January 23, 2015

Mr. Glenn May New York State Department of Environmental Conservation Division of Environmental Remediation 270 Michigan Avenue Buffalo, New York 14203-2999

Subject: Sub-Slab Vapor Evaluation - Former Scott Aviation Facility Area 1 BCP Site NYSDEC Site Code No. C915233, Lancaster, New York

Dear Mr. May.

On behalf of Tyco International (Tyco), AECOM Technical Services, Inc. (AECOM) is pleased to provide you with this letter-report summarizing the results of the recently completed sub-slab vapor evaluation at New York State Department of Environmental Conservation (NYSDEC) Site Code No. C915233, located west of AVOX Systems Inc. (AVOX) Plant 1 at the Former Scott Aviation Facility Brownfield Cleanup Program (Site) in Lancaster, New York. The investigation was completed on December 24, 2014 on AVOX property, in the boiler room of Plant 1. This work was conducted in accordance with AECOM's approved Remedial Investigation/Alternatives Analysis (RI/AA) work plan dated February 2010 following discussions at the NYSDEC October 23, 2014 meeting. This letter-report discusses the project intent, sampling procedures, analytical results, and conclusions of the investigation with a comparison of the 2010 and 2014 data against the New York State Department of Health's (NYSDOH) final "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (October 2006), herein referred to as the DOH Guidance.

### **Project Intent**

The intent of this investigation was to re-assess the indoor air conditions in the boiler room following the previous sampling event in 2010 and determining if chlorinated volatile organic compounds (VOCs) are currently at concentrations sufficiently elevated to trigger mitigation activities.

During the scoping activity for installation of a sub-slab depressurization system associated with the Interim Remedial Measures Remedial Action Work Plan dated June 4, 2014, several foundation perforations (drains) were identified behind the boiler and associated machinery that were not noted during the original sampling effort. Also, several cracks in the concrete floor were observed which may have been conduits for sub-slab vapor to enter the boiler room. Prior to the December 24. 2014 sample collection, the floor cracks were patched and the foundation perforations were sealed.

Also, since the 2010 event the AVOX Plant 1 is no longer used for production (i.e., painting and plating activities have terminated).

DOH Guidance field methodology was followed and the guidance tables were used in an interpretive framework for interpreting the analytical data, where applicable.

### **Sampling Procedures**

In accordance with the RI/AA work procedures, one sub-slab vapor sample, one indoor vapor sample, one ambient (outdoor) air sample, and associated quality assurance / quality control (QA/QC) sample were collected on December 24, 2014 from the boiler room building at AVOX Plant 1.

On November 4, 2014, AECOM and NYSDEC inspected the concrete floor of the boiler room and sealed visible floor cracks with concrete calking. In addition, the annulus between a drain line effluent and the associated floor penetration foundation perforations was sealed with expanding foam. Two other foundation perforations (drains) were observed and temporarily plugged with modelling clay just prior to the sampling event. The floor drains appeared to discharge to the bedding gravel beneath the concrete floor slab (refer to **Attachment 1** for a photographic log).

On December 22, 2014, AECOM interviewed AVOX environmental health and safety engineer and completed the NYSDOH Indoor Air Quality Questionnaire and Building Inventory (refer to **Attachment 2**).

The sub-slab vapor point installed during the previous sampling event was inspected and determined not to be compromised. This point was reused in an attempt to minimize variability from data collected during the 2010 sampling event. Refer to the approved Remedial Action Report dated September 1, 2011 for details regarding the installation of the sub-slab vapor point.

