129  
Location: Highlands Community Center

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

Sample Date: 06/29/16  
Canister: 54095  
Sampling Location: Highlands Community Center  
Ambient Air: 100-700 ppbC

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene</td>
<td>1.1</td>
<td>0.7-4.1</td>
</tr>
<tr>
<td>acetylene</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>2.2</td>
<td>0.4-5.0</td>
</tr>
<tr>
<td>propylene</td>
<td>0.3</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>0.8</td>
<td>0.3-1.7</td>
</tr>
<tr>
<td>1-butene</td>
<td>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>3.8</td>
<td></td>
</tr>
<tr>
<td>1-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-pentane</td>
<td>0.5</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>isoprene</td>
<td>0.3</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>0.2</td>
<td></td>
</tr>
<tr>
<td>3-methylpentane</td>
<td>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>0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclopentane</td>
<td>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>0.2</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>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></td>
</tr>
</tbody>
</table>
LAB NO: 1618129  
Location: Highlands Community Center

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>Sampling Location</th>
<th>Total NMOC, ppbC</th>
<th>Ambient Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highlands Community Center</td>
<td>88</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>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>0.1</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>&lt;0.1</td>
</tr>
</tbody>
</table>

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: 6/30/16

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: 6/30/16 Time: 10:10am

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 vac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highlands Community</td>
<td>54095</td>
<td>6-29-16 / 00:00 / 24 hours</td>
<td>-30”</td>
<td>+12</td>
</tr>
</tbody>
</table>

Relinquished by

Received by

Firm/Agency: SCAQMD Lab
Date: 6/30/16
Time: 12:49

Remarks: 1:3 scheduled samples from trailer
Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)
Left sampler, sn 5624