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***The Trusted Integrator for Sustainable Solutions***

REMOVAL SUPPORT TEAM 3  
EPA CONTRACT EP-S2-14-01

December 16, 2014

Mr. Cris D'Onofrio, On-Scene Coordinator  
U.S. Environmental Protection Agency - Region II  
Response and Prevention Branch  
2890 Woodbridge Avenue  
Edison, New Jersey 08837

**EPA CONTRACT NO: EP-S2-14-01**

**TDD No: TO-0001-0010**

**DC No: RST3-01-F-0018**

**SUBJECT: FINAL PHASE I REMOVAL ASSESSMENT SUB-SLAB SOIL GAS AND  
SURFACE WATER SAMPLING TRIP REPORT – ALFRED HELLER  
HEAT TREATING SITE, CLIFTON, PASSAIC COUNTY, NEW JERSEY**

Dear Mr. D'Onofrio,

Enclosed please find the Final Phase I Removal Assessment Sub-Slab Soil Gas and Surface Water Sampling Trip Report for the Alfred Heller Heat Treating Site located in Clifton, Passaic County, New Jersey. The Phase I Removal Assessment activities were conducted from February 26, 2013 through March 14, 2013. The U.S. Environmental Protection Agency's comments in regards to the draft version of this deliverable have been incorporated. If you have any questions or comments, please contact me at (732) 570-4943.

Sincerely,

WESTON SOLUTIONS, INC.

✓<sub>for</sub> Joel Petty  
RST 3 Group Leader

Enclosure  
cc: TDD File: TO-0001-0010

*an employee-owned company*

In association with Scientific and Environmental Associates, Inc.,  
Environmental Compliance Consultants, Inc., Avatar Environmental, LLC,  
On-Site Environmental, Inc., and Sovereign Consulting, Inc.





Vermont, for volatile organic compound (VOC) analysis, via EPA Method Target Organics (TO)-15. The samples were shipped under Chain of Custody (COC) Record No. 2-022813-153515-0002 and United Parcel Service (UPS) Tracking Nos. 1Z0615472110004386, 1Z0615472110004395, 1Z0615472110004402, and 1Z0615472110004411.

On March 14, 2013, RST 2 and EPA DESA personnel shipped eight sub-slab soil gas samples and one trip blank sample to TestAmerica Laboratories for VOC analysis, via EPA Method TO-15. The samples were shipped under COC Record No. 2-031413-095007-0003 and UPS Tracking Nos. 1Z0615472110004420, 1Z0615472110004439, and 1Z0615472110004448.

On March 14, 2013, a total of three aqueous samples, including one field sample, one field duplicate sample, and one trip blank sample, were hand delivered to the EPA DESA Laboratory located in Edison, New Jersey for target compound list (TCL) VOC analysis under COC Record No: 2-031413-115438-0004.

Refer to Attachment B, Table 1: Sample Collection Information and Attachment C: Chain of Custody Records.

**5. On-Site Personnel:**

<b>Name</b>	<b>Representing</b>	<b>Duties On-Site</b>
Cris D’Onofrio	U.S. EPA, Region II	On-Scene Coordinator
Rachael Graham	U.S. EPA, Region II DESA	EPA DESA Site Project Manager, Sample Collection, Sample Management, Site QA/QC, Site H&S
Christina Leung	U.S. EPA, Region II DESA	Sample Collection, Sample Management
Aleksandra Mallon	RST 2	RST 2 Site Project Manager, Site QA/QC, Site H&S, Site Documentation
Peter Lisichenko	RST 2	Site Documentation

**6. Site Background and Description:**

The Site is located at 5 Wellington Street in Clifton, Passaic County, New Jersey. The Site is located in a densely populated, mixed residential and light industrial area of Clifton, New Jersey. There are four schools located within a ½ mile radius of the Site. The Passaic River is located less than ¾ mile to the east of the Site.

The Site is a former heat treating and zinc plating/conversion coating facility. The Site is approximately 4 acres in size and contains six adjacent buildings within an approximate floor space of 75,000 square feet (ft<sup>2</sup>). The EPA conducted an Emergency Removal Action at the Site in 2009 that included the cleaning and dismantling of plating lines, disposal/recycling of approximately 600 drums of chemical wastes, and waste removal/cleaning of all tanks, vats, floor pits, and sumps.

In November 2009, EPA initiated an on-site soil and sub-slab soil gas sampling assessment. Soil samples were collected from beneath the concrete floor, from sumps, and from other suspected contaminated areas. Sub-slab soil gas samples were also collected from the sub-slab. Sub-slab soil gas samples contained trichloroethylene (TCE) concentrations that ranged from 82,800 micrograms per cubic meters ( $\mu\text{g}/\text{m}^3$ ) to 742,000  $\mu\text{g}/\text{m}^3$  and tetrachloroethylene (PCE) concentrations that ranged from 3,350  $\mu\text{g}/\text{m}^3$  to 18,200  $\mu\text{g}/\text{m}^3$ .

In May 2011, EPA initiated a groundwater and soil investigation to determine the nature and extent of TCE contamination that resulted from degreasing operations at the on-site facility. Additional investigative work was conducted in January 2012. These investigations included monitoring well installations (on-site and off-site), sub-slab soil gas sampling, on-site soil sampling, and limited vapor intrusion sampling. Results of the investigations indicated that a TCE plume is migrating to the east of the Site and that a potential for vapor intrusion exists for properties in that area. TCE was found in soils at concentrations up to 3,100,000 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), exceeding both the New Jersey Department of Environmental Protection's (NJDEP's) most stringent soil remediation guidance, Impact to Groundwater Soil Cleanup Criteria of 10  $\mu\text{g}/\text{kg}$ , and least stringent soil remediation guidance, Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) of 20,000  $\mu\text{g}/\text{kg}$ .

#### **7. Removal Assessment Vapor Intrusion and Surface Water Sampling:**

In February and March 2013, RST 2 and EPA DESA conducted the Phase I Removal Assessment at the Site. Sub-slab soil gas sampling was conducted at 12 properties (11 residential and one commercial/industrial) in accordance with the EPA Scientific, Engineering, Response & Analytical Services (SERAS) contractor's standard operating procedure (SOP) No. 2082: *Construction and Installation of Permanent Sub-Slab Soil Gas Wells*, March 2007. Laboratory pre-cleaned stainless steel Summa canisters, fitted with 24-hour passive flow controllers calibrated by the laboratory, were utilized for the sampling event. The Summa canisters were purged and batch cleaned by the laboratory in accordance with EPA Method TO-15. Surface water samples were collected following EPA Environmental Response Team (ERT) SOP No. 2013: *Surface Water Sampling*.

All sample information was transcribed into EPA's Scribe sample management database from which the sample labels and COC documents were then generated. All sub-slab soil gas samples were shipped to TestAmerica Laboratories for analysis on February 28, 2014 and March 14, 2013. All surface water samples were hand-delivered to the EPA DESA laboratory for analysis on March 14, 2013.

Refer to Attachment D for photographic documentation of the February and March 2013 sampling event.

## 8. Analytical Discussion:

All EPA Method TO-15 VOC validated results for residential properties were compared against 10 times their respective EPA Regional Screening Level (RSL) for Residential Air; results for Property P007, the only industrial property sampled as part of this sampling event, were compared to 10 times the RSLs for Industrial Air. A multiple of 10 was used in order to equate an indoor air standard with sub-slab soil gas. EPA established Site-Specific Action Levels for TCE, PCE, and carbon tetrachloride based upon their current respective RSLs. These three contaminants of concern were therefore also compared to their respective current EPA-established Residential or Commercial/Industrial Site-Specific Action Levels. The current EPA-established Residential Site-Specific Action Levels for sub-slab soil gas are as follows: 20 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) for TCE; 1,100  $\mu\text{g}/\text{m}^3$  for PCE; and 47  $\mu\text{g}/\text{m}^3$  for carbon tetrachloride. The current EPA-established Commercial/Industrial Site-Specific Action Levels for sub-slab soil gas are as follows: 80  $\mu\text{g}/\text{m}^3$  for TCE; 4,700  $\mu\text{g}/\text{m}^3$  for PCE; and 200  $\mu\text{g}/\text{m}^3$  for carbon tetrachloride. It should be noted that carbon tetrachloride has not been found in groundwater samples collected from monitoring wells located on the Site and therefore may not be associated with on-site contamination.

### *Sub-Slab Soil Gas - Residential Properties:*

Based on the validated analytical results, the following 22 EPA Method TO-15 VOCs were detected in sub-slab soil gas samples collected from the 11 residential properties (maximum concentration and sample location in parentheses): 1,1,1-trichloroethane (14  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001); 1,1,2,2-tetrachloroethane (0.45  $\mu\text{g}/\text{m}^3$  in P004-SG001-130227-001); 1,1-dichloroethane (1.4  $\mu\text{g}/\text{m}^3$  in P013-SG001-130312-01); 1,1-dichloroethene (7.3  $\mu\text{g}/\text{m}^3$  in P013-SG001-130312-01); 1,2-dichloroethane (0.48  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); 1,3,5-trimethylbenzene (0.43  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); 4-ethyltoluene (0.25  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); benzene (2.1  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); bromodichloromethane (0.25  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); carbon tetrachloride (220  $\mu\text{g}/\text{m}^3$  in P013-SG001-130312-01); chloroform (62  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001); cis-1,2-dichloroethene (36  $\mu\text{g}/\text{m}^3$  in P013-SG001-130312-01); dichlorodifluoromethane (5.1  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001); ethylbenzene (1.1  $\mu\text{g}/\text{m}^3$  in P006-SG001-130227-001); heptane (2.4  $\mu\text{g}/\text{m}^3$  in P010-SG001-130312-01); m,p-xylene (3.7  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); o-xylene (1.2  $\mu\text{g}/\text{m}^3$  in P005-SG001-130227-001); PCE (79  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001); toluene (11  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001 and P010-SG001-130312-01); trans-1,2-dichloroethene (0.77  $\mu\text{g}/\text{m}^3$  in P013-SG001-130312-01); TCE (540  $\mu\text{g}/\text{m}^3$  in P004-SG002-130227-001); and trichlorofluoromethane (4.4  $\mu\text{g}/\text{m}^3$  in P003-SG001-130226-001). Three TO-15 VOCs (carbon tetrachloride, chloroform, and TCE) were detected in samples collected from residential properties at concentrations exceeding 10 times their respective EPA RSL for Residential Air.

Sub-slab soil gas validated analytical results from the residential sampling event also indicated the presence of TCE at concentrations that exceeded the current EPA-established Residential Site-Specific Action Level of 20  $\mu\text{g}/\text{m}^3$  in five samples collected from five of the 11 residential properties (Properties P004, P005, P010, P011, and P013). These elevated

concentrations for TCE ranged from 45  $\mu\text{g}/\text{m}^3$  at Property P010 to 540  $\mu\text{g}/\text{m}^3$  at Property P004, with the highest concentration detected in sample P004-SG002-130227-001.

Sub-slab soil gas validated analytical results from the residential sampling event also indicated the presence of carbon tetrachloride at concentrations that exceeded the current EPA-established Residential Site-Specific Action Level of 47  $\mu\text{g}/\text{m}^3$  in four samples collected from four of the 11 residential properties (Properties P003, P004, P010, and P013). These elevated concentrations for carbon tetrachloride ranged from 100  $\mu\text{g}/\text{m}^3$  at Property P003 to 220  $\mu\text{g}/\text{m}^3$  at Property P013, with the highest concentration detected in sample P013-SG001-130312-01.

PCE was not detected in any sub-slab soil gas samples at concentrations exceeding the current EPA-established Residential Site-Specific Action Level of 1,100  $\mu\text{g}/\text{m}^3$ .

Refer to Attachment B, Table 2: TO-15 VOC Validated Analytical Data Summary and Attachment E for the validated laboratory data packages.

***Sub-Slab Soil Gas – Commercial/Industrial Property:***

Property P007 was the only commercial/industrial property sampled as part of this phase of the assignment. A total of six sub-slab soil gas samples were collected from Property P007. Based on the validated analytical results, the following 17 EPA Method TO-15 VOCs were detected in sub-slab soil gas samples collected from Property P007 (maximum concentration and sample location in parentheses): 1,1,1-trichloroethane (3.8  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); benzene (0.72  $\mu\text{g}/\text{m}^3$  in P007-SG003-130226-001); bromodichloromethane (2.6  $\mu\text{g}/\text{m}^3$  in P007-SG003-130226-001); carbon tetrachloride (0.89  $\mu\text{g}/\text{m}^3$  in P007-SG005-130226-001); chloroform (42  $\mu\text{g}/\text{m}^3$  in P007-SG003-130226-001); cis-1,2-dichloroethene (21  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); dichlorodifluoromethane (5.8  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); ethylbenzene (0.85  $\mu\text{g}/\text{m}^3$  in P007-SG004-130226-001); heptane (0.40  $\mu\text{g}/\text{m}^3$  in P007-SG004-130226-001); m,p-xylene (3.0  $\mu\text{g}/\text{m}^3$  in P007-SG004-130226-001); methyl tert-butyl ether (1.4  $\mu\text{g}/\text{m}^3$  in P007-SG003-130226-001); o-xylene (0.94  $\mu\text{g}/\text{m}^3$  in P007-SG004-130226-001); PCE (7.0  $\mu\text{g}/\text{m}^3$  in P007-SG001-130226-001); toluene (32  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); trans-1,2-dichloroethene (5.2  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); TCE (500  $\mu\text{g}/\text{m}^3$  in P007-SG002-130226-001); and trichlorofluoromethane (1.9  $\mu\text{g}/\text{m}^3$  in P007-SG001-130226-001). Two TO-15 VOCs (chloroform and TCE) were detected in samples collected from the one commercial/industrial property at concentrations exceeding 10 times their respective EPA RSL for Commercial/Industrial Air.

Sub-slab soil gas validated analytical results from the one commercial/industrial property also indicated the presence of TCE at concentrations that exceeded the current EPA-established Commercial/Industrial Site-Specific Action Level of 80  $\mu\text{g}/\text{m}^3$  in two samples collected from Property P007. These elevated concentrations for TCE ranged from 95  $\mu\text{g}/\text{m}^3$  to 500  $\mu\text{g}/\text{m}^3$ , with the highest concentration detected in sample P007-SG002-130226-001.

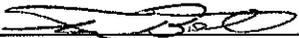
Carbon tetrachloride and PCE were not detected in any sub-slab soil gas samples collected from Property P007 at concentrations exceeding the current EPA-established Commercial/Industrial Site-Specific Action Level of 200  $\mu\text{g}/\text{m}^3$  and 4,700  $\mu\text{g}/\text{m}^3$ , respectively.

Refer to Attachment B, Table 2: TO-15 VOC Validated Analytical Data Summary and Attachment E for the validated laboratory data packages.

***Surface Water:***

Based on the validated analytical results of the surface water samples collected as part of this phase of the assessment, carbon tetrachloride was detected in both surface water samples collected from Property P014 at concentrations of 9.5 micrograms per liter ( $\mu\text{g}/\text{L}$ ) and 10  $\mu\text{g}/\text{L}$ . Both of these concentrations exceed their New Jersey Administrative Code Surface Water Quality Standard of 0.33  $\mu\text{g}/\text{L}$  for carbon tetrachloride. All other VOCs were non-detect in the two samples.

Refer to Attachment B, Table 3: TCL VOC Validated Analytical Data Summary and Attachment E for the validated laboratory data packages.

Report prepared by:   
for Joel Petty  
RST 3 Group Leader

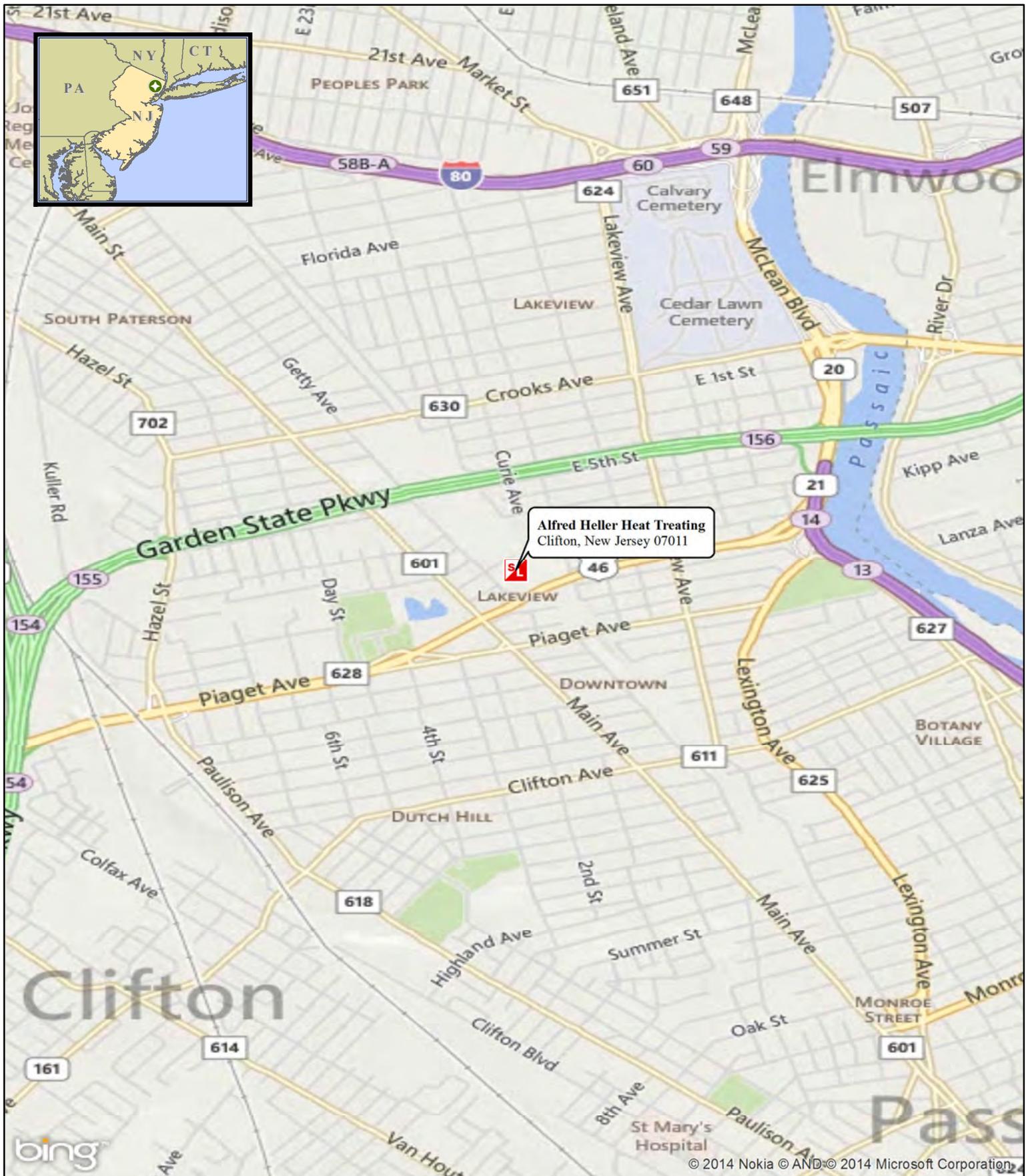
12/16/14  
Date

Report reviewed by:   
Timothy Benton, CHMM  
RST 3 Operations Manager

12/16/14  
Date

# **ATTACHMENT A**

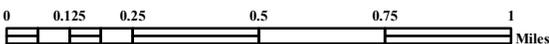
Figure 1: Site Location Map



Alfred Heller Heat Treating  
Clifton, New Jersey 07011

**Legend**

Site Location



**Weston Solutions, Inc.**  
East Division

In Association With Avatar Environmental, LLC,  
Scientific and Environmental Associates, Inc.,  
Environmental Compliance Consultants,  
On-Site Environmental, Inc., and Sovereign Consulting, Inc.

DATE MODIFIED: 11/29/2010

<b>Figure 1: Site Location Map</b>	
ALFRED HELLER HEAT TREATING CLIFTON, NEW JERSEY	
U.S. ENVIRONMENTAL PROTECTION AGENCY REMOVAL SUPPORT TEAM 3 CONTRACT # EP-S2-14-01	
GIS ANALYST:	T. BENTON
EPA OSC:	C. D'ONOFRIO
RST SPM:	P. AHERN
FILENAME:	SITEMAP.MXD

## **ATTACHMENT B**

Table 1: Sample Collection Information

Table 2: TO-15 VOC Validated Analytical Data Summary, Phase I Sub-Slab Soil Gas Samples

Table 3: TCL VOC Validated Analytical Data Summary, Phase I Surface Water Samples

**Table 1: Sample Collection Information**  
**Phase I Sub-Slab Soil Gas and Surface Water Samples**  
**Alfred Heller Heat Treating Site**  
**February 26 through March 14, 2013**

RST 2 Sample ID	CLP Sample ID	Start Date	Start Time	Stop Date	Stop Time	Matrix	Analysis	Sample Type
P002-SG001-130226-001	B73F4	2/26/2013	9:51	2/27/2013	9:41	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P003-SG001-130226-001	B73G0	2/26/2013	16:45	2/27/2013	15:49	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P004-SG001-130227-001	B73G1	2/27/2013	9:56	2/28/2013	9:29	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P004-SG002-130227-001	B73G2	2/27/2013	9:58	2/28/2013	9:30	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P005-SG001-130227-001	B73G3	2/27/2013	10:13	2/28/2013	9:43	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P005-SG002-130227-001	B73G4	2/27/2013	10:09	2/28/2013	9:44	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P006-SG001-130227-001	B73G5	2/27/2013	10:23	2/28/2013	9:52	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P006-SG002-130227-001	B73G6	2/27/2013	10:25	2/28/2013	9:54	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG001-130226-001	B73F9	2/26/2013	15:42	2/27/2013	14:27	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG002-130226-001	B73F7	2/26/2013	15:30	2/27/2013	14:25	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG003-130226-001	B73F8	2/26/2013	15:35	2/27/2013	14:26	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG004-130226-001	B73F3	2/26/2013	15:07	2/27/2013	14:20	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG005-130226-001	B73F5	2/26/2013	14:58	2/27/2013	14:18	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P007-SG006-130226-001	B73F6	2/26/2013	15:15	2/27/2013	14:22	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P008-SG001-130312-01	B73H4	3/12/2013	17:36	3/13/2013	17:01	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P009-SG001-130312-01	B73H3	3/12/2013	11:56	3/13/2013	11:43	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P009-SG002-130312-01	B73H2	3/12/2013	11:53	3/13/2013	11:40	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P010-SG001-130312-01	B73H1	3/12/2013	11:22	3/13/2013	11:20	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P010-SG002-130313-01*	B73H5	3/13/2013	11:27	3/14/2013	11:03	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P011-SG001-130312-01	B73G9	3/12/2013	10:06	3/13/2013	9:55	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P012-SG001-130312-01	B73H0	3/12/2013	11:15	3/13/2013	11:08	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
P013-SG001-130312-01	B73G7	3/12/2013	9:51	3/13/2013	9:45	Sub-Slab Soil Gas	VOCs TO-15 (Trace)	Field Sample
TB-130226-01	B73F2	2/26/2013	16:00	2/27/2013	16:00	Trip Blank	VOCs TO-15 (Trace)	Trip Blank
TB-130312-01	B73G8	3/12/2013	16:00	3/13/2013	16:00	Trip Blank	VOCs TO-15 (Trace)	Trip Blank
P014-CB001-001-01	NA	3/14/2013	11:41	NA	NA	Surface Water	TCL VOCs	Field Sample
P014-CB001-001-02	NA	3/14/2013	11:42	NA	NA	Surface Water	TCL VOCs	Field Duplicate
TB-031413	NA	3/14/2013	11:45	NA	NA	Trip Blank	TCL VOCs	Trip Blank

*Notes:*

\* Sample was inadvertently listed as P010-SG001-130313-01 on the Chain of Custody Record.