On December 23, 2014, prior to sample collection, a new seal consisting of non-toxic modelling clay was placed in the vapor Teflon tubing/floor annulus. A tracer gas (helium) shroud was placed over the sub-sample vapor sample location prior to sampling to ensure the ambient (indoor) air was not being pulled into the canister during sampling. This was accomplished by placing a clean, small plastic shroud over the probe location. An air-tight seal was placed on the ground surface around the edge of the shroud where it contacted the ground. Prior to purging or sampling activities, helium tracer gas was injected into the helium shroud using application methods described in the DOH's Guidance (Section 2.7.5). Prior to collection of the sub-slab vapor sample, the point was purged of approximately three implant volumes (i.e., volume of the sample tube and sand pack). A Dielectric Technologies Model MGD-2002 Multi-Gas Leak Locator and GilAir-3 sample pump were used to purge the implant while simultaneously screening helium concentrations in purged vapor; the purge flow rate did not exceed 0.2 liters per minute. Once the seal was determined to be satisfactory, a MultiRae Model PGM-7240 photoionization detector (PID) was used to screen the sub-slab vapor, indoor air, and the ambient (outdoor) air for VOCs (refer to **Attachment 3** for log sheets).

One indoor air sample was collected in the boiler room with the sub-slab vapor sample at the sample location chosen during the 2010 sampling event. The sample port was located approximately four feet above the floor.

One ambient (outdoor) air sample was collected during the sub-slab and indoor air sampling activities. The ambient (outdoor) air sample was collected at the sample location chosen during the 2010 sampling event, approximately 100 feet upwind from the boiler room and approximately four feet above ground surface.

Sample collection was performed using a six-liter, stainless steel, Summa<sup>®</sup> canister, equipped with a 24-hour regulator. Sub-slab, indoor, and ambient (outdoor) air samples were collected concurrently; one field duplicate was also collected at the ambient (outdoor) air location for quality assurance purposes. The field geologist recorded the sample identification, canister and regulator

identification, date and time of sample collection, and the sampling method and device on a field log sheet. In addition, the purge volume, sample volume, canister vacuum pre- and post-sampling, and sampler name were recorded. The log sheet is included in **Attachment 3**. Any other pertinent field observations (i.e., odors or readings from field instrumentation) were also noted on the log sheet. The daily weather reports are also included in **Attachment 3**.

Samples were packaged and hand delivered to TestAmerica Laboratories in Amherst, New York under standard chain-of-custody procedures. TestAmerica Laboratories has a current NYSDOH Environmental Laboratory Approval Program certification for the state of New York. All samples were analyzed for VOCs using EPA Method TO-15. A Category B deliverable package was requested for the vapor data and included the following elements: analytical report; quality assurance/quality control summary; chain of custody; method blank; laboratory control samples – control limits; reporting limits; and, surrogate recoveries for gas chromatograph/mass spectrometer analysis with control limits (refer to **Attachment 4** for laboratory summary sheets). No petroleum or chemical odors were noted during sample collection and all PID readings were at or below background (approximately 1 part per million).

### **Analytical Results**

Based on the analytical results from the sub-slab vapor evaluation, ten compounds were detected in the sub-slab sample, four compounds were detected in the indoor air sample, and two compounds were collected from the ambient (outdoor) air sample. There were considerably less compounds detected during the 2014 event compared to the event performed in 2010. Refer to the attached **Table 1** for 2010 and 2014 air results compared to the United States Environmental Protection Agency Building Assessment and Survey Evaluation (BASE) database.

**Table 2** matches the seven compounds identified in the 2010 and 2014 samples to Table 3.1 in the DOH Guidance document; two compounds triggering 'mitigation' in 2010 were now listed as 'monitoring'.

Comparing the 2014 trichloroethene (TCE) concentrations of indoor air and sub-slab air to DOH Guidance Soil Vapor / Indoor Air Matrix 1 (note carbon tetrachloride and vinyl chloride were not detected), the recommended action is to "monitor".

