TOC INCOMING LETTER OF TRANSMITTAL

Vendor/Company Name and Address:

Date:

Subcontract Release Number/Purchase Order:

Transmittal Number:

Project Number:

Project/Contract Title:

[Electronic Submittals]

Vendor is Off-Site:

WRPS/Construction & Commissioning Document Control
ATTN: CDC/Mail Stop S7-68/2704HV/B200K
P.O. Box 850/Richland, WA 99352

Vendor is On-Site:

WRPS C&C Document Control/2704HV/B200K/200E

Check the applicable designation:

- Construction Subcontract
- [ ] Construction Subcontract

Electronic Submittals:

[ ] All other Submittals

[ ] All other Submittals

No Electronic Media Will Come In Password Protected, See SOW/PO for Acceptable Formats

E = Electronic
H = Hard Copy

*No Electronic Media Will Come in Password Protected, See SOW/PO for Acceptable Formats

Vendor/Company Representative:

JJ Furlong

02/02/17

Print First and Last Name

Signature

Date

DCC Receipt Acknowledgement

Print First and Last Name

Signature

Date

Attachment:

Weekly Report 1.3

005
WEEK 3 REPORT – LOCAL SOURCES AND ASSOCIATED GRAPHS

DECEMBER 30TH, 2016

Summary

The mobile lab operated between 6:00 AM and 4:00 PM December 30th. The field analyst primarily positioned the lab downwind of the AP farm, with some time spent driving around the 200E tank farms.

December 30th Local Sources

<table>
<thead>
<tr>
<th>Source</th>
<th>Time</th>
<th>Pressure</th>
<th>Temperature</th>
<th>Wind Direction</th>
<th>Wind Speed</th>
<th>Acetaldehyde</th>
<th>1-butanol; butenes</th>
<th>1,3-butadiene</th>
<th>Methyl nitrite</th>
<th>Benzene</th>
<th>CO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS09a,</td>
<td>12/30/16, 7:52:01 AM</td>
<td>1.02 bar</td>
<td>35 F</td>
<td>SSE 3 mph</td>
<td></td>
<td>2.95 ppb</td>
<td>1.30 ppb</td>
<td>1.22 ppb</td>
<td>0.90 ppb</td>
<td>0.49 ppb</td>
<td>554 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A repeated pattern over the course of several minutes, this source contains typical exhaust compounds and is accompanied by elevated CO2 throughout. The field notes make several observations about a fuel truck refueling generators along the E side of the AP fence line at this time.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LS09b,</td>
<td>12/30/16, 1:48:03 PM</td>
<td>1.02 bar</td>
<td>49 F</td>
<td>NW 2 mph</td>
<td></td>
<td>171.64 ppb</td>
<td>49.43 ppb</td>
<td>3.94 ppb</td>
<td>2.69 ppb</td>
<td>0.58 ppb</td>
<td>644 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A source of similar composition to LS09a that appears mixed with a second source of methanol. Substantially elevated CO2 visually correlates with all compounds except for methanol.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
December 30th Graphs

LS09a

[Graph showing concentration over time for various substances]

LS09b

[Graph showing concentration over time for various substances]
December 30th Maps

200E
**DECEMBER 31ST, 2016**

**Summary**

The mobile lab operated between 6:00 AM and 4:00 PM December 31st. The field analyst primarily positioned the lab downwind of the AP farm, with some time spent driving around the 200E tank farms.

**December 31st Local Sources**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Conditions</th>
<th>Parameters</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS10a</td>
<td>12/31/16, 7:12:20 AM</td>
<td>1.02 bar, 22 F, wind SSW 1 mph</td>
<td>methanol: 40.33 ppb, 1-butanol; butenes: 6.53 ppb, benzene: 2.62 ppb, acetaldehyde: 2.84 ppb, 1,3-butadiene: 1.34 ppb, methyl nitrite: 1.00 ppb, 2,4-dimethylpyridine: 0.68 ppb, CO2: 454 ppm</td>
<td>This event peaks over several minutes before dropping off again. Event spans approximately 6 minutes and is accompanied by periodic CO2 elevation. The field notes make several references to fuel and sewage trucks in the area at this time.</td>
</tr>
<tr>
<td>LS10b</td>
<td>12/31/16, 8:00:45 AM</td>
<td>1.02 bar, 23 F, wind SSW 3 mph</td>
<td>acetaldehyde: 21.45 ppb, methanol: 17.80 ppb, 1-butanol; butenes: 10.25 ppb, 1,3-butadiene: 8.53 ppb, MVK; 2,3-dihydrofuran; 2,5-dihydrofuran: 3.56 ppb, 3-methyl-3-buten-2-one; 2-methyl-2-butenal: 2.57 ppb, butanal: 2.02 ppb, benzene: 1.30 ppb, methyl nitrite: 1.22 ppb, 2,5-dimethylfuran: 1.19 ppb, 2-methylfuran: 1.15 ppb, 4-methyl-2-hexanone: 1.08 ppb, 2-ethyl-2-hexenal; 4-(1-methylpropyl)-2,3-dihydrofuran; 3-(1,1-dimethylethyl)-2,3-dihydrofuran: 1.00 ppb, 2-pentylfuran: 0.87 ppb, 2-propylfuran; 2-ethyl-5-methylfuran: 0.79 ppb, CO2: 414 ppm</td>
<td>This event lasts approximately 15 seconds and appears five seconds after a rise in CO2. The source is unknown.</td>
</tr>
</tbody>
</table>
December 31st Graphs

LS10a

Local Source 10a

Concentration, ppm

CO2 Concentration, ppm

Time

7:12 AM 12/31/2016 7:14 AM 7:16 AM 7:18 AM

LS10b

Local Source 10b

Concentration, ppm

CO2 Concentration, ppm

Time

8:00:30 AM 12/31/2016 8:01:00 AM 8:01:15 AM
December 31st Maps

200E