VOC - Volatile Organic Compound

TO - Target Organic

TCL - Target Compound List

NA - Not Applicable

RST 2 - Removal Support Team 2

**Table 2: TO-15 VOC Validated Analytical Data Summary**  
**Phase I Sub-Slab Soil Gas Samples**  
**Alfred Heller Heat Treating Site**  
**February 27 through March 14, 2013**

RST 2 Sample ID	10x EPA RSL - Residential Air*	EPA Residential Site-Specific Action Level	P002-SG001-130226-001	P003-SG001-130226-001	P004-SG001-130227-001	P004-SG002-130227-001	P005-SG001-130227-001	P005-SG002-130227-001	P006-SG001-130227-001	P006-SG002-130227-001	P007-SG001-130226-001***	
CLP Sample ID			B73F4	B73G0	B73G1	B73G2	B73G3	B73G4	B73G5	B73G6	B73F9	
Sample Stop Date			2/27/2013	2/27/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/28/2013	2/27/2013
Matrix			Sub-Slab Soil Gas	Sub-Slab Soil Gas								
<b>TO-15 VOC (µg/m<sup>3</sup>)</b>												
1,1,1-Trichloroethane	52,000	NS	<b>0.25</b>	<b>3.9</b>	<b>0.54</b>	<b>14</b>	<b>0.21</b>	<b>5.0</b>	0.11 U	0.11 U	<b>0.56</b>	
1,1,2,2-Tetrachloroethane	0.48	NS	0.14 U	0.36 U	<b>0.45</b>	2.7 U	0.14 U	0.34 U	0.14 U	0.14 U	0.34 U	
1,1,2-Trichloroethane	1.8	NS	0.11 U	0.29 U	0.11 U	2.2 U	0.11 U	0.27 U	0.11 U	0.11 U	0.27 U	
1,1-Dichloroethane	18	NS	0.081 U	0.21 U	0.081 U	1.6 U	0.081 U	0.20 U	0.081 U	0.081 U	0.20 U	
1,1-Dichloroethene (1,1-Dichloroethylene)	2,100	NS	0.079 U	0.21 U	0.079 U	1.6 U	0.079 U	0.20 U	0.079 U	0.079 U	0.20 U	
1,2-Dibromoethane	0.047	NS	0.15 U	0.40 U	0.15 U	3.1 U	0.15 U	0.38 U	0.15 U	0.15 U	0.38 U	
1,2-Dichloroethane	1.1	NS	0.16 U	0.42 U	0.16 U	3.2 U	<b>0.48</b>	0.40 U	0.16 U	0.16 U	0.40 U	
1,2-Dichloropropane	2.8	NS	0.18 U	0.49 U	0.18 U	3.7 U	0.18 U	0.46 U	0.18 U	0.18 U	0.46 U	
1,3,5-Trimethylbenzene	NS	NS	0.20 U	0.52 U	0.20 U	3.9 U	<b>0.43</b>	0.49 U	<b>0.26</b>	0.20 U	0.49 U	
3-Chloropropene	4.7	NS	0.13 U	0.33 UJ	0.13 UJ	2.5 UJ	0.13 U	0.31 UJ	0.13 U	0.13 U	0.31 UJ	
4-Ethyltoluene	NS	NS	<b>0.20</b>	0.26 U	0.098 U	2.0 U	<b>0.25</b>	0.25 U	<b>0.17</b>	0.098 U	0.25 U	
Benzene	3.6	NS	<b>0.16</b>	<b>0.19</b>	<b>0.099</b>	1.3 U	<b>2.1</b>	0.16 U	<b>0.22</b>	<b>0.31</b>	<b>0.22</b>	
Bromodichloromethane	0.76	NS	0.13 U	0.35 U	0.13 U	2.7 U	<b>0.25</b>	0.34 U	0.13 U	0.13 U	0.34 U	
Bromoform	26	NS	0.21 U	0.54 UJ	0.21 UJ	4.1 UJ	0.21 U	0.52 UJ	0.21 U	0.21 U	0.52 UJ	
Bromomethane	52	NS	0.16 U	0.41 U	0.16 U	3.1 U	0.16 U	0.39 U	0.16 U	0.16 U	0.39 U	
Carbon Tetrachloride**	4.7	47	<b>1.2</b>	<b>100</b>	<b>6.6</b>	<b>120</b>	<b>0.99</b>	<b>11</b>	<b>0.68</b>	<b>0.60</b>	<b>0.44</b>	
Chloroethane	100,000	NS	0.11 U	0.28 U	0.11 U	2.1 U	0.11 U	0.26 U	0.11 U	0.11 U	0.26 U	
Chloroform	1.2	NS	<b>0.12</b>	<b>1.6</b>	<b>1.5</b>	<b>62</b>	<b>0.77</b>	<b>5.4</b>	<b>0.16</b>	<b>0.14</b>	<b>0.39</b>	
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	NS	NS	0.079 U	0.21 U	0.079 U	<b>3.3</b>	<b>0.26</b>	<b>5.6</b>	<b>0.10</b>	0.079 U	<b>3.1</b>	
cis-1,3-Dichloropropene	NS****	NS	0.091 U	0.24 U	0.091 U	1.8 U	0.091 U	0.23 U	0.091 U	0.091 U	0.23 U	
Dibromochloromethane	1	NS	0.17 U	0.45 U	0.17 U	3.4 U	0.17 U	0.43 U	0.17 U	0.17 U	0.43 U	
Dichlorodifluoromethane	1,000	NS	<b>2.9</b>	<b>3.7 J</b>	<b>3.4 J</b>	<b>5.1 J</b>	<b>3.1</b>	<b>3.7 J</b>	<b>2.8</b>	<b>2.8</b>	<b>3.2 J</b>	
Ethylbenzene	11	NS	<b>0.12</b>	0.23 U	<b>0.13</b>	1.7 U	<b>0.88</b>	0.22 U	<b>1.1</b>	<b>0.23</b>	0.22 U	
Freon 114 (1,2-Dichlorotetrafluoroethane)	NS	NS	0.14 U	0.37 U	0.14 U	2.8 U	0.14 U	0.35 U	0.14 U	0.14 U	0.35 U	
Heptane (n-Heptane)	NS	NS	<b>0.30</b>	0.22 U	0.082 U	1.6 U	<b>2.0</b>	0.20 U	<b>0.41</b>	<b>0.38</b>	<b>0.26</b>	
m,p-Xylene	1,000	NS	<b>0.41</b>	<b>0.65</b>	<b>0.45</b>	3.5 U	<b>3.7</b>	0.43 U	<b>3.6</b>	<b>0.88</b>	0.43 U	
Methyl Tert-Butyl Ether	110	NS	0.072 U	0.19 U	0.072 U	1.4 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	
o-Xylene	1,000	NS	<b>0.15</b>	0.23 U	<b>0.090</b>	1.7 U	<b>1.2</b>	0.22 U	<b>1.1</b>	<b>0.29</b>	0.22 U	
Tetrachloroethene (Tetrachloroethylene, PCE)**	110	1,100	<b>0.38</b>	<b>3.8</b>	<b>2.1</b>	<b>79</b>	<b>0.47</b>	<b>8.5</b>	<b>0.90</b>	<b>0.51</b>	<b>7.0</b>	
Toluene	52,000	NS	<b>1.1</b>	<b>1.9</b>	<b>0.58</b>	<b>11</b>	<b>8.1</b>	<b>0.48</b>	<b>6.1</b>	<b>1.7</b>	<b>1.1</b>	
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	NS	NS	0.079 U	0.21 U	0.079 U	1.6 U	0.079 U	0.20 U	0.079 U	0.079 U	<b>0.59</b>	
trans-1,3-Dichloropropene	NS****	NS	0.091 U	0.24 U	0.091 U	1.8 U	0.091 U	0.23 U	0.091 U	0.091 U	0.23 U	
Trichloroethene (Trichloroethylene, TCE)**	4.8	20	<b>1.2</b>	<b>1.5</b>	<b>9.0</b>	<b>540</b>	<b>0.87</b>	<b>71</b>	<b>2.5</b>	<b>0.89</b>	<b>95</b>	
Trichlorofluoromethane	7,300	NS	<b>1.2</b>	<b>4.4</b>	<b>1.3</b>	<b>3.9</b>	<b>1.2</b>	<b>1.8</b>	<b>1.1</b>	<b>1.2</b>	<b>1.9</b>	
Vinyl Chloride	1.7	NS	0.10 U	0.27 U	0.10 U	2.0 U	0.10 U	0.26 U	0.10 U	0.10 U	0.26 U	

**Notes:**

Sub-slab soil gas and trip blank sample data presented in micrograms per cubic meter (µg/m<sup>3</sup>).

U: Flag indicates the analyte was analyzed for but not detected.

J: Flag indicates an estimated value.

NS: Not Specified.

\*Sub-slab soil gas samples were compared against 10 times the EPA Regional Screening Levels (RSLs) for Residential Air using a target cancer risk (TR) of 1E-06 and a target hazard quotient (THQ) of 1.0, revised November 2014.

\*\* Compound was compared to the current Site-Specific Action Level for sub-slab soil gas in addition to 10 times the EPA RSLs for Residential Air.

\*\*\* Property P007 is a commercial/industrial property and is not compared against 10 times the RSLs for Residential Air. The sub-slab soil gas samples have been compared against the current Commercial/Industrial Site-Specific Action Levels for sub-slab soil gas for PCE (4,700 µg/m<sup>3</sup>), TCE (80 µg/m<sup>3</sup>), and carbon tetrachloride (200 µg/m<sup>3</sup>), and their respective RSL for Industrial Air.

\*\*\*\*No standard for cis-1,3-dichloropropene or trans-1,3-dichloropropene. The residential indoor air standard for 1,3-dichloropropene is 0.7 µg/m<sup>3</sup>.

Exceedances of current EPA Site-Specific Action Levels are highlighted in red. Exceedances of 10 times the EPA RSL are highlighted in yellow.

Site-Specific analytes of concern highlighted in green.

Detected values are bolded.

**Table 2: TO-15 VOC Validated Analytical Data Summary**  
**Phase I Sub-Slab Soil Gas Samples**  
**Alfred Heller Heat Treating Site**  
**February 27 through March 14, 2013**

RST 2 Sample ID	10x EPA RSL - Residential Air*	EPA Residential Site-Specific Action Level	P007-SG002-130226-001***	P007-SG003-130226-001***	P007-SG004-130226-001***	P007-SG005-130226-001***	P007-SG006-130226-001***	P008-SG001-130312-01	P009-SG001-130312-01	P009-SG002-130312-01	P010-SG001-130312-01
CLP Sample ID			B73F7	B73F8	B73F3	B73F5	B73F6	B73H4	B73H3	B73H2	B73H1
Sample Stop Date			2/27/2013	2/27/2013	2/27/2013	2/27/2013	2/27/2013	3/13/2013	3/13/2013	3/13/2013	3/13/2013
Matrix			Sub-Slab Soil Gas	Sub-Slab Soil Gas	Sub-Slab Soil Gas	Sub-Slab Soil Gas	Sub-Slab Soil Gas				
<b>TO-15 VOC (µg/m<sup>3</sup>)</b>											
1,1,1-Trichloroethane	52,000	NS	<b>3.8</b>	<b>1.8</b>	0.11 U	0.11 U	0.11 U	1.1 U	<b>8.0</b>	<b>5.1</b>	1.1 U
1,1,2,2-Tetrachloroethane	0.48	NS	3.4 U	0.14 U	0.14 U	0.14 U	0.14 U	2.1 U	2.1 U	2.1 U	2.1 U
1,1,2-Trichloroethane	1.8	NS	2.7 U	0.11 U	0.11 U	0.11 U	0.11 U	1.1 U	1.1 U	1.1 U	1.1 U
1,1-Dichloroethane	18	NS	2.0 U	0.081 U	0.081 U	0.081 U	0.081 U	0.81 U	0.81 U	0.81 U	0.81 U
1,1-Dichloroethene (1,1-Dichloroethylene)	2,100	NS	2.0 U	0.079 U	0.079 U	0.079 U	0.079 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dibromoethane	0.047	NS	3.8 U	0.15 U	0.15 U	0.15 U	0.15 U	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dichloroethane	1.1	NS	4.0 U	0.16 U	0.16 U	0.16 U	0.16 U	0.81 U	0.81 U	0.81 U	0.81 U
1,2-Dichloropropane	2.8	NS	4.6 U	0.18 U	0.18 U	0.18 U	0.18 U	0.92 U	0.92 U	0.92 U	0.92 U
1,3,5-Trimethylbenzene	NS	NS	4.9 U	0.20 U	0.20 U	0.20 U	0.20 U	0.98 U	0.98 U	0.98 U	0.98 U
3-Chloropropene	4.7	NS	3.1 UJ	0.13 U	0.13 U	0.13 U	0.13 U	1.6 U	1.6 U	1.6 U	1.6 U
4-Ethyltoluene	NS	NS	2.5 U	0.098 U	0.098 U	0.098 U	0.098 U	1.4 U	1.4 U	1.4 U	1.4 U
Benzene	3.6	NS	1.6 U	<b>0.72</b>	<b>0.31</b>	<b>0.072</b>	<b>0.10</b>	0.64 U	0.64 U	0.64 U	<b>1.5</b>
Bromodichloromethane	0.76	NS	3.4 U	<b>2.6</b>	0.13 U	0.13 U	0.13 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	26	NS	5.2 UJ	0.21 U	0.21 U	0.21 U	0.21 U	0.87 U	0.87 U	0.87 U	2.1 U
Bromomethane	52	NS	3.9 U	0.16 U	0.16 U	0.16 U	0.16 U	0.78 U	0.78 U	0.78 U	0.78 U
Carbon Tetrachloride**	4.7	47	3.1 U	<b>0.24</b>	<b>0.62</b>	<b>0.89</b>	0.13 U	1.3 U	<b>3.7</b>	<b>13</b>	1.3 U
Chloroethane	100,000	NS	2.6 U	0.11 U	0.11 U	0.11 U	0.11 U	1.3 U	1.3 U	1.3 U	1.3 U
Chloroform	1.2	NS	<b>36</b>	<b>42</b>	<b>0.47</b>	<b>0.44</b>	<b>1.1</b>	0.98 U	<b>2.1</b>	<b>3.1</b>	0.98 U
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	NS	NS	<b>21</b>	0.079 U	0.079 U	0.079 U	<b>0.14</b>	0.79 U	0.79 U	0.79 U	0.79 U
cis-1,3-Dichloropropene	NS****	NS	2.3 U	0.091 U	0.091 U	0.091 U	0.091 U	0.91 U	0.91 U	0.91 U	0.91 U
Dibromochloromethane	1	NS	4.3 U	0.17 U	0.17 U	0.17 U	0.17 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	1,000	NS	<b>5.8 J</b>	<b>3.3</b>	<b>2.7</b>	<b>3.1</b>	<b>2.8</b>	<b>2.8</b>	2.5 U	<b>2.9</b>	<b>2.9</b>
Ethylbenzene	11	NS	2.2 U	0.087 U	<b>0.85</b>	<b>0.13</b>	0.087 U	0.87 U	0.87 U	0.87 U	<b>0.88</b>
Freon 114 (1,2-Dichlorotetrafluoroethane)	NS	NS	3.5 U	0.14 U	0.14 U	0.14 U	0.14 U	1.4 U	1.4 U	1.4 U	1.4 U
Heptane (n-Heptane)	NS	NS	2.0 U	<b>0.17</b>	<b>0.40</b>	0.082 U	<b>0.20</b>	0.82 U	0.82 U	0.82 U	<b>2.4</b>
m,p-Xylene	1,000	NS	4.3 U	<b>0.24</b>	<b>3.0</b>	<b>0.38</b>	<b>0.26</b>	0.98 U	0.98 U	0.98 U	<b>3.2</b>
Methyl Tert-Butyl Ether	110	NS	1.8 U	<b>1.4</b>	0.072 U	0.072 U	0.072 U	0.72 U	0.72 U	0.72 U	0.72 U
o-Xylene	1,000	NS	2.2 U	0.087 U	<b>0.94</b>	<b>0.094</b>	<b>0.10</b>	2.2 U	2.2 U	2.2 U	<b>0.92</b>
Tetrachloroethene (Tetrachloroethylene, PCE)**	110	1,100	<b>5.6</b>	<b>4.4</b>	<b>0.64</b>	<b>0.84</b>	<b>3.3</b>	1.4 U	<b>11</b>	<b>8.2</b>	<b>2.4</b>
Toluene	52,000	NS	<b>32</b>	<b>0.53</b>	<b>22</b>	<b>1.3</b>	<b>0.38</b>	0.75 U	0.75 U	0.75 U	<b>11</b>
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	NS	NS	<b>5.2</b>	0.079 U	0.079 U	0.079 U	0.079 U	0.79 U	0.79 U	0.79 U	0.79 U
trans-1,3-Dichloropropene	NS****	NS	2.3 U	0.091 U	0.091 U	0.091 U	0.091 U	0.91 U	0.91 U	0.91 U	0.91 U
Trichloroethene (Trichloroethylene, TCE)**	4.8	20	<b>500</b>	<b>21</b>	<b>0.23</b>	<b>3.6</b>	<b>18</b>	1.1 U	1.1 U	<b>6.2</b>	1.1 U
Trichlorofluoromethane	7,300	NS	2.8 U	<b>1.6</b>	<b>1.2</b>	<b>1.2</b>	<b>1.0</b>	<b>1.4</b>	<b>1.7</b>	<b>2.1</b>	<b>1.5</b>
Vinyl Chloride	1.7	NS	2.6 U	0.10 U	0.10 U	0.10 U	0.10 U	0.51 U	0.51 U	0.51 U	0.51 U

**Notes:**

Sub-slab soil gas and trip blank sample data presented in micrograms per cubic meter (µg/m<sup>3</sup>).

U: Flag indicates the analyte was analyzed for but not detected.

J: Flag indicates an estimated value.

NS: Not Specified.

\*Sub-slab soil gas samples were compared against 10 times the EPA Regional Screening Levels (RSLs) for Residential Air using a target cancer risk (TR) of 1E-06 and a target hazard quotient (THQ) of 1.0, revised November 2014.

\*\* Compound was compared to the current Site-Specific Action Level for sub-slab soil gas in addition to 10 times the EPA RSLs for Residential Air.

\*\*\* Property P007 is a commercial/industrial property and is not compared against 10 times the RSLs for Residential Air. The sub-slab soil gas samples have been compared against the current Commercial/Industrial Site-Specific Action Levels for sub-slab soil gas for PCE (4,700 µg/m<sup>3</sup>), TCE (80 µg/m<sup>3</sup>), and carbon tetrachloride (200 µg/m<sup>3</sup>), and their respective RSL for Industrial Air.

\*\*\*\*No standard for cis-1,3-dichloropropene or trans-1,3-dichloropropene. The residential indoor air standard for 1,3-dichloropropene is 0.7 µg/m<sup>3</sup>.

Exceedances of current EPA Site-Specific Action Levels are highlighted in red. Exceedances of 10 times the EPA RSL are highlighted in yellow.

Site-Specific analytes of concern highlighted in green.

Detected values are bolded.