Comparing the 2014 tetrachloroethylene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichlorethene (1,1-DCE), and 1,1,1-trichloroethane (1,1,1-TCA) concentrations of indoor air and sub-slab air to DOH Guidance Soil Vapor / Indoor Air Matrix 2, the recommended action based on the PCE concentration is to 'monitor'. 'No further action' is recommended based on the cis-1,2-DCE, 1,1-DCE and 1,1,1-TCA concentrations. The sub-slab concentration of PCE in 2014 was less than half of what the concentration of PCE was in 2010. Likewise, the concentrations of cis-1,2-DCE, 1,1-DCE and 1,1,1-TCA dropped by an order of magnitude.

The ambient (outdoor) air sample exhibited trace levels of two VOCs. In general, the analytical results from the field duplicate corroborated the concentrations identified in the parent sample (AS-1R) with the addition of two compounds.

The laboratory summary sheets are included as **Attachment 4**. The full analytical report (Category B deliverable package) with QA/QC data is available upon request.

#### Conclusions

 The 2014 indoor air sample did not detect any chlorinated VOCs listed in the DOH Guidance document.

- The 2014 sub-slab vapor sample detected 1,1,1-TCA, cis-1,2-DCE, 1,1-DCE, PCE, and TCE. According to the DOH decision matrices, PCE and TCE concentrations trigger an action of 'monitor' only, while the 1,1,1-TCA, cis-1,2-DCE, and 1,1-DCE concentrations are below an action level.
- Low concentrations of 1,1,1-TCA, cis-1,2-DCE, and TCE were detected in the ambient (outdoor) air sample.
- Prior to the collection of the 2014 samples, floor cracks were patched and the foundation
  perforations sealed, which has minimized the movement of sub-slab vapor contaminate into
  the building. The changes have decreased the concentrations in the indoor air samples
  and lowered the action level from 'mitigation' to 'monitoring'.

### Recommendations

 Based on the 2004 indoor air/sub-slab vapor sampling, no mitigation of the sub-slab vapor is required. Monitoring of the indoor air and sub-slab should be performed if the use or occupancy of the Boiler Room changes.

If you have any questions regarding this submission, please do not hesitate to contact me at (716) 836-4506 ext. 15 or via email.

Yours sincerely,

Dino L. Zack, P.G. Project Manager

dino.zack@aecom.com

Vino J. Jack

Attachments (Table 1, Table 2; Attachments 1, 2, 3, and 4)

Cc: Gregory Sutton (NYSDEC) – electronic copy Christopher Doroski (NYSDOH) – electronic copy Stuart Rixman (Tyco International) – electronic copy Joseph Janeczek (Tyco International) – electronic copy Julia Ispentchian (Tyco International) – electronic copy Jennifer Davide (AVOX Systems Inc.) – electronic copy AECOM Project File – electronic copy