**Table 2: TO-15 VOC Validated Analytical Data Summary**  
**Phase I Sub-Slab Soil Gas Samples**  
**Alfred Heller Heat Treating Site**  
**February 27 through March 14, 2013**

RST 2 Sample ID	10x EPA RSL - Residential Air*	EPA Residential Site-Specific Action Level	P010-SG002-130313-01	P011-SG001-130312-01	P012-SG001-130312-01	P013-SG001-130312-01	TB-130226-01	TB-130312-01
CLP Sample ID			B73H5	B73G9	B73H0	B73G7	B73F2	B73G8
Sample Stop Date			3/14/2013	3/13/2013	3/13/2013	3/13/2013	2/27/2013	3/13/2013
Matrix			Sub-Slab Soil Gas	Sub-Slab Soil Gas	Sub-Slab Soil Gas	Sub-Slab Soil Gas	Trip Blank	Trip Blank
<b>TO-15 VOC (µg/m<sup>3</sup>)</b>								
1,1,1-Trichloroethane	52,000	NS	<b>7.3</b>	<b>13</b>	<b>1.2</b>	<b>11</b>	0.11 U	0.11 U
1,1,2,2-Tetrachloroethane	0.48	NS	2.1 U	2.1 U	2.1 U	2.1 U	0.14 U	0.14 U
1,1,2-Trichloroethane	1.8	NS	1.1 U	1.1 U	1.1 U	1.1 U	0.11 U	0.11 U
1,1-Dichloroethane	18	NS	0.81 U	0.81 U	0.81 U	<b>1.4</b>	0.081 U	0.081 U
1,1-Dichloroethene (1,1-Dichloroethylene)	2,100	NS	0.79 U	0.79 U	0.79 U	<b>7.3</b>	0.079 U	0.079 U
1,2-Dibromoethane	0.047	NS	1.5 U	1.5 U	1.5 U	1.5 U	0.15 U	0.15 U
1,2-Dichloroethane	1.1	NS	0.81 U	0.81 U	0.81 U	0.81 U	0.16 U	0.16 U
1,2-Dichloropropane	2.8	NS	0.92 U	0.92 U	0.92 U	0.92 U	0.18 U	0.18 U
1,3,5-Trimethylbenzene	NS	NS	0.98 U	0.98 U	0.98 U	0.98 U	0.20 U	0.20 UJ
3-Chloropropene	4.7	NS	1.6 U	1.6 U	1.6 U	1.6 U	0.13 U	0.13 U
4-Ethyltoluene	NS	NS	1.4 U	1.4 U	1.4 U	1.4 U	0.098 U	0.098 UJ
Benzene	3.6	NS	0.64 U	0.64 U	0.64 U	<b>0.63</b>	0.064 U	0.064 U
Bromodichloromethane	0.76	NS	1.3 U	1.3 U	1.3 U	1.3 U	0.13 U	0.13 U
Bromoform	26	NS	0.87 U	0.87 U	0.87 U	0.87 U	0.21 U	0.21 U
Bromomethane	52	NS	0.78 U	0.78 U	0.78 U	0.78 U	0.16 U	0.16 U
Carbon Tetrachloride**	4.7	47	<b>130</b>	<b>12</b>	<b>11</b>	<b>220</b>	0.13 U	0.13 U
Chloroethane	100,000	NS	1.3 U	1.3 U	1.3 U	1.3 U	0.11 U	0.11 U
Chloroform	1.2	NS	<b>16</b>	<b>11</b>	<b>3.4</b>	<b>45</b>	0.098 U	0.098 U
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	NS	NS	0.79 U	0.79 U	0.79 U	<b>36</b>	0.079 U	0.079 U
cis-1,3-Dichloropropene	NS****	NS	0.91 U	0.91 U	0.91 U	0.91 U	0.091 U	0.091 U
Dibromochloromethane	1	NS	1.7 U	1.7 U	1.7 U	1.7 U	0.17 U	0.17 U
Dichlorodifluoromethane	1,000	NS	2.5 U	2.5 U	<b>2.9</b>	2.5 U	0.099 U	0.099 U
Ethylbenzene	11	NS	0.87 U	0.87 U	0.87 U	0.87 U	0.087 U	0.087 U
Freon 114 (1,2-Dichlorotetrafluoroethane)	NS	NS	1.4 U	1.4 U	1.4 U	1.4 U	0.14 U	0.14 U
Heptane (n-Heptane)	NS	NS	0.82 U	<b>1.4</b>	0.82 U	0.82 U	0.082 U	0.082 U
m,p-Xylene	1,000	NS	0.98 U	0.98 U	0.98 U	0.98 U	0.17 U	0.17 U
Methyl Tert-Butyl Ether	110	NS	0.72 U	0.72 U	0.72 U	0.72 U	0.072 U	0.072 U
o-Xylene	1,000	NS	2.2 U	2.2 U	2.2 U	2.2 U	0.087 U	0.087 UJ
Tetrachloroethene (Tetrachloroethylene, PCE)**	110	1,100	<b>10</b>	<b>35</b>	<b>3.5</b>	<b>62</b>	0.14 U	0.14 U
Toluene	52,000	NS	0.75 U	0.75 U	0.75 U	<b>2.2</b>	0.075 U	0.075 U
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	NS	NS	0.79 U	0.79 U	0.79 U	<b>0.77</b>	0.079 U	0.079 U
trans-1,3-Dichloropropene	NS****	NS	0.91 U	0.91 U	0.91 U	0.91 U	0.091 U	0.091 U
Trichloroethene (Trichloroethylene, TCE)**	4.8	20	<b>45</b>	<b>71</b>	<b>5.6</b>	<b>370</b>	0.11 U	0.11 U
Trichlorofluoromethane	7,300	NS	<b>3.6</b>	<b>1.5</b>	<b>1.8</b>	<b>2.5</b>	0.11 U	0.11 U
Vinyl Chloride	1.7	NS	0.51 U	0.51 U	0.51 U	0.51 U	0.10 U	0.10 U

**Notes:**

Sub-slab soil gas and trip blank sample data presented in micrograms per cubic meter (µg/m<sup>3</sup>).

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\*Sub-slab soil gas samples were compared against 10 times the EPA Regional Screening Levels (RSLs) for Residential Air using a target cancer risk (TR) of 1E-06 and a target hazard quotient (THQ) of 1.0, revised November 2014.

\*\* Compound was compared to the current Site-Specific Action Level for sub-slab soil gas in addition to 10 times the EPA RSLs for Residential Air.

\*\*\* Property P007 is a commercial/industrial property and is not compared against 10 times the RSLs for Residential Air. The sub-slab soil gas samples have been compared against the current Commercial/Industrial Site-Specific Action Levels for sub-slab soil gas for PCE (4,700 µg/m<sup>3</sup>), TCE (80 µg/m<sup>3</sup>), and carbon tetrachloride (200 µg/m<sup>3</sup>), and their respective RSL for Industrial Air.

\*\*\*\*No standard for cis-1,3-dichloropropene or trans-1,3-dichloropropene. The residential indoor air standard for 1,3-dichloropropene is 0.7 µg/m<sup>3</sup>.

Exceedances of current EPA Site-Specific Action Levels are highlighted in red. Exceedances of 10 times the EPA RSL are highlighted in yellow.

Site-Specific analytes of concern highlighted in green.

Detected values are bolded.

**Table 3: TCL VOC Validated Analytical Data Summary**  
**Phase I Surface Water Samples**  
**Alfred Heller Heat Treating Site**  
**March 14, 2013**

RST 2 Sample ID	N.J.A.C. Surface Water Quality Standards	P014-CB001-001-01	P014-CB001-001-02	TB-031413
Sample Date		3/14/2013	3/14/2013	3/14/2013
Matrix		Surface Water	Surface Water	Trip Blank
<b>TCL VOC</b>				
Dichlorodifluoromethane	NS	5.0 U	5.0 U	5.0 U
Chloromethane	NS	5.0 U	5.0 U	5.0 U
Vinyl Chloride	0.082	5.0 U	5.0 U	5.0 U
Bromomethane	47	5.0 U	5.0 U	5.0 U
Chloroethane	NS	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	NS	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	4.7	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	5.0 U	5.0 U	5.0 U
Carbon Disulfide	NS	5.0 U	5.0 U	5.0 U
Acetone	NS	10 U	10 U	10 U
Methyl Acetate	NS	5.0 U	5.0 U	5.0 U
Methylene Chloride	2.5	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	590	5.0 U	5.0 U	5.0 U
Methyl tert-Butyl Ether	70	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	NS	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	NS	5.0 U	5.0 U	5.0 U
2-Butanone	NS	10 U	10 U	10 U
Bromochloromethane	NS	5.0 U	5.0 U	5.0 U
Chloroform	68	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	120	5.0 U	5.0 U	5.0 U
Cyclohexane	NS	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	0.33	<b>9.5</b>	<b>10</b>	5.0 U
Benzene	0.15	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	0.29	5.0 U	5.0 U	5.0 U
Trichloroethene	1.0	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	0.50	5.0 U	5.0 U	5.0 U
Bromodichloromethane	0.55	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.34	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	NS	10 U	10 U	10 U
Toluene	1,300	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.34	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	13	5.0 U	5.0 U	5.0 U
Tetrachloroethene	0.34	5.0 UJ	5.0 UJ	5.0 UJ
Methylcyclohexane	NS	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.40	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	NS	5.0 U	5.0 U	5.0 U
2-Hexanone	NS	10 U	10 U	10 U
Chlorobenzene	210	5.0 U	5.0 U	5.0 U
Ethylbenzene	530	5.0 U	5.0 U	5.0 U
m/p-Xylene	NS	5.0 U	5.0 U	5.0 U
o-Xylene	NS	5.0 U	5.0 U	5.0 U
Styrene	NS	5.0 U	5.0 U	5.0 U
Bromoform	4.3	5.0 U	5.0 U	5.0 U
Isopropylbenzene	NS	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	4.7	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	2,200	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	550	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	2,000	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane	NS	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	21	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	NS	5.0 U	5.0 U	5.0 U

**Notes:**

Surface water and trip blank sample data presented in micrograms per liter (µg/L).

U: Flag indicates the analyte was analyzed for but not detected.

NS: Not Specified.

Surface water samples were compared against the New Jersey Administrative Code (NJAC) 7:9B,

Surface Water Quality Standards, amended January 18, 2011.

Exceedances of NJAC Surface Water Quality Standards are highlighted in yellow and bolded.

# **ATTACHMENT C**

Chain of Custody Records









# **ATTACHMENT D**

Photographic Documentation Log

Photographic Documentation Log  
Alfred Heller Heat Treating Site  
February 26, 2013 through March 14, 2013



**Photograph 1:** General overview of the basement at Property P004 prior to port installation on February 26, 2013.



**Photograph 2:** Sample location P004-SG002 installed below basement stairs at Property P004 on February 26, 2013.

Photographic Documentation Log  
Alfred Heller Heat Treating Site  
February 26, 2013 through March 14, 2013



**Photograph 3:** Sample No. P004-SG002-130227-001 deployed on February 27, 2013.



**Photograph 4:** Port installed at Property P008 on February 27, 2013.



**Photograph 5:** RST 2 and EPA DESA personnel install inlet tubing for sub-slab soil gas sampling and record start time and initial vacuum pressure of the Summa canister on March 12, 2013.



**Photograph 6:** View of Summa canister deployed at sample location P008-SG001 on March 13, 2013.



**Photograph 7:** RST 2 noted the vacuum reading on the pressure gauge before stopping Sample No. P008-SG001-130312-01 on March 13, 2013.

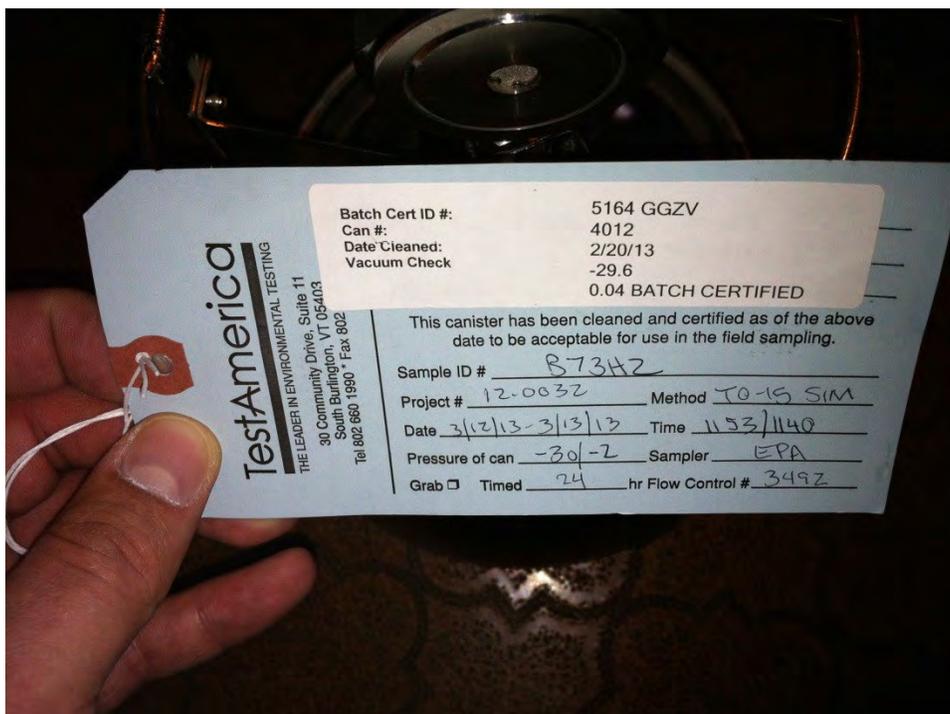


**Photograph 8:** Port installation at Property P010 on February 27, 2013.

Photographic Documentation Log  
 Alfred Heller Heat Treating Site  
 February 26, 2013 through March 14, 2013



**Photograph 9:** View of Summa canister deployed at sample location P010-SG001 on March 12, 2013.



**Photograph 10:** Team records final sample time and pressure reading for Sample No. P010-SG001-130312-01 on March 13, 2013.

# **ATTACHMENT E**

Validated Laboratory Data Packages





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 2**  
**DESA/HWSB/HWSS**  
**2890, Woodbridge Avenue, Edison, NJ 08837**

<b>Data Qualifier Definitions (National Functional Guidelines)</b>			
<b>Qualifier Symbol</b>	<b>Explanation</b>		
	<b>INORGANICS</b>	<b>ORGANICS</b>	<b>CHLORINATED DIOXIN/FURAN</b>
<b>U</b>	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
<b>J</b>	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
<b>J +</b>	The result is an estimated quantity, but the result may be biased high.		
<b>J -</b>	The result is an estimated quantity, but the result may be biased low.		
<b>UJ</b>	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
<b>R</b>	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
<b>N</b>		<i>The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".</i>	
<b>NJ</b>		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
<b>C</b>		This qualifier applies to <b>pesticide and Aroclor</b> results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
<b>X</b>		This qualifier applies to <b>pesticide and Aroclor</b> results when GC/MS analysis was attempted but was unsuccessful.	



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## DATA ASSESSMENT

Data Validation report for Organic Analysis pursuant to the standard operating procedure (SOP) HW-31/VOA (Revision 5) entitled "Volatile Organic Analysis of Ambient Air in Canister by Method TO-15)

### 1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems were found for this qualification.

### 2. Leak Test Evaluation:

All canisters are leak tested prior to each sampling use. The initial pressure (approximately 206 kPa or 30 psi) is measured, the canister valve is closed, and the final pressure is checked after 24 hours. If acceptable, the pressure should not vary more than 13.8 kPa (2 psig) over the 24-hour period.

No problems were found for this qualification.

### 3. Canister Certification:

Canister certification involves two procedures: Blank Analysis and Blank Spike Analysis. The canister is "Certified Clean" if target analytes are < 0.2 ppbv. For the spiked canister, the acceptable % difference for any target compound at a nominal 10-ppbv concentration in humidified zero air is <30%.

No problems were found for this qualification.

### 4. Laboratory Control/Lab Control Duplicate Recovery (LCS/LCSD):

The LCS/LCS Duplicate data is generated to determine the long-term precision and accuracy of the analytical method. The LCS/LCS Duplicate may be used in conjunction with other QC criteria for additional qualification of data. The LCS is analyzed once per 24-hour analytical sequence and concurrently with the samples in the SDG. Percent recovery (%R) is expected in 70-130 % range. Relative percent difference (RPD) limit between LCS and LCSD is expected to be 25.

LCS/LCSD % recovery were greater than QC limits for 1,2 Dichlorotetrafluoroethane and Dichlorodifluoromethane. Positive results are estimated "J" for these two compounds.

B73F7, B73F9, B73G0, B73G1, B73G2, B73G4.



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#### 5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples throughout field operations. If the concentration of the analyte is less than or equal five times (5X) the method blank concentration, the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified with "U" for these reasons:

**A) Method blank contamination:**

No problems were found for this qualification.

**B) Trip / Field or rinse blank contamination:**

No problems were found for this qualification.

**C) TIC's "R" rejected:**

Not applicable.

#### 6. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this qualification.

#### 7. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance. Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be  $\pm 30\%$  for all Target analytes. %D must be  $\pm 30\%$  for all Target analytes. A value outside of these limits indicates



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potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

Continuing calibration % D is greater than the QC limit for 3 chloropropene, Bromoform. Detects and non-detects are estimated an qualified "J".

B73F7, B73F9, B73G0, B73G1, B73G2, B73G4.

#### 8. INTERNAL STANDARDS PERFORMANCE:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than 40% from the most recent valid calibration standard area. The retention time of the internal standard must not vary more than  $\pm$  20 seconds from the latest daily (24-hour) calibration standard. If the area count is greater the 40% range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated "J", and all non-detects are not flagged. If the area count is less than the 40% range of the associated standard, all of the positive results for compounds quantitated with that IS are qualified as estimated "J", and all non-detects are qualified as unusable "UJ". If the area count is < 25%, flag all non-detects as unusable "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems were found for this qualification.

#### 9. COMPOUND IDENTIFICATION:

Compounds on the target analyte list (TCL) are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems were found for this qualification.

#### 10. CONTRACT PROBLEMS NON-COMPLIANCE:

Excel EDD deliverables data analysis result unit values are in **ppb v/v** only. Per contract, these data results should also be reported in **µg/m<sup>3</sup>**.

No problems were found for this qualification

#### 11. FIELD DOCUMENTATION:

No problems were noted.



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**12. OTHER CONSIDERATIONS:**

SDG narrative does not contain signature of the person responsible. It also does not contain statement of responsibility.

**13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:**

**Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following reports were identified not to be used.**

This data package does contain dilution, B73F3, B73F7, B73F8, B73F9, B73G0, B73G2, B73G3, B73G4.

**METHOD / ANALYST SUMMARY**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA TO15 LL	Desjardins, William R	WRD

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F2

Lab Sample ID: 200-15277-1TB

Date Sampled: 02/27/2013 1600

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg24.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 1042			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 1042			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.020	U	0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.020	U	0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.020	U	0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.020	U	0.020	0.020
Benzene	0.020	U	0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.020	U	0.020	0.020
Trichloroethene	0.020	U	0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.020	U	0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.020	U	0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.020	U	0.020	0.020
o-Xylene	0.020	U	0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.040	U	0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	0.099	U	0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	0.11	U	0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

**Client Sample ID:** B73F2

Lab Sample ID: 200-15277-1TB

Date Sampled: 02/27/2013 1600

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg24.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 1042			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 1042			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.098	U	0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.13	U	0.13	0.13
Benzene	0.064	U	0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.082	U	0.082	0.082
Trichloroethene	0.11	U	0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	0.075	U	0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.14	U	0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.087	U	0.087	0.087
o-Xylene	0.087	U	0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.17	U	0.17	0.17

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F3

Lab Sample ID: 200-15277-2

Date Sampled: 02/27/2013 1420

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg07.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 1934			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 1934			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.55		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.22		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.096		0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.098		0.020	0.020
Benzene	0.098		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.097		0.020	0.020
Trichloroethene	0.043		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	5.2	<del>E</del>	0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.094		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.19		0.020	0.020
o-Xylene	0.22		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.70		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.7		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.2		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73F3**

Lab Sample ID: 200-15277-2

Date Sampled: 02/27/2013 1420

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg07.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 1934			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 1934			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.47		0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.62		0.13	0.13
Benzene	0.31		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.40		0.082	0.082
Trichloroethene	0.23		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	<del>0.20</del> 22	<del>E</del>	0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.64		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.85		0.087	0.087
o-Xylene	0.94		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	3.0		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73F3

Lab Sample ID: 200-15277-2  
Client Matrix: Air

Date Sampled: 02/27/2013 1420  
Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh06.d
Dilution:	7.94			Initial Weight/Volume:	63 mL
Analysis Date:	03/19/2013 1919	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 1919			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.99	D*	0.079	0.079
1,2-Dichlorotetrafluoroethane	0.079	U*	0.079	0.079
Vinyl chloride	0.16	U	0.16	0.16
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.16	U	0.16	0.16
Trichlorofluoromethane	0.37	D	0.079	0.079
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.16	U	0.16	0.16
Methyl tert-butyl ether	0.079	U	0.079	0.079
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.079	U	0.079	0.079
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.14	D	0.079	0.079
1,1,1-Trichloroethane	0.079	U	0.079	0.079
Carbon tetrachloride	0.18	D	0.079	0.079
Benzene	0.13	D	0.079	0.079
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.079	U	0.079	0.079
Trichloroethene	0.079	U	0.079	0.079
1,2-Dichloropropane	0.16	U	0.16	0.16
Bromodichloromethane	0.079	U	0.079	0.079
cis-1,3-Dichloropropene	0.079	U	0.079	0.079
Toluene	0.59	D	0.079	0.079
trans-1,3-Dichloropropene	0.079	U	0.079	0.079
1,1,2-Trichloroethane	0.079	U	0.079	0.079
Tetrachloroethene	0.12	D	0.079	0.079
Dibromochloromethane	0.079	U	0.079	0.079
1,2-Dibromoethane	0.079	U	0.079	0.079
Ethylbenzene	0.22	D	0.079	0.079
o-Xylene	0.30	D*	0.079	0.079
Bromoform	0.079	U	0.079	0.079
1,1,2,2-Tetrachloroethane	0.079	U	0.079	0.079
4-Ethyltoluene	0.079	U*	0.079	0.079
1,3,5-Trimethylbenzene	0.16	U*	0.16	0.16
m-Xylene & p-Xylene	0.66	D*	0.16	0.16

Do Not Use

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	4.9	D*	0.39	0.39
1,2-Dichlorotetrafluoroethane	0.56	U*	0.56	0.56
Vinyl chloride	0.41	U	0.41	0.41
Bromomethane	0.62	U	0.62	0.62
Chloroethane	0.42	U	0.42	0.42
Trichlorofluoromethane	2.1	D	0.45	0.45
1,1-Dichloroethene	0.31	U	0.31	0.31
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.29	U*	0.29	0.29

### Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F3

Lab Sample ID: 200-15277-2

Date Sampled: 02/27/2013 1420

Client Matrix: Air

Date Received: 03/01/2013 0755

#### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh06.d
Dilution:	7.94			Initial Weight/Volume:	63 mL
Analysis Date:	03/19/2013 1919	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 1919			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.31	U	0.31	0.31
1,1-Dichloroethane	0.32	U	0.32	0.32
cis-1,2-Dichloroethene	0.31	U	0.31	0.31
Chloroform	0.70	D	0.39	0.39
1,1,1-Trichloroethane	0.43	U	0.43	0.43
Carbon tetrachloride	1.1	D	0.50	0.50
Benzene	0.42	D	0.25	0.25
1,2-Dichloroethane	0.64	U	0.64	0.64
n-Heptane	0.33	U	0.33	0.33
Trichloroethene	0.43	U	0.43	0.43
1,2-Dichloropropane	0.73	U	0.73	0.73
Bromodichloromethane	0.53	U	0.53	0.53
cis-1,3-Dichloropropene	0.36	U	0.36	0.36
Toluene	22	D	0.30	0.30
trans-1,3-Dichloropropene	0.36	U	0.36	0.36
1,1,2-Trichloroethane	0.43	U	0.43	0.43
Tetrachloroethene	0.81	D	0.54	0.54
Dibromochloromethane	0.68	U	0.68	0.68
1,2-Dibromoethane	0.61	U	0.61	0.61
Ethylbenzene	0.94	D	0.34	0.34
o-Xylene	1.3	D*	0.34	0.34
Bromoform	0.82	U	0.82	0.82
1,1,2,2-Tetrachloroethane	0.55	U	0.55	0.55
4-Ethyltoluene	0.39	U*	0.39	0.39
1,3,5-Trimethylbenzene	0.78	U*	0.78	0.78
m-Xylene & p-Xylene	2.9	D*	0.69	0.69

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F4

Lab Sample ID: 200-15277-3

Date Sampled: 02/27/2013 0941

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg08.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2027			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2027			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.59		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.22		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.025		0.020	0.020
1,1,1-Trichloroethane	0.046		0.020	0.020
Carbon tetrachloride	0.19		0.020	0.020
Benzene	0.051		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.074		0.020	0.020
Trichloroethene	0.21		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.30		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.056		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.027		0.020	0.020
o-Xylene	0.035		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.040		0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.094		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.9		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.2		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F4

Lab Sample ID: 200-15277-3

Date Sampled: 02/27/2013 0941

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg08.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2027			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2027			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.12		0.098	0.098
1,1,1-Trichloroethane	0.25		0.11	0.11
Carbon tetrachloride	1.2		0.13	0.13
Benzene	0.16		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.30		0.082	0.082
Trichloroethene	1.2		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	1.1		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.38		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.12		0.087	0.087
o-Xylene	0.15		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.20		0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.41		0.17	0.17

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F5

Lab Sample ID: 200-15277-4

Date Sampled: 02/27/2013 1418

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg09.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2121			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2121			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.63		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.21		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.091		0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.14		0.020	0.020
Benzene	0.022		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.020	U	0.020	0.020
Trichloroethene	0.67		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.35		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.12		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.030		0.020	0.020
o-Xylene	0.022		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.088		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.1		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.2		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F5

Lab Sample ID: 200-15277-4

Date Sampled: 02/27/2013 1418

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg09.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2121			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2121			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.44		0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.89		0.13	0.13
Benzene	0.072		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.082	U	0.082	0.082
Trichloroethene	3.6		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	1.3		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.84		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.13		0.087	0.087
o-Xylene	0.094		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,2,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.38		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F6

Lab Sample ID: 200-15277-5

Client Matrix: Air

Date Sampled: 02/27/2013 1422

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg11.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2307			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2307			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.57		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.18		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.036		0.020	0.020
Chloroform	0.23		0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.020	U	0.020	0.020
Benzene	0.032		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.050		0.020	0.020
Trichloroethene	3.1 33	E	0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.10		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.48		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.020	U	0.020	0.020
o-Xylene	0.024		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.060		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.8		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.0		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F6

Lab Sample ID: 200-15277-5

Date Sampled: 02/27/2013 1422

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg11.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/18/2013 2307			Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 2307			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.14		0.079	0.079
Chloroform	1.1		0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.13	U	0.13	0.13
Benzene	0.10		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.20		0.082	0.082
Trichloroethene	<del>17</del> 18	<del>E</del>	0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	0.38		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	3.3		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.087	U	0.087	0.087
o-Xylene	0.10	U	0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,2,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.26		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73F6

Lab Sample ID: 200-15277-5  
Client Matrix: Air

Date Sampled: 02/27/2013 1422  
Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh07.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/19/2013 2013	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2013			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.72	D*	0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U*	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Trichlorofluoromethane	0.19	D	0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methyl tert-butyl ether	0.040	U*	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.26	D	0.040	0.040
1,1,1-Trichloroethane	0.040	U	0.040	0.040
Carbon tetrachloride	0.040	U	0.040	0.040
Benzene	0.043	D	0.040	0.040
1,2-Dichloroethane	0.080	U	0.080	0.080
n-Heptane	0.040	U	0.040	0.040
Trichloroethene	3.3	D	0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	0.11	D	0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.46	D	0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.040	U	0.040	0.040
o-Xylene	0.040	U*	0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.040	U*	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U*	0.080	0.080
m-Xylene & p-Xylene	0.080	U*	0.080	0.080

Do Not Use

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.6	D*	0.20	0.20
1,2-Dichlorotetrafluoroethane	0.28	U*	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Trichlorofluoromethane	1.1	D	0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methyl tert-butyl ether	0.14	U*	0.14	0.14

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73F6**

Lab Sample ID: 200-15277-5

Date Sampled: 02/27/2013 1422

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh07.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/19/2013 2013	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2013			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
Chloroform	1.3	D	0.20	0.20
1,1,1-Trichloroethane	0.22	U	0.22	0.22
Carbon tetrachloride	0.25	U	0.25	0.25
Benzene	0.14	D	0.13	0.13
1,2-Dichloroethane	0.32	U	0.32	0.32
n-Heptane	0.16	U	0.16	0.16
Trichloroethene	18	D	0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	0.40	D	0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	3.1	D	0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.17	U	0.17	0.17
o-Xylene	0.17	U*	0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.20	U*	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U*	0.39	0.39
m-Xylene & p-Xylene	0.35	U*	0.35	0.35

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73F7

Lab Sample ID: 200-15277-6  
Client Matrix: Air

Date Sampled: 02/27/2013 1425  
Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh12.d
Dilution:	50			Initial Weight/Volume:	438 mL
Analysis Date:	03/20/2013 0043			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0043			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	1.2	U*	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.50	U*	0.50	0.50
Vinyl chloride	1.0	U	1.0	1.0
Bromomethane	1.0	U	1.0	1.0
Chloroethane	1.0	U	1.0	1.0
Trichlorofluoromethane	0.50	U	0.50	0.50
1,1-Dichloroethene	0.50	U	0.50	0.50
3-Chloropropene	1.0	U*	1.0	1.0
Methyl tert-butyl ether	0.50	U*	0.50	0.50
trans-1,2-Dichloroethene	1.3		0.50	0.50
1,1-Dichloroethane	0.50	U	0.50	0.50
cis-1,2-Dichloroethene	5.2		0.50	0.50
Chloroform	7.3		0.50	0.50
1,1,1-Trichloroethane	0.70		0.50	0.50
Carbon tetrachloride	0.50	U	0.50	0.50
Benzene	0.50	U	0.50	0.50
1,2-Dichloroethane	1.0	U	1.0	1.0
n-Heptane	0.50	U	0.50	0.50
Trichloroethene	120	U*	0.50	0.50
1,2-Dichloropropane	1.0	U	1.0	1.0
Bromodichloromethane	0.50	U	0.50	0.50
cis-1,3-Dichloropropene	0.50	U	0.50	0.50
Toluene	8.6		0.50	0.50
trans-1,3-Dichloropropene	0.50	U	0.50	0.50
1,1,2-Trichloroethane	0.50	U	0.50	0.50
Tetrachloroethene	0.83		0.50	0.50
Dibromochloromethane	0.50	U	0.50	0.50
1,2-Dibromoethane	0.50	U	0.50	0.50
Ethylbenzene	0.50	U	0.50	0.50
o-Xylene	0.50	U*	0.50	0.50
Bromoform	0.50	U*	0.50	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50
4-Ethyltoluene	0.50	U*	0.50	0.50
1,3,5-Trimethylbenzene	1.0	U*	1.0	1.0
m-Xylene & p-Xylene	1.0	U*	1.0	1.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	5.8	U*	2.5	2.5
1,2-Dichlorotetrafluoroethane	3.5	U*	3.5	3.5
Vinyl chloride	2.6	U	2.6	2.6
Bromomethane	3.9	U	3.9	3.9
Chloroethane	2.6	U	2.6	2.6
Trichlorofluoromethane	2.8	U	2.8	2.8
1,1-Dichloroethene	2.0	U	2.0	2.0
3-Chloropropene	3.1	U*	3.1	3.1
Methyl tert-butyl ether	1.8	U*	1.8	1.8

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F7

Lab Sample ID: 200-15277-6

Date Sampled: 02/27/2013 1425

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh12.d
Dilution:	50			Initial Weight/Volume:	438 mL
Analysis Date:	03/20/2013 0043			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0043			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	5.2		2.0	2.0
1,1-Dichloroethane	2.0	U	2.0	2.0
cis-1,2-Dichloroethene	21		2.0	2.0
Chloroform	36		2.4	2.4
1,1,1-Trichloroethane	3.8		2.7	2.7
Carbon tetrachloride	3.1	U	3.1	3.1
Benzene	1.6	U	1.6	1.6
1,2-Dichloroethane	4.0	U	4.0	4.0
n-Heptane	2.0	U	2.0	2.0
Trichloroethene	<del>640</del> 500	<del>E</del>	2.7	2.7
1,2-Dichloropropane	4.6	U	4.6	4.6
Bromodichloromethane	3.4	U	3.4	3.4
cis-1,3-Dichloropropene	2.3	U	2.3	2.3
Toluene	32		1.9	1.9
trans-1,3-Dichloropropene	2.3	U	2.3	2.3
1,1,2-Trichloroethane	2.7	U	2.7	2.7
Tetrachloroethene	5.6		3.4	3.4
Dibromochloromethane	4.3	U	4.3	4.3
1,2-Dibromoethane	3.8	U	3.8	3.8
Ethylbenzene	2.2	U	2.2	2.2
o-Xylene	2.2	U*	2.2	2.2
Bromoform	5.2	U†	5.2	5.2
1,1,2,2-Tetrachloroethane	3.4	U	3.4	3.4
4-Ethyltoluene	2.5	U*	2.5	2.5
1,3,5-Trimethylbenzene	4.9	U*	4.9	4.9
m-Xylene & p-Xylene	4.3	U*	4.3	4.3

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F7

Lab Sample ID: 200-15277-6

Date Sampled: 02/27/2013 1425

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh13.d
Dilution:	249			Initial Weight/Volume:	88 mL
Analysis Date:	03/20/2013 0137	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0137			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U*	2.5	2.5
1,2-Dichlorotetrafluoroethane	2.5	U*	2.5	2.5
Vinyl chloride	5.0	U	5.0	5.0
Bromomethane	5.0	U	5.0	5.0
Chloroethane	5.0	U	5.0	5.0
Trichlorofluoromethane	2.5	U	2.5	2.5
1,1-Dichloroethene	2.5	U	2.5	2.5
3-Chloropropene	5.0	U	5.0	5.0
Methyl tert-butyl ether	2.5	U*	2.5	2.5
trans-1,2-Dichloroethene	2.5	U	2.5	2.5
1,1-Dichloroethane	2.5	U	2.5	2.5
cis-1,2-Dichloroethene	4.1	D	2.5	2.5
Chloroform	6.8	D	2.5	2.5
1,1,1-Trichloroethane	2.5	U	2.5	2.5
Carbon tetrachloride	2.5	U	2.5	2.5
Benzene	2.5	U	2.5	2.5
1,2-Dichloroethane	5.0	U	5.0	5.0
n-Heptane	2.5	U	2.5	2.5
Trichloroethene	93	D	2.5	2.5
1,2-Dichloropropane	5.0	U	5.0	5.0
Bromodichloromethane	2.5	U	2.5	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	2.5
Toluene	5.5	D	2.5	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	2.5
1,1,2-Trichloroethane	2.5	U	2.5	2.5
Tetrachloroethene	2.5	U	2.5	2.5
Dibromochloromethane	2.5	U	2.5	2.5
1,2-Dibromoethane	2.5	U	2.5	2.5
Ethylbenzene	2.5	U	2.5	2.5
o-Xylene	2.5	U*	2.5	2.5
Bromoform	2.5	U	2.5	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	2.5
4-Ethyltoluene	2.5	U*	2.5	2.5
1,3,5-Trimethylbenzene	5.0	U*	5.0	5.0
m-Xylene & p-Xylene	5.0	U*	5.0	5.0

*Do Not Use*

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	12	U*	12	12
1,2-Dichlorotetrafluoroethane	17	U*	17	17
Vinyl chloride	13	U	13	13
Bromomethane	19	U	19	19
Chloroethane	13	U	13	13
Trichlorofluoromethane	14	U	14	14
1,1-Dichloroethene	9.9	U	9.9	9.9
3-Chloropropene	16	U	16	16
Methyl tert-butyl ether	9.0	U*	9.0	9.0

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F7

Lab Sample ID: 200-15277-6

Date Sampled: 02/27/2013 1425

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.I
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh13.d
Dilution:	249	Run Type:	DL	Initial Weight/Volume:	88 mL
Analysis Date:	03/20/2013 0137			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0137			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	9.9	U	9.9	9.9
1,1-Dichloroethane	10	U	10	10
cis-1,2-Dichloroethene	16	D	9.9	9.9
Chloroform	33	D	12	12
1,1,1-Trichloroethane	14	U	14	14
Carbon tetrachloride	16	U	16	16
Benzene	8.0	U	8.0	8.0
1,2-Dichloroethane	20	U	20	20
n-Heptane	10	U	10	10
Trichloroethene	500	D	13	13
1,2-Dichloropropane	23	U	23	23
Bromodichloromethane	17	U	17	17
cis-1,3-Dichloropropene	11	U	11	11
Toluene	21	D	9.4	9.4
trans-1,3-Dichloropropene	11	U	11	11
1,1,2-Trichloroethane	14	U	14	14
Tetrachloroethene	17	U	17	17
Dibromochloromethane	21	U	21	21
1,2-Dibromoethane	19	U	19	19
Ethylbenzene	11	U	11	11
o-Xylene	11	U*	11	11
Bromoform	26	U	26	26
1,1,2,2-Tetrachloroethane	17	U	17	17
4-Ethyltoluene	12	U*	12	12
1,3,5-Trimethylbenzene	24	U*	24	24
m-Xylene & p-Xylene	22	U*	22	22

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F8

Lab Sample ID: 200-15277-7

Date Sampled: 02/27/2013 1426

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg13.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0054			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0054			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.66		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.29		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.40		0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	<del>9.1</del> 8.6	<del>E</del>	0.020	0.020
1,1,1-Trichloroethane	0.34		0.020	0.020
Carbon tetrachloride	0.038		0.020	0.020
Benzene	0.23		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.040		0.020	0.020
Trichloroethene	<del>4.3</del> 3.9	<del>E</del>	0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.39		0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.14		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.65		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.020	U	0.020	0.020
o-Xylene	0.020	U	0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,1,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.055		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.3		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.6		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	1.4		0.072	0.072

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F8

Lab Sample ID: 200-15277-7

Date Sampled: 02/27/2013 1426

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg13.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0054			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0054			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	<del>44</del> 42	<del>E</del>	0.098	0.098
1,1,1-Trichloroethane	1.8		0.11	0.11
Carbon tetrachloride	0.24		0.13	0.13
Benzene	0.72		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.17		0.082	0.082
Trichloroethene	<del>23</del> 21	<del>E</del>	0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	2.6		0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	0.53		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	4.4		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.087	U	0.087	0.087
o-Xylene	0.087	U	0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,2,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.24		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F8

Lab Sample ID: 200-15277-7

Date Sampled: 02/27/2013 1426

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh08.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2013 2107	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2107			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.75	D*	0.10	0.10
1,2-Dichlorotetrafluoroethane	0.10	U*	0.10	0.10
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.20	U	0.20	0.20
Trichlorofluoromethane	0.31	D	0.10	0.10
1,1-Dichloroethene	0.10	U	0.10	0.10
3-Chloropropene	0.20	U	0.20	0.20
Methyl tert-butyl ether	0.38	D*	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
1,1-Dichloroethane	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.10	U	0.10	0.10
Chloroform	8.6	D	0.10	0.10
1,1,1-Trichloroethane	0.37	D	0.10	0.10
Carbon tetrachloride	0.10	U	0.10	0.10
Benzene	0.27	D	0.10	0.10
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.10	U	0.10	0.10
Trichloroethene	3.9	D	0.10	0.10
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.41	D	0.10	0.10
cis-1,3-Dichloropropene	0.10	U	0.10	0.10
Toluene	0.14	D	0.10	0.10
trans-1,3-Dichloropropene	0.10	U	0.10	0.10
1,1,2-Trichloroethane	0.10	U	0.10	0.10
Tetrachloroethene	0.66	D	0.10	0.10
Dibromochloromethane	0.10	U	0.10	0.10
1,2-Dibromoethane	0.10	U	0.10	0.10
Ethylbenzene	0.10	U	0.10	0.10
o-Xylene	0.10	U*	0.10	0.10
Bromoform	0.10	U	0.10	0.10
1,1,2,2-Tetrachloroethane	0.10	U	0.10	0.10
4-Ethyltoluene	0.10	U*	0.10	0.10
1,3,5-Trimethylbenzene	0.20	U*	0.20	0.20
m-Xylene & p-Xylene	0.20	U*	0.20	0.20

Do Not Use

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.7	D*	0.49	0.49
1,2-Dichlorotetrafluoroethane	0.70	U*	0.70	0.70
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	0.53	U	0.53	0.53
Trichlorofluoromethane	1.7	D	0.56	0.56
1,1-Dichloroethene	0.40	U	0.40	0.40
3-Chloropropene	0.63	U	0.63	0.63
Methyl tert-butyl ether	1.4	D*	0.36	0.36

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F8

Lab Sample ID: 200-15277-7

Client Matrix: Air

Date Sampled: 02/27/2013 1426

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh08.d
Dilution:	10	Run Type:	DL	Initial Weight/Volume:	50 mL
Analysis Date:	03/19/2013 2107			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2107			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
1,1-Dichloroethane	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
Chloroform	42	D	0.49	0.49
1,1,1-Trichloroethane	2.0	D	0.55	0.55
Carbon tetrachloride	0.63	U	0.63	0.63
Benzene	0.85	D	0.32	0.32
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.41	U	0.41	0.41
Trichloroethene	21	D	0.54	0.54
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	2.8	D	0.67	0.67
cis-1,3-Dichloropropene	0.45	U	0.45	0.45
Toluene	0.54	D	0.38	0.38
trans-1,3-Dichloropropene	0.45	U	0.45	0.45
1,1,2-Trichloroethane	0.55	U	0.55	0.55
Tetrachloroethene	4.5	D	0.68	0.68
Dibromochloromethane	0.85	U	0.85	0.85
1,2-Dibromoethane	0.77	U	0.77	0.77
Ethylbenzene	0.43	U	0.43	0.43
o-Xylene	0.43	U*	0.43	0.43
Bromoform	1.0	U	1.0	1.0
1,1,1,2-Tetrachloroethane	0.69	U	0.69	0.69
4-Ethyltoluene	0.49	U*	0.49	0.49
1,3,5-Trimethylbenzene	0.98	U*	0.98	0.98
m-Xylene & p-Xylene	0.87	U*	0.87	0.87

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73F9

Lab Sample ID: 200-15277-8

Date Sampled: 02/27/2013 1427

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh15.d
Dilution:	5.0			Initial Weight/Volume:	464 mL
Analysis Date:	03/20/2013 0325			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0325			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.65	U	0.050	0.050
1,2-Dichlorotetrafluoroethane	0.050	U	0.050	0.050
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.10	U	0.10	0.10
Chloroethane	0.10	U	0.10	0.10
Trichlorofluoromethane	0.34		0.050	0.050
1,1-Dichloroethene	0.050	U	0.050	0.050
3-Chloropropene	0.10	U	0.10	0.10
Methyl tert-butyl ether	0.050	U	0.050	0.050
trans-1,2-Dichloroethene	0.15		0.050	0.050
1,1-Dichloroethane	0.050	U	0.050	0.050
cis-1,2-Dichloroethene	0.79		0.050	0.050
Chloroform	0.080		0.050	0.050
1,1,1-Trichloroethane	0.10		0.050	0.050
Carbon tetrachloride	0.071		0.050	0.050
Benzene	0.069		0.050	0.050
1,2-Dichloroethane	0.10	U	0.10	0.10
n-Heptane	0.062		0.050	0.050
Trichloroethene	20	E	0.050	0.050
1,2-Dichloropropane	0.10	U	0.10	0.10
Bromodichloromethane	0.050	U	0.050	0.050
cis-1,3-Dichloropropene	0.050	U	0.050	0.050
Toluene	0.29		0.050	0.050
trans-1,3-Dichloropropene	0.050	U	0.050	0.050
1,1,2-Trichloroethane	0.050	U	0.050	0.050
Tetrachloroethene	1.0		0.050	0.050
Dibromochloromethane	0.050	U	0.050	0.050
1,2-Dibromoethane	0.050	U	0.050	0.050
Ethylbenzene	0.050	U	0.050	0.050
o-Xylene	0.050	U	0.050	0.050
Bromoform	0.050	U	0.050	0.050
1,1,2,2-Tetrachloroethane	0.050	U	0.050	0.050
4-Ethyltoluene	0.050	U	0.050	0.050
1,3,5-Trimethylbenzene	0.10	U	0.10	0.10
m-Xylene & p-Xylene	0.10	U	0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.2	U	0.25	0.25
1,2-Dichlorotetrafluoroethane	0.35	U	0.35	0.35
Vinyl chloride	0.26	U	0.26	0.26
Bromomethane	0.39	U	0.39	0.39
Chloroethane	0.26	U	0.26	0.26
Trichlorofluoromethane	1.9		0.28	0.28
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.31	U	0.31	0.31
Methyl tert-butyl ether	0.18	U	0.18	0.18

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73F9  
Lab Sample ID: 200-15277-8  
Client Matrix: Air

Date Sampled: 02/27/2013 1427  
Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh15.d
Dilution:	5.0			Initial Weight/Volume:	464 mL
Analysis Date:	03/20/2013 0325			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0325			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.59		0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	3.1		0.20	0.20
Chloroform	0.39		0.24	0.24
1,1,1-Trichloroethane	0.56		0.27	0.27
Carbon tetrachloride	0.44		0.31	0.31
Benzene	0.22		0.16	0.16
1,2-Dichloroethane	0.40	U	0.40	0.40
n-Heptane	0.26		0.20	0.20
Trichloroethene	<del>0.26</del> 95	<del>U</del>	0.27	0.27
1,2-Dichloropropane	0.46	U	0.46	0.46
Bromodichloromethane	0.34	U	0.34	0.34
cis-1,3-Dichloropropene	0.23	U	0.23	0.23
Toluene	1.1		0.19	0.19
trans-1,3-Dichloropropene	0.23	U	0.23	0.23
1,1,2-Trichloroethane	0.27	U	0.27	0.27
Tetrachloroethene	7.0		0.34	0.34
Dibromochloromethane	0.43	U	0.43	0.43
1,2-Dibromoethane	0.38	U	0.38	0.38
Ethylbenzene	0.22	U	0.22	0.22
o-Xylene	0.22	U	0.22	0.22
Bromoform	0.52	U	0.52	0.52
1,1,2,2-Tetrachloroethane	0.34	U	0.34	0.34
4-Ethyltoluene	0.25	U	0.25	0.25
1,3,5-Trimethylbenzene	0.49	U	0.49	0.49
m-Xylene & p-Xylene	0.43	U	0.43	0.43

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73F9  
Lab Sample ID: 200-15277-8  
Client Matrix: Air

Date Sampled: 02/27/2013 1427  
Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method: TO15 LL      Analysis Batch: 200-53205      Instrument ID: E.i  
Prep Method: Summa Canister      Prep Batch: N/A      Lab File ID: efkh16.d  
Dilution: 24.9      Initial Weight/Volume: 93 mL  
Analysis Date: 03/20/2013 0419      Run Type: DL      Final Weight/Volume: 500 mL  
Prep Date: 03/20/2013 0419      Injection Volume: 500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.84	D*	0.25	0.25
1,2-Dichlorotetrafluoroethane	0.25	U*	0.25	0.25
Vinyl chloride	0.50	U	0.50	0.50
Bromomethane	0.50	U	0.50	0.50
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.33	D	0.25	0.25
1,1-Dichloroethene	0.25	U	0.25	0.25
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.25	U*	0.25	0.25
trans-1,2-Dichloroethene	0.25	U	0.25	0.25
1,1-Dichloroethane	0.25	U	0.25	0.25
cis-1,2-Dichloroethene	0.69	D	0.25	0.25
Chloroform	0.25	U	0.25	0.25
1,1,1-Trichloroethane	0.25	U	0.25	0.25
Carbon tetrachloride	0.25	U	0.25	0.25
Benzene	0.25	U	0.25	0.25
1,2-Dichloroethane	0.50	U	0.50	0.50
n-Heptane	0.25	U	0.25	0.25
Trichloroethene	18	D	0.25	0.25
1,2-Dichloropropane	0.50	U	0.50	0.50
Bromodichloromethane	0.25	U	0.25	0.25
cis-1,3-Dichloropropene	0.25	U	0.25	0.25
Toluene	0.25	U	0.25	0.25
trans-1,3-Dichloropropene	0.25	U	0.25	0.25
1,1,2-Trichloroethane	0.25	U	0.25	0.25
Tetrachloroethene	0.98	D	0.25	0.25
Dibromochloromethane	0.25	U	0.25	0.25
1,2-Dibromoethane	0.25	U	0.25	0.25
Ethylbenzene	0.25	U	0.25	0.25
o-Xylene	0.25	U*	0.25	0.25
Bromoform	0.25	U	0.25	0.25
1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25
4-Ethyltoluene	0.25	U*	0.25	0.25
1,3,5-Trimethylbenzene	0.50	U*	0.50	0.50
m-Xylene & p-Xylene	0.50	U*	0.50	0.50

Do Not Use

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	4.2	D*	1.2	1.2
1,2-Dichlorotetrafluoroethane	1.7	U*	1.7	1.7
Vinyl chloride	1.3	U	1.3	1.3
Bromomethane	1.9	U	1.9	1.9
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.8	D	1.4	1.4
1,1-Dichloroethene	0.99	U	0.99	0.99
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.90	U*	0.90	0.90

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

**Client Sample ID:** B73F9

Lab Sample ID: 200-15277-8

Date Sampled: 02/27/2013 1427

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh16.d
Dilution:	24.9			Initial Weight/Volume:	93 mL
Analysis Date:	03/20/2013 0419	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0419			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.99	U	0.99	0.99
1,1-Dichloroethane	1.0	U	1.0	1.0
cis-1,2-Dichloroethene	2.7	D	0.99	0.99
Chloroform	1.2	U	1.2	1.2
1,1,1-Trichloroethane	1.4	U	1.4	1.4
Carbon tetrachloride	1.6	U	1.6	1.6
Benzene	0.80	U	0.80	0.80
1,2-Dichloroethane	2.0	U	2.0	2.0
n-Heptane	1.0	U	1.0	1.0
Trichloroethene	95	D	1.3	1.3
1,2-Dichloropropane	2.3	U	2.3	2.3
Bromodichloromethane	1.7	U	1.7	1.7
cis-1,3-Dichloropropene	1.1	U	1.1	1.1
Toluene	0.94	U	0.94	0.94
trans-1,3-Dichloropropene	1.1	U	1.1	1.1
1,1,2-Trichloroethane	1.4	U	1.4	1.4
Tetrachloroethene	6.7	D	1.7	1.7
Dibromochloromethane	2.1	U	2.1	2.1
1,2-Dibromoethane	1.9	U	1.9	1.9
Ethylbenzene	1.1	U	1.1	1.1
o-Xylene	1.1	U*	1.1	1.1
Bromoform	2.6	U	2.6	2.6
1,1,2,2-Tetrachloroethane	1.7	U	1.7	1.7
4-Ethyltoluene	1.2	U*	1.2	1.2
1,3,5-Trimethylbenzene	2.4	U*	2.4	2.4
m-Xylene & p-Xylene	2.2	U*	2.2	2.2

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G0

Lab Sample ID: 200-15277-9

Date Sampled: 02/27/2013 1549

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh17.d
Dilution:	5.25			Initial Weight/Volume:	500 mL
Analysis Date:	03/20/2013 0513			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0513			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.75	U	0.053	0.053
1,2-Dichlorotetrafluoroethane	0.053	U	0.053	0.053
Vinyl chloride	0.11	U	0.11	0.11
Bromomethane	0.11	U	0.11	0.11
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	0.78		0.053	0.053
1,1-Dichloroethene	0.053	U	0.053	0.053
3-Chloropropene	0.11	U	0.11	0.11
Methyl tert-butyl ether	0.053	U	0.053	0.053
trans-1,2-Dichloroethene	0.053	U	0.053	0.053
1,1-Dichloroethane	0.053	U	0.053	0.053
cis-1,2-Dichloroethene	0.053	U	0.053	0.053
Chloroform	0.33		0.053	0.053
1,1,1-Trichloroethane	0.71		0.053	0.053
Carbon tetrachloride	17	E	0.053	0.053
Benzene	0.060		0.053	0.053
1,2-Dichloroethane	0.11	U	0.11	0.11
n-Heptane	0.053	U	0.053	0.053
Trichloroethene	0.27		0.053	0.053
1,2-Dichloropropane	0.11	U	0.11	0.11
Bromodichloromethane	0.053	U	0.053	0.053
cis-1,3-Dichloropropene	0.053	U	0.053	0.053
Toluene	0.50		0.053	0.053
trans-1,3-Dichloropropene	0.053	U	0.053	0.053
1,1,2-Trichloroethane	0.053	U	0.053	0.053
Tetrachloroethene	0.56		0.053	0.053
Dibromochloromethane	0.053	U	0.053	0.053
1,2-Dibromoethane	0.053	U	0.053	0.053
Ethylbenzene	0.053	U	0.053	0.053
o-Xylene	0.053	U	0.053	0.053
Bromoform	0.053	U	0.053	0.053
1,1,2,2-Tetrachloroethane	0.053	U	0.053	0.053
4-Ethyltoluene	0.053	U	0.053	0.053
1,3,5-Trimethylbenzene	0.11	U	0.11	0.11
m-Xylene & p-Xylene	0.15	U	0.11	0.11

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.7	U	0.26	0.26
1,2-Dichlorotetrafluoroethane	0.37	U	0.37	0.37
Vinyl chloride	0.27	U	0.27	0.27
Bromomethane	0.41	U	0.41	0.41
Chloroethane	0.28	U	0.28	0.28
Trichlorofluoromethane	4.4		0.29	0.29
1,1-Dichloroethene	0.21	U	0.21	0.21
3-Chloropropene	0.33	U	0.33	0.33
Methyl tert-butyl ether	0.19	U	0.19	0.19

### Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G0

Lab Sample ID: 200-15277-9

Date Sampled: 02/27/2013 1549

Client Matrix: Air

Date Received: 03/01/2013 0755

#### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh17.d
Dilution:	5.25			Initial Weight/Volume:	500 mL
Analysis Date:	03/20/2013 0513			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0513			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.21	U	0.21	0.21
1,1-Dichloroethane	0.21	U	0.21	0.21
cis-1,2-Dichloroethene	0.21	U	0.21	0.21
Chloroform	1.6		0.26	0.26
1,1,1-Trichloroethane	3.9		0.29	0.29
Carbon tetrachloride	<del>110</del> 100	<del>E</del>	0.33	0.33
Benzene	0.19		0.17	0.17
1,2-Dichloroethane	0.42	U	0.42	0.42
n-Heptane	0.22	U	0.22	0.22
Trichloroethene	1.5		0.28	0.28
1,2-Dichloropropane	0.49	U	0.49	0.49
Bromodichloromethane	0.35	U	0.35	0.35
cis-1,3-Dichloropropene	0.24	U	0.24	0.24
Toluene	1.9		0.20	0.20
trans-1,3-Dichloropropene	0.24	U	0.24	0.24
1,1,2-Trichloroethane	0.29	U	0.29	0.29
Tetrachloroethene	3.8		0.36	0.36
Dibromochloromethane	0.45	U	0.45	0.45
1,2-Dibromoethane	0.40	U	0.40	0.40
Ethylbenzene	0.23	U	0.23	0.23
o-Xylene	0.23	U	0.23	0.23
Bromoform	0.54	U	0.54	0.54
1,1,1,2-Tetrachloroethane	0.36	U	0.36	0.36
4-Ethyltoluene	0.26	U	0.26	0.26
1,3,5-Trimethylbenzene	0.52	U	0.52	0.52
m-Xylene & p-Xylene	0.65	U	0.46	0.46

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73G0

Lab Sample ID: 200-15277-9  
Client Matrix: Air

Date Sampled: 02/27/2013 1549  
Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh25.d
Dilution:	25			Initial Weight/Volume:	105 mL
Analysis Date:	03/20/2013 1245	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 1245			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.79	D*	0.25	0.25
1,2-Dichlorotetrafluoroethane	0.25	U*	0.25	0.25
Vinyl chloride	0.50	U	0.50	0.50
Bromomethane	0.50	U	0.50	0.50
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.85	D	0.25	0.25
1,1-Dichloroethene	0.25	U	0.25	0.25
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.25	U*	0.25	0.25
trans-1,2-Dichloroethene	0.25	U	0.25	0.25
1,1-Dichloroethane	0.25	U	0.25	0.25
cis-1,2-Dichloroethene	0.25	U	0.25	0.25
Chloroform	0.34	D	0.25	0.25
1,1,1-Trichloroethane	0.74	D	0.25	0.25
Carbon tetrachloride	17	D	0.25	0.25
Benzene	0.25	U	0.25	0.25
1,2-Dichloroethane	0.50	U	0.50	0.50
n-Heptane	0.25	U	0.25	0.25
Trichloroethene	0.30	D	0.25	0.25
1,2-Dichloropropane	0.50	U	0.50	0.50
Bromodichloromethane	0.25	U	0.25	0.25
cis-1,3-Dichloropropene	0.25	U	0.25	0.25
Toluene	0.77	D	0.25	0.25
trans-1,3-Dichloropropene	0.25	U	0.25	0.25
1,1,2-Trichloroethane	0.25	U	0.25	0.25
Tetrachloroethene	0.62	D	0.25	0.25
Dibromochloromethane	0.25	U	0.25	0.25
1,2-Dibromoethane	0.25	U	0.25	0.25
Ethylbenzene	0.25	U	0.25	0.25
o-Xylene	0.25	U*	0.25	0.25
Bromoform	0.25	U	0.25	0.25
1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25
4-Ethyltoluene	0.25	U*	0.25	0.25
1,3,5-Trimethylbenzene	0.50	U*	0.50	0.50
m-Xylene & p-Xylene	0.50	U*	0.50	0.50

*Do Not Use*

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.9	D*	1.2	1.2
1,2-Dichlorotetrafluoroethane	1.7	U*	1.7	1.7
Vinyl chloride	1.3	U	1.3	1.3
Bromomethane	1.9	U	1.9	1.9
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	4.8	D	1.4	1.4
1,1-Dichloroethene	0.99	U	0.99	0.99
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.90	U*	0.90	0.90

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73G0**

Lab Sample ID: 200-15277-9

Date Sampled: 02/27/2013 1549

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh25.d
Dilution:	25	Run Type:	DL	Initial Weight/Volume:	105 mL
Analysis Date:	03/20/2013 1245			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 1245			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.99	U	0.99	0.99
1,1-Dichloroethane	1.0	U	1.0	1.0
cis-1,2-Dichloroethene	0.99	U	0.99	0.99
Chloroform	1.6	D	1.2	1.2
1,1,1-Trichloroethane	4.1	D	1.4	1.4
Carbon tetrachloride	100	D	1.6	1.6
Benzene	0.80	U	0.80	0.80
1,2-Dichloroethane	2.0	U	2.0	2.0
n-Heptane	1.0	U	1.0	1.0
Trichloroethene	1.6	D	1.3	1.3
1,2-Dichloropropane	2.3	U	2.3	2.3
Bromodichloromethane	1.7	U	1.7	1.7
cis-1,3-Dichloropropene	1.1	U	1.1	1.1
Toluene	2.9	D	0.94	0.94
trans-1,3-Dichloropropene	1.1	U	1.1	1.1
1,1,2-Trichloroethane	1.4	U	1.4	1.4
Tetrachloroethene	4.2	D	1.7	1.7
Dibromochloromethane	2.1	U	2.1	2.1
1,2-Dibromoethane	1.9	U	1.9	1.9
Ethylbenzene	1.1	U	1.1	1.1
o-Xylene	1.1	U*	1.1	1.1
Bromoform	2.6	U	2.6	2.6
1,1,2,2-Tetrachloroethane	1.7	U	1.7	1.7
4-Ethyltoluene	1.2	U*	1.2	1.2
1,3,5-Trimethylbenzene	2.5	U*	2.5	2.5
m-Xylene & p-Xylene	2.2	U*	2.2	2.2

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G1

Lab Sample ID: 200-15277-10

Date Sampled: 02/28/2013 0929

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh09.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 2201			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2201			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.70	U	0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.23		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.30		0.020	0.020
1,1,1-Trichloroethane	0.099		0.020	0.020
Carbon tetrachloride	1.0		0.020	0.020
Benzene	0.031		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.020	U	0.020	0.020
Trichloroethene	1.7		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.15		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.31		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.030		0.020	0.020
o-Xylene	0.021		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.065		0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.10		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.4	U	0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.3		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73G1**

Lab Sample ID: 200-15277-10

Date Sampled: 02/28/2013 0929

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh09.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 2201			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2201			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	1.5		0.098	0.098
1,1,1-Trichloroethane	0.54		0.11	0.11
Carbon tetrachloride	6.6		0.13	0.13
Benzene	0.099		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.082	U	0.082	0.082
Trichloroethene	9.0		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	0.58		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	2.1		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.13		0.087	0.087
o-Xylene	0.090		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,2,2-Tetrachloroethane	0.45		0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.45		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G2

Lab Sample ID: 200-15277-11

Client Matrix: Air

Date Sampled: 02/28/2013 0930

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh20.d
Dilution:	40			Initial Weight/Volume:	481 mL
Analysis Date:	03/20/2013 0755			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0755			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	1.0	U	0.40	0.40
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.40
Vinyl chloride	0.80	U	0.80	0.80
Bromomethane	0.80	U	0.80	0.80
Chloroethane	0.80	U	0.80	0.80
Trichlorofluoromethane	0.69		0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
3-Chloropropene	0.80	U	0.80	0.80
Methyl tert-butyl ether	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
1,1-Dichloroethane	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.83		0.40	0.40
Chloroform	13		0.40	0.40
1,1,1-Trichloroethane	2.7		0.40	0.40
Carbon tetrachloride	18		0.40	0.40
Benzene	0.40	U	0.40	0.40
1,2-Dichloroethane	0.80	U	0.80	0.80
n-Heptane	0.40	U	0.40	0.40
Trichloroethene	140	E	0.40	0.40
1,2-Dichloropropane	0.80	U	0.80	0.80
Bromodichloromethane	0.40	U	0.40	0.40
cis-1,3-Dichloropropene	0.40	U	0.40	0.40
Toluene	2.9		0.40	0.40
trans-1,3-Dichloropropene	0.40	U	0.40	0.40
1,1,2-Trichloroethane	0.40	U	0.40	0.40
Tetrachloroethene	12		0.40	0.40
Dibromochloromethane	0.40	U	0.40	0.40
1,2-Dibromoethane	0.40	U	0.40	0.40
Ethylbenzene	0.40	U	0.40	0.40
o-Xylene	0.40	U	0.40	0.40
Bromoform	0.40	U	0.40	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.40
4-Ethyltoluene	0.40	U	0.40	0.40
1,3,5-Trimethylbenzene	0.80	U	0.80	0.80
m-Xylene & p-Xylene	0.80	U	0.80	0.80

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	5.1	U	2.0	2.0
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	2.8
Vinyl chloride	2.0	U	2.0	2.0
Bromomethane	3.1	U	3.1	3.1
Chloroethane	2.1	U	2.1	2.1
Trichlorofluoromethane	3.9		2.2	2.2
1,1-Dichloroethene	1.6	U	1.6	1.6
3-Chloropropene	2.5	U	2.5	2.5
Methyl tert-butyl ether	1.4	U	1.4	1.4

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G2

Lab Sample ID: 200-15277-11

Date Sampled: 02/28/2013 0930

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh20.d
Dilution:	40			Initial Weight/Volume:	481 mL
Analysis Date:	03/20/2013 0755			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0755			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
1,1-Dichloroethane	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	3.3		1.6	1.6
Chloroform	62		2.0	2.0
1,1,1-Trichloroethane	14		2.2	2.2
Carbon tetrachloride	120		2.5	2.5
Benzene	1.3	U	1.3	1.3
1,2-Dichloroethane	3.2	U	3.2	3.2
n-Heptane	1.6	U	1.6	1.6
Trichloroethene	610	<del>E</del>	2.1	2.1
1,2-Dichloropropane	3.7	U	3.7	3.7
Bromodichloromethane	2.7	U	2.7	2.7
cis-1,3-Dichloropropene	1.8	U	1.8	1.8
Toluene	11		1.5	1.5
trans-1,3-Dichloropropene	1.8	U	1.8	1.8
1,1,2-Trichloroethane	2.2	U	2.2	2.2
Tetrachloroethene	79		2.7	2.7
Dibromochloromethane	3.4	U	3.4	3.4
1,2-Dibromoethane	3.1	U	3.1	3.1
Ethylbenzene	1.7	U	1.7	1.7
o-Xylene	1.7	U	1.7	1.7
Bromoform	4.1	U	4.1	4.1
1,1,2,2-Tetrachloroethane	2.7	U	2.7	2.7
4-Ethyltoluene	2.0	U	2.0	2.0
1,3,5-Trimethylbenzene	3.9	U	3.9	3.9
m-Xylene & p-Xylene	3.5	U	3.5	3.5

540

J

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G2

Lab Sample ID: 200-15277-11

Date Sampled: 02/28/2013 0930

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh21.d
Dilution:	200			Initial Weight/Volume:	96 mL
Analysis Date:	03/20/2013 0849	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0849			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	2.0	U*	2.0	2.0
1,2-Dichlorotetrafluoroethane	2.0	U*	2.0	2.0
Vinyl chloride	4.0	U	4.0	4.0
Bromomethane	4.0	U	4.0	4.0
Chloroethane	4.0	U	4.0	4.0
Trichlorofluoromethane	2.0	U	2.0	2.0
1,1-Dichloroethene	2.0	U	2.0	2.0
3-Chloropropene	4.0	U	4.0	4.0
Methyl tert-butyl ether	2.0	U*	2.0	2.0
trans-1,2-Dichloroethene	2.0	U	2.0	2.0
1,1-Dichloroethane	2.0	U	2.0	2.0
cis-1,2-Dichloroethene	2.0	U	2.0	2.0
Chloroform	13	D	2.0	2.0
1,1,1-Trichloroethane	2.0	U	2.0	2.0
Carbon tetrachloride	19	D	2.0	2.0
Benzene	2.0	U	2.0	2.0
1,2-Dichloroethane	4.0	U	4.0	4.0
n-Heptane	2.0	U	2.0	2.0
Trichloroethene	100	D	2.0	2.0
1,2-Dichloropropane	4.0	U	4.0	4.0
Bromodichloromethane	2.0	U	2.0	2.0
cis-1,3-Dichloropropene	2.0	U	2.0	2.0
Toluene	2.5	D	2.0	2.0
trans-1,3-Dichloropropene	2.0	U	2.0	2.0
1,1,2-Trichloroethane	2.0	U	2.0	2.0
Tetrachloroethene	10	D	2.0	2.0
Dibromochloromethane	2.0	U	2.0	2.0
1,2-Dibromoethane	2.0	U	2.0	2.0
Ethylbenzene	2.0	U	2.0	2.0
o-Xylene	2.0	U*	2.0	2.0
Bromoform	2.0	U	2.0	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0	2.0
4-Ethyltoluene	2.0	U*	2.0	2.0
1,3,5-Trimethylbenzene	4.0	U*	4.0	4.0
m-Xylene & p-Xylene	4.0	U*	4.0	4.0

*Do Not Use*

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	9.9	U*	9.9	9.9
1,2-Dichlorotetrafluoroethane	14	U*	14	14
Vinyl chloride	10	U	10	10
Bromomethane	16	U	16	16
Chloroethane	11	U	11	11
Trichlorofluoromethane	11	U	11	11
1,1-Dichloroethene	7.9	U	7.9	7.9
3-Chloropropene	13	U	13	13
Methyl tert-butyl ether	7.2	U*	7.2	7.2

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73G2**

Lab Sample ID: 200-15277-11

Date Sampled: 02/28/2013 0930

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh21.d
Dilution:	200			Initial Weight/Volume:	96 mL
Analysis Date:	03/20/2013 0849	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0849			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	7.9	U	7.9	7.9
1,1-Dichloroethane	8.1	U	8.1	8.1
cis-1,2-Dichloroethene	7.9	U	7.9	7.9
Chloroform	65	D	9.8	9.8
1,1,1-Trichloroethane	11	U	11	11
Carbon tetrachloride	120	D	13	13
Benzene	6.4	U	6.4	6.4
1,2-Dichloroethane	16	U	16	16
n-Heptane	8.2	U	8.2	8.2
Trichloroethene	540	D	11	11
1,2-Dichloropropane	18	U	18	18
Bromodichloromethane	13	U	13	13
cis-1,3-Dichloropropene	9.1	U	9.1	9.1
Toluene	9.3	D	7.5	7.5
trans-1,3-Dichloropropene	9.1	U	9.1	9.1
1,1,2-Trichloroethane	11	U	11	11
Tetrachloroethene	68	D	14	14
Dibromochloromethane	17	U	17	17
1,2-Dibromoethane	15	U	15	15
Ethylbenzene	8.7	U	8.7	8.7
o-Xylene	8.7	U*	8.7	8.7
Bromoform	21	U	21	21
1,1,2,2-Tetrachloroethane	14	U	14	14
4-Ethyltoluene	9.8	U*	9.8	9.8
1,3,5-Trimethylbenzene	20	U*	20	20
m-Xylene & p-Xylene	17	U*	17	17

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G3

Lab Sample ID: 200-15277-12

Date Sampled: 02/28/2013 0943

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg19.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0614			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0614			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.62		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.22		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.067		0.020	0.020
Chloroform	0.16		0.020	0.020
1,1,1-Trichloroethane	0.038		0.020	0.020
Carbon tetrachloride	0.16		0.020	0.020
Benzene	0.65		0.020	0.020
1,2-Dichloroethane	0.12		0.040	0.040
n-Heptane	0.48		0.020	0.020
Trichloroethene	0.16		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.037		0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	<del>2.1</del> 2.1	<del>E</del>	0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.069		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.20		0.020	0.020
o-Xylene	0.27		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.052		0.020	0.020
1,3,5-Trimethylbenzene	0.088		0.040	0.040
m-Xylene & p-Xylene	0.85		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.1		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.2		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G3

Lab Sample ID: 200-15277-12

Date Sampled: 02/28/2013 0943

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg19.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0614			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0614			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.26		0.079	0.079
Chloroform	0.77		0.098	0.098
1,1,1-Trichloroethane	0.21		0.11	0.11
Carbon tetrachloride	0.99		0.13	0.13
Benzene	2.1		0.064	0.064
1,2-Dichloroethane	0.48		0.16	0.16
n-Heptane	2.0		0.082	0.082
Trichloroethene	0.87		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.25		0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	<del>8.1</del> 8.1	<del>E</del>	0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.47		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.88		0.087	0.087
o-Xylene	1.2		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.25		0.098	0.098
1,3,5-Trimethylbenzene	0.43		0.20	0.20
m-Xylene & p-Xylene	3.7		0.17	0.17

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G3

Lab Sample ID: 200-15277-12

Date Sampled: 02/28/2013 0943

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh11.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	03/19/2013 2349	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 2349			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.61	D*	0.040	0.040
1,2-Dichlorotetrafluoroethane	0.040	U*	0.040	0.040
Vinyl chloride	0.080	U	0.080	0.080
Bromomethane	0.080	U	0.080	0.080
Chloroethane	0.080	U	0.080	0.080
Trichlorofluoromethane	0.26	D	0.040	0.040
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.080	U	0.080	0.080
Methyl tert-butyl ether	0.040	U*	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.067	D	0.040	0.040
Chloroform	0.17	D	0.040	0.040
1,1,1-Trichloroethane	0.050	D	0.040	0.040
Carbon tetrachloride	0.18	D	0.040	0.040
Benzene	0.67	D	0.040	0.040
1,2-Dichloroethane	0.14	D	0.080	0.080
n-Heptane	0.53	D	0.040	0.040
Trichloroethene	0.15	D	0.040	0.040
1,2-Dichloropropane	0.080	U	0.080	0.080
Bromodichloromethane	0.040	U	0.040	0.040
cis-1,3-Dichloropropene	0.040	U	0.040	0.040
Toluene	2.1	D	0.040	0.040
trans-1,3-Dichloropropene	0.040	U	0.040	0.040
1,1,2-Trichloroethane	0.040	U	0.040	0.040
Tetrachloroethene	0.073	D	0.040	0.040
Dibromochloromethane	0.040	U	0.040	0.040
1,2-Dibromoethane	0.040	U	0.040	0.040
Ethylbenzene	0.21	D	0.040	0.040
o-Xylene	0.27	D*	0.040	0.040
Bromoform	0.040	U	0.040	0.040
1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
4-Ethyltoluene	0.058	D*	0.040	0.040
1,3,5-Trimethylbenzene	0.080	U*	0.080	0.080
m-Xylene & p-Xylene	0.80	D*	0.080	0.080

Do Not Use

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.0	D*	0.20	0.20
1,2-Dichlorotetrafluoroethane	0.28	U*	0.28	0.28
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.31	U	0.31	0.31
Chloroethane	0.21	U	0.21	0.21
Trichlorofluoromethane	1.5	D	0.22	0.22
1,1-Dichloroethene	0.16	U	0.16	0.16
3-Chloropropene	0.25	U	0.25	0.25
Methyl tert-butyl ether	0.14	U*	0.14	0.14

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

Client Sample ID: B73G3

Lab Sample ID: 200-15277-12

Client Matrix: Air

Date Sampled: 02/28/2013 0943

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method: TO15 LL	Analysis Batch: 200-53205	Instrument ID: E.i
Prep Method: Summa Canister	Prep Batch: N/A	Lab File ID: efkh11.d
Dilution: 4.0		Initial Weight/Volume: 125 mL
Analysis Date: 03/19/2013 2349	Run Type: DL	Final Weight/Volume: 500 mL
Prep Date: 03/19/2013 2349		Injection Volume: 500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
1,1-Dichloroethane	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.26	D	0.16	0.16
Chloroform	0.85	D	0.20	0.20
1,1,1-Trichloroethane	0.27	D	0.22	0.22
Carbon tetrachloride	1.2	D	0.25	0.25
Benzene	2.1	D	0.13	0.13
1,2-Dichloroethane	0.58	D	0.32	0.32
n-Heptane	2.2	D	0.16	0.16
Trichloroethene	0.79	D	0.21	0.21
1,2-Dichloropropane	0.37	U	0.37	0.37
Bromodichloromethane	0.27	U	0.27	0.27
cis-1,3-Dichloropropene	0.18	U	0.18	0.18
Toluene	8.1	D	0.15	0.15
trans-1,3-Dichloropropene	0.18	U	0.18	0.18
1,1,2-Trichloroethane	0.22	U	0.22	0.22
Tetrachloroethene	0.49	D	0.27	0.27
Dibromochloromethane	0.34	U	0.34	0.34
1,2-Dibromoethane	0.31	U	0.31	0.31
Ethylbenzene	0.92	D	0.17	0.17
o-Xylene	1.2	D*	0.17	0.17
Bromoform	0.41	U	0.41	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27	0.27
4-Ethyltoluene	0.29	D*	0.20	0.20
1,3,5-Trimethylbenzene	0.39	U*	0.39	0.39
m-Xylene & p-Xylene	3.5	D*	0.35	0.35

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G4

Lab Sample ID: 200-15277-13

Client Matrix: Air

Date Sampled: 02/28/2013 0944

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh22.d
Dilution:	5.0			Initial Weight/Volume:	484 mL
Analysis Date:	03/20/2013 0943			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0943			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.74	U	0.050	0.050
1,2-Dichlorotetrafluoroethane	0.050	U	0.050	0.050
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.10	U	0.10	0.10
Chloroethane	0.10	U	0.10	0.10
Trichlorofluoromethane	0.32		0.050	0.050
1,1-Dichloroethene	0.050	U	0.050	0.050
3-Chloropropene	0.10	U	0.10	0.10
Methyl tert-butyl ether	0.050	U	0.050	0.050
trans-1,2-Dichloroethene	0.050	U	0.050	0.050
1,1-Dichloroethane	0.050	U	0.050	0.050
cis-1,2-Dichloroethene	1.4		0.050	0.050
Chloroform	1.1		0.050	0.050
1,1,1-Trichloroethane	0.92		0.050	0.050
Carbon tetrachloride	1.7		0.050	0.050
Benzene	0.050	U	0.050	0.050
1,2-Dichloroethane	0.10	U	0.10	0.10
n-Heptane	0.050	U	0.050	0.050
Trichloroethene	15	E	0.050	0.050
1,2-Dichloropropane	0.10	U	0.10	0.10
Bromodichloromethane	0.050	U	0.050	0.050
cis-1,3-Dichloropropene	0.050	U	0.050	0.050
Toluene	0.13		0.050	0.050
trans-1,3-Dichloropropene	0.050	U	0.050	0.050
1,1,2-Trichloroethane	0.050	U	0.050	0.050
Tetrachloroethene	1.2		0.050	0.050
Dibromochloromethane	0.050	U	0.050	0.050
1,2-Dibromoethane	0.050	U	0.050	0.050
Ethylbenzene	0.050	U	0.050	0.050
o-Xylene	0.050	U	0.050	0.050
Bromoform	0.050	U	0.050	0.050
1,1,2,2-Tetrachloroethane	0.050	U	0.050	0.050
4-Ethyltoluene	0.050	U	0.050	0.050
1,3,5-Trimethylbenzene	0.10	U	0.10	0.10
m-Xylene & p-Xylene	0.10	U	0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	3.7		0.25	0.25
1,2-Dichlorotetrafluoroethane	0.35	U	0.35	0.35
Vinyl chloride	0.26	U	0.26	0.26
Bromomethane	0.39	U	0.39	0.39
Chloroethane	0.26	U	0.26	0.26
Trichlorofluoromethane	1.8		0.28	0.28
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.31	U	0.31	0.31
Methyl tert-butyl ether	0.18	U	0.18	0.18

### Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G4

Lab Sample ID: 200-15277-13

Date Sampled: 02/28/2013 0944

Client Matrix: Air

Date Received: 03/01/2013 0755

#### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh22.d
Dilution:	5.0			Initial Weight/Volume:	484 mL
Analysis Date:	03/20/2013 0943			Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 0943			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	5.6		0.20	0.20
Chloroform	5.4		0.24	0.24
1,1,1-Trichloroethane	5.0		0.27	0.27
Carbon tetrachloride	11		0.31	0.31
Benzene	0.16	U	0.16	0.16
1,2-Dichloroethane	0.40	U	0.40	0.40
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	82 <sup>71</sup>	<del>E</del>	0.27	0.27
1,2-Dichloropropane	0.46	U	0.46	0.46
Bromodichloromethane	0.34	U	0.34	0.34
cis-1,3-Dichloropropene	0.23	U	0.23	0.23
Toluene	0.48		0.19	0.19
trans-1,3-Dichloropropene	0.23	U	0.23	0.23
1,1,2-Trichloroethane	0.27	U	0.27	0.27
Tetrachloroethene	8.5		0.34	0.34
Dibromochloromethane	0.43	U	0.43	0.43
1,2-Dibromoethane	0.38	U	0.38	0.38
Ethylbenzene	0.22	U	0.22	0.22
o-Xylene	0.22	U <sup>7</sup>	0.22	0.22
Bromoform	0.52	U <sup>J</sup>	0.52	0.52
1,1,2,2-Tetrachloroethane	0.34	U	0.34	0.34
4-Ethyltoluene	0.25	U <sup>3</sup>	0.25	0.25
1,3,5-Trimethylbenzene	0.49	U <sup>3</sup>	0.49	0.49
m-Xylene & p-Xylene	0.43	U <sup>3</sup>	0.43	0.43

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G4

Lab Sample ID: 200-15277-13

Date Sampled: 02/28/2013 0944

Client Matrix: Air

Date Received: 03/01/2013 0755

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh23.d
Dilution:	24.9			Initial Weight/Volume:	97 mL
Analysis Date:	03/20/2013 1037	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 1037			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.84	D*	0.25	0.25
1,2-Dichlorotetrafluoroethane	0.25	U*	0.25	0.25
Vinyl chloride	0.50	U	0.50	0.50
Bromomethane	0.50	U	0.50	0.50
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.36	D	0.25	0.25
1,1-Dichloroethene	0.25	U	0.25	0.25
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.25	U*	0.25	0.25
trans-1,2-Dichloroethene	0.25	U	0.25	0.25
1,1-Dichloroethane	0.25	U	0.25	0.25
cis-1,2-Dichloroethene	1.1	D	0.25	0.25
Chloroform	1.1	D	0.25	0.25
1,1,1-Trichloroethane	0.87	D	0.25	0.25
Carbon tetrachloride	1.6	D	0.25	0.25
Benzene	0.25	U	0.25	0.25
1,2-Dichloroethane	0.50	U	0.50	0.50
n-Heptane	0.25	U	0.25	0.25
Trichloroethene	1.3	D	0.25	0.25
1,2-Dichloropropane	0.50	U	0.50	0.50
Bromodichloromethane	0.25	U	0.25	0.25
cis-1,3-Dichloropropene	0.25	U	0.25	0.25
Toluene	0.25	U	0.25	0.25
trans-1,3-Dichloropropene	0.25	U	0.25	0.25
1,1,2-Trichloroethane	0.25	U	0.25	0.25
Tetrachloroethene	1.4	D	0.25	0.25
Dibromochloromethane	0.25	U	0.25	0.25
1,2-Dibromoethane	0.25	U	0.25	0.25
Ethylbenzene	0.25	U	0.25	0.25
o-Xylene	0.25	U*	0.25	0.25
Bromoform	0.25	U	0.25	0.25
1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25
4-Ethyltoluene	0.25	U*	0.25	0.25
1,3,5-Trimethylbenzene	0.50	U*	0.50	0.50
m-Xylene & p-Xylene	0.50	U*	0.50	0.50

DO NOT USE

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	4.2	D*	1.2	1.2
1,2-Dichlorotetrafluoroethane	1.7	U*	1.7	1.7
Vinyl chloride	1.3	U	1.3	1.3
Bromomethane	1.9	U	1.9	1.9
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	2.0	D	1.4	1.4
1,1-Dichloroethene	0.99	U	0.99	0.99
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.90	U*	0.90	0.90

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G4

Lab Sample ID: 200-15277-13

Date Sampled: 02/28/2013 0944

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53205	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkh23.d
Dilution:	24.9			Initial Weight/Volume:	97 mL
Analysis Date:	03/20/2013 1037	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	03/20/2013 1037			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.99	U	0.99	0.99
1,1-Dichloroethane	1.0	U	1.0	1.0
cis-1,2-Dichloroethene	4.6	D	0.99	0.99
Chloroform	5.4	D	1.2	1.2
1,1,1-Trichloroethane	4.7	D	1.4	1.4
Carbon tetrachloride	10	D	1.6	1.6
Benzene	0.80	U	0.80	0.80
1,2-Dichloroethane	2.0	U	2.0	2.0
n-Heptane	1.0	U	1.0	1.0
Trichloroethene	71	D	1.3	1.3
1,2-Dichloropropane	2.3	U	2.3	2.3
Bromodichloromethane	1.7	U	1.7	1.7
cis-1,3-Dichloropropene	1.1	U	1.1	1.1
Toluene	0.94	U	0.94	0.94
trans-1,3-Dichloropropene	1.1	U	1.1	1.1
1,1,2-Trichloroethane	1.4	U	1.4	1.4
Tetrachloroethene	9.2	D	1.7	1.7
Dibromochloromethane	2.1	U	2.1	2.1
1,2-Dibromoethane	1.9	U	1.9	1.9
Ethylbenzene	1.1	U	1.1	1.1
o-Xylene	1.1	U*	1.1	1.1
Bromoform	2.6	U	2.6	2.6
1,1,2,2-Tetrachloroethane	1.7	U	1.7	1.7
4-Ethyltoluene	1.2	U*	1.2	1.2
1,3,5-Trimethylbenzene	2.4	U*	2.4	2.4
m-Xylene & p-Xylene	2.2	U*	2.2	2.2

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: **B73G5**

Lab Sample ID: 200-15277-14

Date Sampled: 02/28/2013 0952

Client Matrix: Air

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg22.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0855			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0855			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.56		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.20		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.025		0.020	0.020
Chloroform	0.032		0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.11		0.020	0.020
Benzene	0.069		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.10		0.020	0.020
Trichloroethene	0.46		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	1.6		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.13		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.24		0.020	0.020
o-Xylene	0.25		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.034		0.020	0.020
1,3,5-Trimethylbenzene	0.053		0.040	0.040
m-Xylene & p-Xylene	0.83		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.8		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.1		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G5

Lab Sample ID: 200-15277-14

Client Matrix: Air

Date Sampled: 02/28/2013 0952

Date Received: 03/01/2013 0755

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method: TO15 LL	Analysis Batch: 200-53196	Instrument ID: E.i
Prep Method: Summa Canister	Prep Batch: N/A	Lab File ID: efkg22.d
Dilution: 2.0		Initial Weight/Volume: 250 mL
Analysis Date: 03/19/2013 0855		Final Weight/Volume: 500 mL
Prep Date: 03/19/2013 0855		Injection Volume: 500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.10		0.079	0.079
Chloroform	0.16		0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.68		0.13	0.13
Benzene	0.22		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.41		0.082	0.082
Trichloroethene	2.5		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	6.1		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.90		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	1.1		0.087	0.087
o-Xylene	1.1		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.17		0.098	0.098
1,3,5-Trimethylbenzene	0.26		0.20	0.20
m-Xylene & p-Xylene	3.6		0.17	0.17

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G6

Lab Sample ID: 200-15277-15

Date Sampled: 02/28/2013 0954

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg23.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0948			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0948			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.57		0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.22		0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.028		0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.095		0.020	0.020
Benzene	0.097		0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.092		0.020	0.020
Trichloroethene	0.17		0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.44		0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.076		0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.052		0.020	0.020
o-Xylene	0.066		0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.20		0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.8		0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	1.2		0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

Client Sample ID: B73G6

Lab Sample ID: 200-15277-15

Date Sampled: 02/28/2013 0954

Client Matrix: Air

Date Received: 03/01/2013 0755

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-53196	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efkg23.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	03/19/2013 0948			Final Weight/Volume:	500 mL
Prep Date:	03/19/2013 0948			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.14		0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.60		0.13	0.13
Benzene	0.31		0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.38		0.082	0.082
Trichloroethene	0.89		0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	1.7		0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.51		0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.23		0.087	0.087
o-Xylene	0.29		0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,1,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.88		0.17	0.17

**Quality Control Results**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

**Method Blank - Batch: 200-53196**

**Method: TO15 LL**

**Preparation: Summa Canister**

Lab Sample ID: MB 200-53196/5  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 03/18/2013 1743  
 Prep Date: 03/18/2013 1743  
 Leach Date: N/A

Analysis Batch: 200-53196  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ppb v/v

Instrument ID: E.i  
 Lab File ID: efdg05.d  
 Initial Weight/Volume: 500 mL  
 Final Weight/Volume: 500 mL  
 Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Dichlorodifluoromethane	0.010	U	0.010	0.010
1,2-Dichlorotetrafluoroethane	0.010	U	0.010	0.010
Vinyl chloride	0.020	U	0.020	0.020
Bromomethane	0.020	U	0.020	0.020
Chloroethane	0.020	U	0.020	0.020
Trichlorofluoromethane	0.010	U	0.010	0.010
1,1-Dichloroethene	0.010	U	0.010	0.010
3-Chloropropene	0.020	U	0.020	0.020
Methyl tert-butyl ether	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
1,1-Dichloroethane	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
Chloroform	0.010	U	0.010	0.010
1,1,1-Trichloroethane	0.010	U	0.010	0.010
Carbon tetrachloride	0.010	U	0.010	0.010
Benzene	0.010	U	0.010	0.010
1,2-Dichloroethane	0.020	U	0.020	0.020
n-Heptane	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
1,2-Dichloropropane	0.020	U	0.020	0.020
Bromodichloromethane	0.010	U	0.010	0.010
cis-1,3-Dichloropropene	0.010	U	0.010	0.010
Toluene	0.010	U	0.010	0.010
trans-1,3-Dichloropropene	0.010	U	0.010	0.010
1,1,2-Trichloroethane	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010
Dibromochloromethane	0.010	U	0.010	0.010
1,2-Dibromoethane	0.010	U	0.010	0.010
Ethylbenzene	0.010	U	0.010	0.010
o-Xylene	0.010	U	0.010	0.010
Bromoform	0.010	U	0.010	0.010
1,1,2,2-Tetrachloroethane	0.010	U	0.010	0.010
4-Ethyltoluene	0.010	U	0.010	0.010
1,3,5-Trimethylbenzene	0.020	U	0.020	0.020
m-Xylene & p-Xylene	0.020	U	0.020	0.020

## Quality Control Results

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

**Method Blank - Batch: 200-53196**

**Method: TO15 LL**

**Preparation: Summa Canister**

Lab Sample ID: MB 200-53196/5  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 03/18/2013 1743  
 Prep Date: 03/18/2013 1743  
 Leach Date: N/A

Analysis Batch: 200-53196  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/m3

Instrument ID: E.i  
 Lab File ID: efkg05.d  
 Initial Weight/Volume: 500 mL  
 Final Weight/Volume: 500 mL  
 Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Dichlorodifluoromethane	0.049	U	0.049	0.049
1,2-Dichlorotetrafluoroethane	0.070	U	0.070	0.070
Vinyl chloride	0.051	U	0.051	0.051
Bromomethane	0.078	U	0.078	0.078
Chloroethane	0.053	U	0.053	0.053
Trichlorofluoromethane	0.056	U	0.056	0.056
1,1-Dichloroethene	0.040	U	0.040	0.040
3-Chloropropene	0.063	U	0.063	0.063
Methyl tert-butyl ether	0.036	U	0.036	0.036
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
1,1-Dichloroethane	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
Chloroform	0.049	U	0.049	0.049
1,1,1-Trichloroethane	0.055	U	0.055	0.055
Carbon tetrachloride	0.063	U	0.063	0.063
Benzene	0.032	U	0.032	0.032
1,2-Dichloroethane	0.081	U	0.081	0.081
n-Heptane	0.041	U	0.041	0.041
Trichloroethene	0.054	U	0.054	0.054
1,2-Dichloropropane	0.092	U	0.092	0.092
Bromodichloromethane	0.067	U	0.067	0.067
cis-1,3-Dichloropropene	0.045	U	0.045	0.045
Toluene	0.038	U	0.038	0.038
trans-1,3-Dichloropropene	0.045	U	0.045	0.045
1,1,2-Trichloroethane	0.055	U	0.055	0.055
Tetrachloroethene	0.068	U	0.068	0.068
Dibromochloromethane	0.085	U	0.085	0.085
1,2-Dibromoethane	0.077	U	0.077	0.077
Ethylbenzene	0.043	U	0.043	0.043
o-Xylene	0.043	U	0.043	0.043
Bromoform	0.10	U	0.10	0.10
1,1,2,2-Tetrachloroethane	0.069	U	0.069	0.069
4-Ethyltoluene	0.049	U	0.049	0.049
1,3,5-Trimethylbenzene	0.098	U	0.098	0.098
m-Xylene & p-Xylene	0.087	U	0.087	0.087

**Quality Control Results**

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 200-53196**

**Method: TO15 LL  
Preparation: Summa Canister**

LCS Lab Sample ID:	LCS 200-53196/3	Analysis Batch:	200-53196	Instrument ID:	E.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	efkg03.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	03/18/2013 1556	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 1556			Injection Volume:	500 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 200-53196/4	Analysis Batch:	200-53196	Instrument ID:	E.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	efkg04.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	03/18/2013 1649	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	03/18/2013 1649			Injection Volume:	500 mL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Dichlorodifluoromethane	106	117	70 - 130	10	25		
1,2-Dichlorotetrafluoroethane	109	122	70 - 130	11	25		
Vinyl chloride	97	111	70 - 130	14	25		
Bromomethane	96	104	70 - 130	8	25		
Chloroethane	78	94	70 - 130	19	25		
Trichlorofluoromethane	97	101	70 - 130	4	25		
1,1-Dichloroethene	93	93	70 - 130	1	25		
3-Chloropropene	97	91	70 - 130	6	25		
Methyl tert-butyl ether	116	105	70 - 130	10	25		
trans-1,2-Dichloroethene	102	102	70 - 130	0	25		
1,1-Dichloroethane	109	107	70 - 130	1	25		
cis-1,2-Dichloroethene	102	104	70 - 130	2	25		
Chloroform	97	103	70 - 130	5	25		
1,1,1-Trichloroethane	105	113	70 - 130	7	25		
Carbon tetrachloride	99	107	70 - 130	8	25		
Benzene	87	92	70 - 130	6	25		
1,2-Dichloroethane	106	111	70 - 130	5	25		
n-Heptane	92	92	70 - 130	0	25		
Trichloroethene	96	104	70 - 130	8	25		
1,2-Dichloropropane	102	114	70 - 130	11	25		
Bromodichloromethane	100	112	70 - 130	11	25		
cis-1,3-Dichloropropene	107	113	70 - 130	5	25		
Toluene	109	108	70 - 130	1	25		
trans-1,3-Dichloropropene	110	118	70 - 130	7	25		
1,1,2-Trichloroethane	93	95	70 - 130	2	25		
Tetrachloroethene	96	95	70 - 130	1	25		
Dibromochloromethane	108	107	70 - 130	0	25		
1,2-Dibromoethane	98	102	70 - 130	4	25		
Ethylbenzene	106	107	70 - 130	1	25		
o-Xylene	119	104	70 - 130	13	25		
Bromoform	112	112	70 - 130	0	25		
1,1,2,2-Tetrachloroethane	96	96	70 - 130	0	25		
4-Ethyltoluene	117	118	70 - 130	1	25		
1,3,5-Trimethylbenzene	104	107	70 - 130	2	25		
m-Xylene & p-Xylene	124	112	70 - 130	10	25		

## Quality Control Results

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1  
Sdg Number: B73F2

**Laboratory Control/  
Laboratory Duplicate Data Report - Batch: 200-53196**

**Method: TO15 LL  
Preparation: Summa Canister**

LCS Lab Sample ID: LCS 200-53196/3      Units: ppb v/v  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 03/18/2013 1556  
Prep Date: 03/18/2013 1556  
Leach Date: N/A

LCSD Lab Sample ID: LCSD 200-53196/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 03/18/2013 1649  
Prep Date: 03/18/2013 1649  
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Dichlorodifluoromethane	0.200	0.200	0.211	0.234
1,2-Dichlorotetrafluoroethane	0.200	0.200	0.217	0.243
Vinyl chloride	0.200	0.200	0.194	0.222
Bromomethane	0.200	0.200	0.192	0.207
Chloroethane	0.200	0.200	0.156	0.188
Trichlorofluoromethane	0.200	0.200	0.193	0.201
1,1-Dichloroethene	0.200	0.200	0.186	0.185
3-Chloropropene	0.200	0.200	0.193	0.182
Methyl tert-butyl ether	0.200	0.200	0.232	0.209
trans-1,2-Dichloroethene	0.200	0.200	0.203	0.203
1,1-Dichloroethane	0.200	0.200	0.217	0.214
cis-1,2-Dichloroethene	0.200	0.200	0.204	0.208
Chloroform	0.200	0.200	0.194	0.205
1,1,1-Trichloroethane	0.200	0.200	0.210	0.226
Carbon tetrachloride	0.200	0.200	0.197	0.213
Benzene	0.200	0.200	0.173	0.184
1,2-Dichloroethane	0.200	0.200	0.211	0.221
n-Heptane	0.200	0.200	0.184	0.184
Trichloroethene	0.200	0.200	0.192	0.208
1,2-Dichloropropane	0.200	0.200	0.203	0.227
Bromodichloromethane	0.200	0.200	0.200	0.224
cis-1,3-Dichloropropene	0.200	0.200	0.214	0.225
Toluene	0.200	0.200	0.218	0.215
trans-1,3-Dichloropropene	0.200	0.200	0.220	0.234
1,1,2-Trichloroethane	0.200	0.200	0.186	0.189
Tetrachloroethene	0.200	0.200	0.193	0.191
Dibromochloromethane	0.200	0.200	0.215	0.214
1,2-Dibromoethane	0.200	0.200	0.195	0.203
Ethylbenzene	0.200	0.200	0.212	0.213
o-Xylene	0.200	0.200	0.237	0.207
Bromoform	0.200	0.200	0.224	0.223
1,1,2,2-Tetrachloroethane	0.200	0.200	0.192	0.192
4-Ethyltoluene	0.200	0.200	0.233	0.236
1,3,5-Trimethylbenzene	0.200	0.200	0.208	0.213
m-Xylene & p-Xylene	0.399	0.399	0.494	0.445

## Quality Control Results

Client: U.S. Environmental Protection Agency

Job Number: 200-15277-1

Sdg Number: B73F2

**Method Blank - Batch: 200-53205**

**Method: TO15 LL**

**Preparation: Summa Canister**

Lab Sample ID: MB 200-53205/5  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 03/19/2013 1825  
 Prep Date: 03/19/2013 1825  
 Leach Date: N/A

Analysis Batch: 200-53205  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ppb v/v

Instrument ID: E.i  
 Lab File ID: efkh05.d  
 Initial Weight/Volume: 500 mL  
 Final Weight/Volume: 500 mL  
 Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Dichlorodifluoromethane	0.010	U	0.010	0.010
1,2-Dichlorotetrafluoroethane	0.010	U	0.010	0.010
Vinyl chloride	0.020	U	0.020	0.020
Bromomethane	0.020	U	0.020	0.020
Chloroethane	0.020	U	0.020	0.020
Trichlorofluoromethane	0.010	U	0.010	0.010
1,1-Dichloroethene	0.010	U	0.010	0.010
3-Chloropropene	0.020	U	0.020	0.020
Methyl tert-butyl ether	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
1,1-Dichloroethane	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
Chloroform	0.010	U	0.010	0.010
1,1,1-Trichloroethane	0.010	U	0.010	0.010
Carbon tetrachloride	0.010	U	0.010	0.010
Benzene	0.010	U	0.010	0.010
1,2-Dichloroethane	0.020	U	0.020	0.020
n-Heptane	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
1,2-Dichloropropane	0.020	U	0.020	0.020
Bromodichloromethane	0.010	U	0.010	0.010
cis-1,3-Dichloropropene	0.010	U	0.010	0.010
Toluene	0.010	U	0.010	0.010
trans-1,3-Dichloropropene	0.010	U	0.010	0.010
1,1,2-Trichloroethane	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010
Dibromochloromethane	0.010	U	0.010	0.010
1,2-Dibromoethane	0.010	U	0.010	0.010
Ethylbenzene	0.010	U	0.010	0.010
o-Xylene	0.010	U	0.010	0.010
Bromoform	0.010	U	0.010	0.010
1,1,2,2-Tetrachloroethane	0.010	U	0.010	0.010
4-Ethyltoluene	0.010	U	0.010	0.010
1,3,5-Trimethylbenzene	0.020	U	0.020	0.020
m-Xylene & p-Xylene	0.020	U	0.020	0.020





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<b>Data Qualifier Definitions (National Functional Guidelines)</b>			
<b>Qualifier Symbol</b>	<b>Explanation</b>		
	<b>INORGANICS</b>	<b>ORGANICS</b>	<b>CHLORINATED DIOXIN/FURAN</b>
<b>U</b>	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
<b>J</b>	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
<b>J +</b>	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.	
<b>J -</b>	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.	
<b>UJ</b>	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
<b>R</b>	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
<b>N</b>		<i>The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".</i>	
<b>NJ</b>		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
<b>C</b>		This qualifier applies to <b>pesticide and Aroclor</b> results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
<b>X</b>		This qualifier applies to <b>pesticide and Aroclor</b> results when GC/MS analysis was attempted but was unsuccessful.	



## DATA ASSESSMENT

Data Validation report for Organic Analysis pursuant to the standard operating procedure (SOP) HW-31/VOA (Revision 5) entitled "Volatile Organic Analysis of Ambient Air in Canister by Method TO-15)

### 1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems were found for this qualification.

### 2. Leak Test Evaluation:

All canisters are leak tested prior to each sampling use. The initial pressure (approximately 206 kPa or 30 psi) is measured, the canister valve is closed, and the final pressure is checked after 24 hours. If acceptable, the pressure should not vary more than 13.8 kPa (2 psig) over the 24-hour period.

No problems were found for this qualification.

### 3. Canister Certification:

Canister certification involves two procedures: Blank Analysis and Blank Spike Analysis. The canister is "Certified Clean" if target analytes are < 0.2 ppbv. For the spiked canister, the acceptable % difference for any target compound at a nominal 10-ppbv concentration in humidified zero air is <30%.

No problems were found for this qualification.

### 4. Laboratory Control/Lab Control Duplicate Recovery (LCS/LCSD):

The LCS/LCS Duplicate data is generated to determine the long-term precision and accuracy of the analytical method. The LCS/LCS Duplicate may be used in conjunction with other QC criteria for additional qualification of data. The LCS is analyzed once per 24-hour analytical sequence and concurrently with the samples in the SDG. Percent recovery (%R) is expected in 70-130 % range. Relative percent difference (RPD) limit between LCS and LCSD is expected to be 25.

LCS/LCSD below QC criteria for o xylene, 4 ethyl toluene, 1,3,5 trimethylbenzene. Qualify non detects J.

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### 5. BLANK CONTAMINATION:



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Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples throughout field operations. If the concentration of the analyte is less than or equal five times (5X) the method blank concentration, the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified with "U" for these reasons:

**A) Method blank contamination:**

No problems were found for this qualification.

**B) Trip / Field or rinse blank contamination:**

No problems were found for this qualification.

**C) TIC's "R" rejected:**

Not applicable.

**6. MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems were found for this qualification.

**7. CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance. Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be  $\pm 30\%$  for all Target analytes. %D must be  $\pm 30\%$  for all Target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".



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Initial calibration %RSD greater than QC criteria for 1,3,5 trimethylbenzene. Qualify detects and non detects as estimated "J".

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Initial calibration %D greater than QC criteria for 4 ethylbenzene, 1,3,5 trimethylbenzene. Qualify detects and non detects as estimated "J".

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Initial calibration %D greater than QC criteria for o-xylene. Qualify detects and non detects as estimated "J".

B73G8

#### 8. INTERNAL STANDARDS PERFORMANCE:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than 40% from the most recent valid calibration standard area. The retention time of the internal standard must not vary more than  $\pm$  20 seconds from the latest daily (24-hour) calibration standard. If the area count is greater the 40% range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated "J", and all non-detects are not flagged. If the area count is less than the 40% range of the associated standard, all of the positive results for compounds quantitated with that IS are qualified as estimated "J", and all non-detects are qualified as unusable "UJ". If the area count is < 25%, flag all non-detects as unusable "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems were found for this qualification.

#### 9. COMPOUND IDENTIFICATION:

Compounds on the target analyte list (TCL) are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within 0.06 RRT units of the standard compound and have ion spectra which have a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems were found for this qualification.

#### 10. CONTRACT PROBLEMS NON-COMPLIANCE:

No problems were noted.

#### 11. FIELD DOCUMENTATION:

No problems were noted.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 2  
DESA/HWSB/HWSS  
2890, Woodbridge Avenue, Edison, NJ 08837

**12. OTHER CONSIDERATIONS:**

SDG narrative does not contain signature of the person responsible. It also does not contain statement of responsibility.

**13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:**

**Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following reports were identified not to be used.**

BATK2DL

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G7

Lab Sample ID: 200-15514-1

Date Sampled: 03/13/2013 0945

Client Matrix: Air

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53882	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giah07.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/02/2013 1541			Final Weight/Volume:	200 mL
Prep Date:	04/02/2013 1541			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.44		0.20	0.20
1,1-Dichloroethene	1.8		0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20		0.20	0.20
1,1-Dichloroethane	0.35		0.20	0.20
cis-1,2-Dichloroethene	9.1		0.20	0.20
Chloroform	9.1		0.20	0.20
1,1,1-Trichloroethane	2.1		0.20	0.20
Carbon tetrachloride	36		0.20	0.20
Benzene	0.20		0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	<del>70</del> 69	E	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.60		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	9.1		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	2.5		1.1	1.1
1,1-Dichloroethene	7.3		0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G7

Lab Sample ID: 200-15514-1

Client Matrix: Air

Date Sampled: 03/13/2013 0945

Date Received: 03/15/2013 0800

### TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53882	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giah07.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/02/2013 1541			Final Weight/Volume:	200 mL
Prep Date:	04/02/2013 1541			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.77		0.79	0.79
1,1-Dichloroethane	1.4		0.81	0.81
cis-1,2-Dichloroethene	36		0.79	0.79
Chloroform	45		0.98	0.98
1,1,1-Trichloroethane	11		1.1	1.1
Carbon tetrachloride	220		1.3	1.3
Benzene	0.63		0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	370	<del>E</del>	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	2.2		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	62		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G7

Lab Sample ID: 200-15514-1

Date Sampled: 03/13/2013 0945

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag10.d
Dilution:	2.74	Run Type:	DL	Initial Weight/Volume:	73 mL
Analysis Date:	04/01/2013 1716			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1716			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	1.4	U	1.4	1.4
1,2-Dichlorotetrafluoroethane	0.55	U	0.55	0.55
Vinyl chloride	0.55	U	0.55	0.55
Bromomethane	0.55	U	0.55	0.55
Chloroethane	1.4	U	1.4	1.4
Trichlorofluoromethane	0.55	U	0.55	0.55
1,1-Dichloroethene	2.0	D	0.55	0.55
3-Chloropropene	1.4	U	1.4	1.4
Methyl tert-butyl ether	0.55	U	0.55	0.55
trans-1,2-Dichloroethene	0.55	U	0.55	0.55
1,1-Dichloroethane	0.55	U	0.55	0.55
cis-1,2-Dichloroethene	9.4	D	0.55	0.55
Chloroform	9.6	D	0.55	0.55
1,1,1-Trichloroethane	1.9	D	0.55	0.55
Carbon tetrachloride	34	D	0.55	0.55
Benzene	0.55	U	0.55	0.55
1,2-Dichloroethane	0.55	U	0.55	0.55
n-Heptane	0.55	U	0.55	0.55
Trichloroethene	69	D	0.55	0.55
1,2-Dichloropropane	0.55	U	0.55	0.55
Bromodichloromethane	0.55	U	0.55	0.55
cis-1,3-Dichloropropene	0.55	U	0.55	0.55
Toluene	0.55	U	0.55	0.55
trans-1,3-Dichloropropene	0.55	U	0.55	0.55
1,1,2-Trichloroethane	0.55	U	0.55	0.55
Tetrachloroethene	7.9	D	0.55	0.55
Dibromochloromethane	0.55	U	0.55	0.55
1,2-Dibromoethane	0.55	U	0.55	0.55
Ethylbenzene	0.55	U	0.55	0.55
m-Xylene & p-Xylene	1.4	U	1.4	1.4
o-Xylene	0.55	U	0.55	0.55
Bromoform	0.55	U	0.55	0.55
1,1,2,2-Tetrachloroethane	0.55	U	0.55	0.55
4-Ethyltoluene	0.55	U	0.55	0.55
1,3,5-Trimethylbenzene	0.55	U	0.55	0.55

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	6.8	U	6.8	6.8
1,2-Dichlorotetrafluoroethane	3.8	U	3.8	3.8
Vinyl chloride	1.4	U	1.4	1.4
Bromomethane	2.1	U	2.1	2.1
Chloroethane	3.6	U	3.6	3.6
Trichlorofluoromethane	3.1	U	3.1	3.1
1,1-Dichloroethene	7.8	D	2.2	2.2
3-Chloropropene	4.3	U	4.3	4.3
Methyl tert-butyl ether	2.0	U	2.0	2.0

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1  
Sdg Number: B73G7

Client Sample ID: B73G7

Lab Sample ID: 200-15514-1  
Client Matrix: Air

Date Sampled: 03/13/2013 0945  
Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag10.d
Dilution:	2.74			Initial Weight/Volume:	73 mL
Analysis Date:	04/01/2013 1716	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1716			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	2.2	U	2.2	2.2
1,1-Dichloroethane	2.2	U	2.2	2.2
cis-1,2-Dichloroethene	37	D	2.2	2.2
Chloroform	47	D	2.7	2.7
1,1,1-Trichloroethane	11	D	3.0	3.0
Carbon tetrachloride	210	D	3.4	3.4
Benzene	1.8	U	1.8	1.8
1,2-Dichloroethane	2.2	U	2.2	2.2
n-Heptane	2.2	U	2.2	2.2
Trichloroethene	370	D	2.9	2.9
1,2-Dichloropropane	2.5	U	2.5	2.5
Bromodichloromethane	3.7	U	3.7	3.7
cis-1,3-Dichloropropene	2.5	U	2.5	2.5
Toluene	2.1	U	2.1	2.1
trans-1,3-Dichloropropene	2.5	U	2.5	2.5
1,1,2-Trichloroethane	3.0	U	3.0	3.0
Tetrachloroethene	53	D	3.7	3.7
Dibromochloromethane	4.7	U	4.7	4.7
1,2-Dibromoethane	4.2	U	4.2	4.2
Ethylbenzene	2.4	U	2.4	2.4
m-Xylene & p-Xylene	5.9	U	5.9	5.9
o-Xylene	2.4	U	2.4	2.4
Bromoform	5.7	U	5.7	5.7
1,1,2,2-Tetrachloroethane	3.8	U	3.8	3.8
4-Ethyltoluene	2.7	U	2.7	2.7
1,3,5-Trimethylbenzene	2.7	U	2.7	2.7

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G9

Lab Sample ID: 200-15514-3

Client Matrix: Air

Date Sampled: 03/13/2013 0955

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag11.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1806			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1806			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.26		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	2.3		0.20	0.20
1,1,1-Trichloroethane	2.3		0.20	0.20
Carbon tetrachloride	1.9		0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.35		0.20	0.20
Trichloroethene	13		0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	5.2		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.5		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G9

Lab Sample ID: 200-15514-3

Client Matrix: Air

Date Sampled: 03/13/2013 0955

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag11.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1806			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1806			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	11		0.98	0.98
1,1,1-Trichloroethane	13		1.1	1.1
Carbon tetrachloride	12		1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	1.4		0.82	0.82
Trichloroethene	71		1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	35		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H0

Lab Sample ID: 200-15514-4

Date Sampled: 03/13/2013 1108

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag12.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1856			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1856			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.59		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.33		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	0.69		0.20	0.20
1,1,1-Trichloroethane	0.22		0.20	0.20
Carbon tetrachloride	1.7		0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	1.0		0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	0.52		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.9		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.8		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H0

Lab Sample ID: 200-15514-4

Date Sampled: 03/13/2013 1108

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag12.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1856			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1856			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	3.4		0.98	0.98
1,1,1-Trichloroethane	1.2		1.1	1.1
Carbon tetrachloride	11		1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	5.6		1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	3.5		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H1

Lab Sample ID: 200-15514-5

Date Sampled: 03/13/2013 1120

Client Matrix: Air

Date Received: 03/15/2013 0800

### TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag13.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1947			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1947			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.59		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.27		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	0.20	U	0.20	0.20
1,1,1-Trichloroethane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
Benzene	0.48		0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.59		0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	2.9		0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	0.35		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20		0.20	0.20
m-Xylene & p-Xylene	0.73		0.50	0.50
o-Xylene	0.21		0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.9		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.5		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1  
Sdg Number: B73G7

Client Sample ID: B73H1

Lab Sample ID: 200-15514-5  
Client Matrix: Air

Date Sampled: 03/13/2013 1120  
Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag13.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 1947			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 1947			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	0.98	U	0.98	0.98
1,1,1-Trichloroethane	1.1	U	1.1	1.1
Carbon tetrachloride	1.3	U	1.3	1.3
Benzene	1.5		0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	2.4		0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	11		0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	2.4		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.88		0.87	0.87
m-Xylene & p-Xylene	3.2		2.2	2.2
o-Xylene	0.92		0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H2

Lab Sample ID: 200-15514-6

Date Sampled: 03/13/2013 1140

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag14.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2037			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2037			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.58		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.37		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	0.63		0.20	0.20
1,1,1-Trichloroethane	0.94		0.20	0.20
Carbon tetrachloride	2.1		0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	1.1		0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	1.2		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.9		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	2.1		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H2

Lab Sample ID: 200-15514-6

Date Sampled: 03/13/2013 1140

Client Matrix: Air

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag14.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2037			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2037			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	3.1		0.98	0.98
1,1,1-Trichloroethane	5.1		1.1	1.1
Carbon tetrachloride	13		1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	6.2		1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	8.2		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H3

Lab Sample ID: 200-15514-7

Client Matrix: Air

Date Sampled: 03/13/2013 1143

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag15.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2128			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2128			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.29		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	0.43		0.20	0.20
1,1,1-Trichloroethane	1.5		0.20	0.20
Carbon tetrachloride	0.60		0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	1.7		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.7		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H3

Lab Sample ID: 200-15514-7

Date Sampled: 03/13/2013 1143

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag15.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2128			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2128			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	2.1		0.98	0.98
1,1,1-Trichloroethane	8.0		1.1	1.1
Carbon tetrachloride	3.7		1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	11		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H4

Lab Sample ID: 200-15514-8

Date Sampled: 03/13/2013 1701

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag16.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2219			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2219			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	0.98	U	0.98	0.98
1,1,1-Trichloroethane	1.1	U	1.1	1.1
Carbon tetrachloride	1.3	U	1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	1.1	U	1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H4

Lab Sample ID: 200-15514-8

Date Sampled: 03/13/2013 1701

Client Matrix: Air

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53734	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giag16.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	04/01/2013 2219			Final Weight/Volume:	200 mL
Prep Date:	04/01/2013 2219			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.56		0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.24		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	0.20	U	0.20	0.20
1,1,1-Trichloroethane	0.20	U	0.20	0.20
Carbon tetrachloride	0.20	U	0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.8		2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	1.4		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H5

Lab Sample ID: 200-15514-9

Date Sampled: 03/14/2013 1103

Client Matrix: Air

Date Received: 03/15/2013 0800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-53882	Instrument ID:	G.I
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giah08.d
Dilution:	1.0			Initial Weight/Volume:	334 mL
Analysis Date:	04/02/2013 1632			Final Weight/Volume:	200 mL
Prep Date:	04/02/2013 1632			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.50	U	0.50	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
Vinyl chloride	0.20	U	0.20	0.20
Bromomethane	0.20	U	0.20	0.20
Chloroethane	0.50	U	0.50	0.50
Trichlorofluoromethane	0.63		0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
3-Chloropropene	0.50	U	0.50	0.50
Methyl tert-butyl ether	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
1,1-Dichloroethane	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
Chloroform	3.3		0.20	0.20
1,1,1-Trichloroethane	1.3		0.20	0.20
Carbon tetrachloride	21		0.20	0.20
Benzene	0.20	U	0.20	0.20
1,2-Dichloroethane	0.20	U	0.20	0.20
n-Heptane	0.20	U	0.20	0.20
Trichloroethene	8.4		0.20	0.20
1,2-Dichloropropane	0.20	U	0.20	0.20
Bromodichloromethane	0.20	U	0.20	0.20
cis-1,3-Dichloropropene	0.20	U	0.20	0.20
Toluene	0.20	U	0.20	0.20
trans-1,3-Dichloropropene	0.20	U	0.20	0.20
1,1,2-Trichloroethane	0.20	U	0.20	0.20
Tetrachloroethene	1.5		0.20	0.20
Dibromochloromethane	0.20	U	0.20	0.20
1,2-Dibromoethane	0.20	U	0.20	0.20
Ethylbenzene	0.20	U	0.20	0.20
m-Xylene & p-Xylene	0.50	U	0.50	0.50
o-Xylene	0.20	U	0.20	0.20
Bromoform	0.20	U	0.20	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
4-Ethyltoluene	0.20	U	0.20	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	2.5	U	2.5	2.5
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	1.4
Vinyl chloride	0.51	U	0.51	0.51
Bromomethane	0.78	U	0.78	0.78
Chloroethane	1.3	U	1.3	1.3
Trichlorofluoromethane	3.6		1.1	1.1
1,1-Dichloroethene	0.79	U	0.79	0.79
3-Chloropropene	1.6	U	1.6	1.6
Methyl tert-butyl ether	0.72	U	0.72	0.72

**Analytical Data**

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73H5

Lab Sample ID: 200-15514-9

Date Sampled: 03/14/2013 1103

Client Matrix: Air

Date Received: 03/15/2013 0800

**TO-15 Volatile Organic Compounds in Ambient Air**

Analysis Method:	TO-15	Analysis Batch:	200-53882	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	giah08.d
Dilution:	1.0			Initial Weight/Volume:	334 mL
Analysis Date:	04/02/2013 1632			Final Weight/Volume:	200 mL
Prep Date:	04/02/2013 1632			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
1,1-Dichloroethane	0.81	U	0.81	0.81
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
Chloroform	16		0.98	0.98
1,1,1-Trichloroethane	7.3		1.1	1.1
Carbon tetrachloride	130		1.3	1.3
Benzene	0.64	U	0.64	0.64
1,2-Dichloroethane	0.81	U	0.81	0.81
n-Heptane	0.82	U	0.82	0.82
Trichloroethene	45		1.1	1.1
1,2-Dichloropropane	0.92	U	0.92	0.92
Bromodichloromethane	1.3	U	1.3	1.3
cis-1,3-Dichloropropene	0.91	U	0.91	0.91
Toluene	0.75	U	0.75	0.75
trans-1,3-Dichloropropene	0.91	U	0.91	0.91
1,1,2-Trichloroethane	1.1	U	1.1	1.1
Tetrachloroethene	10		1.4	1.4
Dibromochloromethane	1.7	U	1.7	1.7
1,2-Dibromoethane	1.5	U	1.5	1.5
Ethylbenzene	0.87	U	0.87	0.87
m-Xylene & p-Xylene	2.2	U	2.2	2.2
o-Xylene	0.87	U	0.87	0.87
Bromoform	2.1	U	2.1	2.1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	1.4
4-Ethyltoluene	0.98	U	0.98	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98	0.98

Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G8

Lab Sample ID: 200-15514-2TB

Date Sampled: 03/13/2013 1600

Client Matrix: Air

Date Received: 03/15/2013 0800

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53794	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efme06.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/02/2013 1627			Final Weight/Volume:	500 mL
Prep Date:	04/02/2013 1627			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Dichlorodifluoromethane	0.020	U	0.020	0.020
1,2-Dichlorotetrafluoroethane	0.020	U	0.020	0.020
Vinyl chloride	0.040	U	0.040	0.040
Bromomethane	0.040	U	0.040	0.040
Chloroethane	0.040	U	0.040	0.040
Trichlorofluoromethane	0.020	U	0.020	0.020
1,1-Dichloroethene	0.020	U	0.020	0.020
3-Chloropropene	0.040	U	0.040	0.040
Methyl tert-butyl ether	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
1,1-Dichloroethane	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
Chloroform	0.020	U	0.020	0.020
1,1,1-Trichloroethane	0.020	U	0.020	0.020
Carbon tetrachloride	0.020	U	0.020	0.020
Benzene	0.020	U	0.020	0.020
1,2-Dichloroethane	0.040	U	0.040	0.040
n-Heptane	0.020	U	0.020	0.020
Trichloroethene	0.020	U	0.020	0.020
1,2-Dichloropropane	0.040	U	0.040	0.040
Bromodichloromethane	0.020	U	0.020	0.020
cis-1,3-Dichloropropene	0.020	U	0.020	0.020
Toluene	0.020	U	0.020	0.020
trans-1,3-Dichloropropene	0.020	U	0.020	0.020
1,1,2-Trichloroethane	0.020	U	0.020	0.020
Tetrachloroethene	0.020	U	0.020	0.020
Dibromochloromethane	0.020	U	0.020	0.020
1,2-Dibromoethane	0.020	U	0.020	0.020
Ethylbenzene	0.020	U	0.020	0.020
o-Xylene	0.020	U	0.020	0.020
Bromoform	0.020	U	0.020	0.020
1,1,2,2-Tetrachloroethane	0.020	U	0.020	0.020
4-Ethyltoluene	0.020	U	0.020	0.020
1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
m-Xylene & p-Xylene	0.040	U	0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Dichlorodifluoromethane	0.099	U	0.099	0.099
1,2-Dichlorotetrafluoroethane	0.14	U	0.14	0.14
Vinyl chloride	0.10	U	0.10	0.10
Bromomethane	0.16	U	0.16	0.16
Chloroethane	0.11	U	0.11	0.11
Trichlorofluoromethane	0.11	U	0.11	0.11
1,1-Dichloroethene	0.079	U	0.079	0.079
3-Chloropropene	0.13	U	0.13	0.13
Methyl tert-butyl ether	0.072	U	0.072	0.072

## Analytical Data

Client: U.S. Environmental Protection Agency

Job Number: 200-15514-1

Sdg Number: B73G7

Client Sample ID: B73G8

Lab Sample ID: 200-15514-2TB

Date Sampled: 03/13/2013 1600

Client Matrix: Air

Date Received: 03/15/2013 0800

### TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-53794	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	efme06.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	04/02/2013 1627			Final Weight/Volume:	500 mL
Prep Date:	04/02/2013 1627			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
1,1-Dichloroethane	0.081	U	0.081	0.081
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
Chloroform	0.098	U	0.098	0.098
1,1,1-Trichloroethane	0.11	U	0.11	0.11
Carbon tetrachloride	0.13	U	0.13	0.13
Benzene	0.064	U	0.064	0.064
1,2-Dichloroethane	0.16	U	0.16	0.16
n-Heptane	0.082	U	0.082	0.082
Trichloroethene	0.11	U	0.11	0.11
1,2-Dichloropropane	0.18	U	0.18	0.18
Bromodichloromethane	0.13	U	0.13	0.13
cis-1,3-Dichloropropene	0.091	U	0.091	0.091
Toluene	0.075	U	0.075	0.075
trans-1,3-Dichloropropene	0.091	U	0.091	0.091
1,1,2-Trichloroethane	0.11	U	0.11	0.11
Tetrachloroethene	0.14	U	0.14	0.14
Dibromochloromethane	0.17	U	0.17	0.17
1,2-Dibromoethane	0.15	U	0.15	0.15
Ethylbenzene	0.087	U	0.087	0.087
o-Xylene	0.087	U*	0.087	0.087
Bromoform	0.21	U	0.21	0.21
1,1,2,2-Tetrachloroethane	0.14	U	0.14	0.14
4-Ethyltoluene	0.098	U*	0.098	0.098
1,3,5-Trimethylbenzene	0.20	U*	0.20	0.20
m-Xylene & p-Xylene	0.17	U*	0.17	0.17



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Region 2 Laboratory  
2890 Woodbridge Avenue  
Edison , New Jersey 08837  
732-906-6886 Phone  
732-906-6165 Fax**

April 10, 2013

Rachael Graham  
Hazardous Waste Support Branch  
DESA/HWSB  
Edison, NJ 08837

RE: Alfred Heller Heat Treating Co - 1303081

Enclosed are the results of analyses for samples received by the laboratory on 03/14/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1303081 and contact John Birri by phone at 732-906-6886, or via Email at [birri.john@epa.gov](mailto:birri.john@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Bourbon".

John R. Bourbon  
Chief, DESA/LB



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Project: Alfred Heller Heat Treating Co - 1303081**

**Project Number: 1303081**

**Project Narrative:**

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

**Condition Comments**

None

**Comment(s):**

None

**Data Qualifier(s):**

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

**Reporting Limit(s):**

The Laboratory was able to achieve the appropriate limits for each analyte requested.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Project: Alfred Heller Heat Treating Co - 1303081**

**Project Number: 1303081**

**SUMMARY REPORT FOR SAMPLES**

<b>Field ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
TB-031413	1303081-01	Aqueous	03/14/2013 11:45	03/14/2013 16:25
P014-CB001-001-02	1303081-02	Aqueous	03/14/2013 11:42	03/14/2013 16:25
P014-CB001-001-01	1303081-03	Aqueous	03/14/2013 11:41	03/14/2013 16:25



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory**

**Project: Alfred Heller Heat Treating Co - 1303081**

**Project Number: 1303081**

**SUMMARY REPORT FOR METHODS**

<b>Analysis</b>	<b>Method</b>	<b>Certification</b>	<b>Matrix</b>
VOA SOM 1.2	ASTM D5916-96 / SOP B-24 Rev1.3		Aqueous



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Project: Alfred Heller Heat Treating Co - 1303081

Project Number: 1303081

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: TB-031413

Sample ID: 1303081-01

VOA GCMS

Dichlorodifluoromethane	---	U	5.0	ug/L
Chloromethane	---	U	5.0	ug/L
Vinyl Chloride	---	U	5.0	ug/L
Bromomethane	---	U	5.0	ug/L
Chloroethane	---	U	5.0	ug/L
Trichlorofluoromethane	---	U	5.0	ug/L
1,1-Dichloroethene	---	U	5.0	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.0	ug/L
Carbon Disulfide	---	U	5.0	ug/L
Acetone	---	U	10	ug/L
Methyl Acetate	---	U	5.0	ug/L
Methylene Chloride	---	U	5.0	ug/L
trans-1,2-Dichloroethene	---	U	5.0	ug/L
Methyl tert-Butyl Ether	---	U	5.0	ug/L
1,1-Dichloroethane	---	U	5.0	ug/L
cis-1,2-Dichloroethene	---	U	5.0	ug/L
2-Butanone	---	U	10	ug/L
Bromochloromethane	---	U	5.0	ug/L
Chloroform	---	U	5.0	ug/L
1,1,1-Trichloroethane	---	U	5.0	ug/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Project: Alfred Heller Heat Treating Co - 1303081

Project Number: 1303081

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: TB-031413

Sample ID: 1303081-01

VOA GCMS

Cyclohexane	---	U	5.0	ug/L
Carbon Tetrachloride	---	U	5.0	ug/L
Benzene	---	U	5.0	ug/L
1,2-Dichloroethane	---	U	5.0	ug/L
Trichloroethene	---	U	5.0	ug/L
1,2-Dichloropropane	---	U	5.0	ug/L
Bromodichloromethane	---	U	5.0	ug/L
cis-1,3-Dichloropropene	---	U	5.0	ug/L
4-Methyl-2-Pentanone	---	U	10	ug/L
Toluene	---	U	5.0	ug/L
trans-1,3-Dichloropropene	---	U	5.0	ug/L
1,1,2-Trichloroethane	---	U	5.0	ug/L
Tetrachloroethene	---	U J	5.0	ug/L
Methylcyclohexane	---	U	5.0	ug/L
Dibromochloromethane	---	U	5.0	ug/L
1,2-Dibromoethane	---	U	5.0	ug/L
2-Hexanone	---	U	10	ug/L
Chlorobenzene	---	U	5.0	ug/L
Ethylbenzene	---	U	5.0	ug/L
m/p-Xylene	---	U	5.0	ug/L
o-Xylene	---	U	5.0	ug/L
Styrene	---	U	5.0	ug/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Project: Alfred Heller Heat Treating Co - 1303081

Project Number: 1303081

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: TB-031413

Sample ID: 1303081-01

VOA GCMS

Bromoform	---	U	5.0	ug/L
Isopropylbenzene	---	U	5.0	ug/L
1,1,2,2-Tetrachloroethane	---	U	5.0	ug/L
1,3-Dichlorobenzene	---	U	5.0	ug/L
1,4-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dibromo-3-Chloropropane	---	U	5.0	ug/L
1,2,4-Trichlorobenzene	---	U	5.0	ug/L
1,2,3-Trichlorobenzene	---	U	5.0	ug/L
Propane, 2-bromo-1-chloro	5.2	NJ		ug/L

Field ID: P014-CB001-001-02

Sample ID: 1303081-02

VOA GCMS

Dichlorodifluoromethane	---	U	5.0	ug/L
Chloromethane	---	U	5.0	ug/L
Vinyl Chloride	---	U	5.0	ug/L
Bromomethane	---	U	5.0	ug/L
Chloroethane	---	U	5.0	ug/L
Trichlorofluoromethane	---	U	5.0	ug/L
1,1-Dichloroethene	---	U	5.0	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.0	ug/L
Carbon Disulfide	---	U	5.0	ug/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Project: Alfred Heller Heat Treating Co - 1303081

Project Number: 1303081

Analyte	Result	Qualifier	Reporting Limit	Units
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Field ID: P014-CB001-001-02

Sample ID: 1303081-02

VOA GCMS

Acetone	---	U	10	ug/L
Methyl Acetate	---	U	5.0	ug/L
Methylene Chloride	---	U	5.0	ug/L
trans-1,2-Dichloroethene	---	U	5.0	ug/L
Methyl tert-Butyl Ether	---	U	5.0	ug/L
1,1-Dichloroethane	---	U	5.0	ug/L
cis-1,2-Dichloroethene	---	U	5.0	ug/L
2-Butanone	---	U	10	ug/L
Bromochloromethane	---	U	5.0	ug/L
Chloroform	---	U	5.0	ug/L
1,1,1-Trichloroethane	---	U	5.0	ug/L
Cyclohexane	---	U	5.0	ug/L
Carbon Tetrachloride	10		5.0	ug/L
Benzene	---	U	5.0	ug/L
1,2-Dichloroethane	---	U	5.0	ug/L
Trichloroethene	---	U	5.0	ug/L
1,2-Dichloropropane	---	U	5.0	ug/L
Bromodichloromethane	---	U	5.0	ug/L
cis-1,3-Dichloropropene	---	U	5.0	ug/L
4-Methyl-2-Pentanone	---	U	10	ug/L
Toluene	---	U	5.0	ug/L
trans-1,3-Dichloropropene	---	U	5.0	ug/L



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Field ID: P014-CB001-001-02

Sample ID: 1303081-02

VOA GCMS

1,1,2-Trichloroethane	---	U	5.0	ug/L
Tetrachloroethene	---	U J	5.0	ug/L
Methylcyclohexane	---	U	5.0	ug/L
Dibromochloromethane	---	U	5.0	ug/L
1,2-Dibromoethane	---	U	5.0	ug/L
2-Hexanone	---	U	10	ug/L
Chlorobenzene	---	U	5.0	ug/L
Ethylbenzene	---	U	5.0	ug/L
m/p-Xylene	---	U	5.0	ug/L
o-Xylene	---	U	5.0	ug/L
Styrene	---	U	5.0	ug/L
Bromoform	---	U	5.0	ug/L
Isopropylbenzene	---	U	5.0	ug/L
1,1,2,2-Tetrachloroethane	---	U	5.0	ug/L
1,3-Dichlorobenzene	---	U	5.0	ug/L
1,4-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dibromo-3-Chloropropane	---	U	5.0	ug/L
1,2,4-Trichlorobenzene	---	U	5.0	ug/L
1,2,3-Trichlorobenzene	---	U	5.0	ug/L
Sulfur Dioxide	6.4	NJ		ug/L



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Field ID: P014-CB001-001-01

Sample ID: 1303081-03

VOA GCMS

Dichlorodifluoromethane	---	U	5.0	ug/L
Chloromethane	---	U	5.0	ug/L
Vinyl Chloride	---	U	5.0	ug/L
Bromomethane	---	U	5.0	ug/L
Chloroethane	---	U	5.0	ug/L
Trichlorofluoromethane	---	U	5.0	ug/L
1,1-Dichloroethene	---	U	5.0	ug/L
1,1,2-Trichloro-1,2,2-Trifluoroethane	---	U	5.0	ug/L
Carbon Disulfide	---	U	5.0	ug/L
Acetone	---	U	10	ug/L
Methyl Acetate	---	U	5.0	ug/L
Methylene Chloride	---	U	5.0	ug/L
trans-1,2-Dichloroethene	---	U	5.0	ug/L
Methyl tert-Butyl Ether	---	U	5.0	ug/L
1,1-Dichloroethane	---	U	5.0	ug/L
cis-1,2-Dichloroethene	---	U	5.0	ug/L
2-Butanone	---	U	10	ug/L
Bromochloromethane	---	U	5.0	ug/L
Chloroform	---	U	5.0	ug/L
1,1,1-Trichloroethane	---	U	5.0	ug/L
Cyclohexane	---	U	5.0	ug/L
Carbon Tetrachloride	9.5		5.0	ug/L



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Field ID: P014-CB001-001-01

Sample ID: 1303081-03

VOA GCMS

Benzene	---	U	5.0	ug/L
1,2-Dichloroethane	---	U	5.0	ug/L
Trichloroethene	---	U	5.0	ug/L
1,2-Dichloropropane	---	U	5.0	ug/L
Bromodichloromethane	---	U	5.0	ug/L
cis-1,3-Dichloropropene	---	U	5.0	ug/L
4-Methyl-2-Pentanone	---	U	10	ug/L
Toluene	---	U	5.0	ug/L
trans-1,3-Dichloropropene	---	U	5.0	ug/L
1,1,2-Trichloroethane	---	U	5.0	ug/L
Tetrachloroethene	---	U J	5.0	ug/L
Methylcyclohexane	---	U	5.0	ug/L
Dibromochloromethane	---	U	5.0	ug/L
1,2-Dibromoethane	---	U	5.0	ug/L
2-Hexanone	---	U	10	ug/L
Chlorobenzene	---	U	5.0	ug/L
Ethylbenzene	---	U	5.0	ug/L
m/p-Xylene	---	U	5.0	ug/L
o-Xylene	---	U	5.0	ug/L
Styrene	---	U	5.0	ug/L
Bromoform	---	U	5.0	ug/L
Isopropylbenzene	---	U	5.0	ug/L



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Field ID: P014-CB001-001-01

Sample ID: 1303081-03

VOA GCMS

1,1,2,2-Tetrachloroethane	---	U	5.0	ug/L
1,3-Dichlorobenzene	---	U	5.0	ug/L
1,4-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dichlorobenzene	---	U	5.0	ug/L
1,2-Dibromo-3-Chloropropane	---	U	5.0	ug/L
1,2,4-Trichlorobenzene	---	U	5.0	ug/L
1,2,3-Trichlorobenzene	---	U	5.0	ug/L
Propane, 2-bromo-1-chloro	5.1	NJ		ug/L