# **TABLES**

Table 1 Air TO-15 Results Former Scott Aviation Facility Area 1 BCP Site

Type of Sample		AMBIEN	Т	AMBIEN	-	AMBIEN	IT	AMBIENT		SUBSLAE	3	INDOOR		SUBSLAE	3	INDOOR		75th Percentile	90th Percentile
Sample ID		AS-1	-	AS-DUPLICA		AS-1R		AS-R-DUPLIC	ΔTF	SS-2-SUBSL		SS-2-INDOC	)R	SS-2R-SUBSI		SS-2R-INDO	OR	(note 1)	(note 2)
Laboratory ID		RTF0696-01		RTF0696-06		200-26139-3		200-26139-4		RTF0696-04		RTF0696-05		200-26139-1		200-26139-2		(1.0.0 1)	(
Sampling Date	CAS No.	6/2/201		6/2/2010		12/24/20		12/24/2014		6/2/2010		6/2/2010		12/24/2014		12/24/2014			
Compound (µg/m³)		0,2,201		0,2,2010		12/2 1/20		12,2 1,201		0,2,2010		5,2,2515		12/2 1/201	•				
1,1,1-Trichloroethane	71-55-6	-	U	3.4	J	_	U	_	U	430		2.5		43			U	10.8	20.6
1,1,2,2-Tetrachloroethane	79-34-5	_	U	-	U	_	Ü	_	U	-	U	-	U	-	U	_	Ü	NL	NL
1,1,2-Trichloroethane	79-00-5	_	Ü	_	Ü	_	Ü	_	IJ	_	Ü	_	U	_	IJ	_	Ü	<1.4	<1.5
1,1-Dichloroethane	75-34-3	-	Ü	_	Ü	-	Ü	_	U	73		-	U	9.6		-	U	<0.5	<0.7
1,1-Dichloroethene	75-35-4	_	U	0.83	J	_	U	_	U	67	1	_	Ŭ	2		_	Ü	<1.1	<1.4
1,2,4-Trichlorobenzene	120-82-1	-	Ü	-	U	_	Ü	-	Ü	-	U	-	U	-	U	-	Ü	<1.2	<6.8
1,2,4-Trimethylbenzene	95-63-6	_	Ü	1.4	J	_	Ü	_	Ü	180		1.2	_	-	U	-	Ü	5.1	9.5
1,2-Dibromoethane	106-93-4	-	U	-	U	_	Ü	_	U	-	U	-	U	_	Ü	-	Ü	<1.4	<1.5
1,2-Dichlorobenzene	95-50-1	-	Ū	-	Ū	_	U	_	Ü	_	Ü	-	Ū	_	Ū	-	Ū	<1.0	<1.2
1,2-Dichloroethane	107-06-2	-	Ū	-	Ū	_	Ü	_	Ü	_	Ü	-	Ū	_	Ū	-	Ü	<0.7	<0.9
1,2-Dichloropropane	78-87-5	-	Ū	1.6	J	-	Ü	-	Ü	-	Ü	-	Ū	-	Ü	-	Ü	<1.6	<1.6
1,3,5-Trimethylbenzene	108-67-8	-	Ū	-	U	-	Ū	-	Ū	64		-	Ū	-	Ū	-	U	<4.6	3.7
1,3-Butadiene	106-99-0	-	U	-	U	-	Ū	-	Ū	-	U	-	Ū	-	U	-	Ū	<2.7	<3.0
1,3-Dichlorobenzene	541-73-1	-	Ū	-	U	-	Ū	-	Ū	-	U	-	Ū	-	U	-	U	<1.1	<2.4
1,4-Dichlorobenzene	106-46-7	-	Ū	-	Ū	-	U	-	Ü	-	Ü	-	Ū	-	Ū	-	Ü	<1.4	5.5
2,2,4-trimethylpentane	540-84-1	-	U	-	U	-	Ū	-	Ū	-	Ū	-	U	-	U	-	U	NL	NL
2-Chlorotoluene	95-49-8	-	Ū	-	Ü	-	Ū	-	Ü	-	Ü	-	Ū	-	Ü	-	Ü	NL	NL
4-ethyltoluene	622-96-8	-	U	-	U	-	U	-	U	26		-	U	-	U	-	U	<3.1	3.6
Allyl chloride	107-05-1	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	NL	NL
Benzene	71-43-2	-	U	2.4	J	-	U	-	U	35		2.3		-	U	0.82		5.1	9.4
Bromodichloromethane	75-27-4	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	NL	NL
Bromoform	75-25-2	-	Ū	-	U	-	Ū	-	Ū	-	U	-	Ū	-	U	-	U	NL	NL
Bromomethane	74-83-9	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.1	<1.7
Carbon disulfide	75-15-0	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	2.1	4.2
Carbon tetrachloride	56-23-5	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.1	<1.3
Chlorobenzene	108-90-7	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<0.8	<0.9
Chloroethane	75-00-3	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.0	<1.1
Chloroform	67-66-3	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.2	1.1
Chloromethane	74-87-3	1.3		1.2		-	U	1.1		-	U	1.3		-	U	1		3.1	3.7
cis-1,2-Dichloroethene	156-59-2	-	U	1.5	J	-	U	-	U	390		1.6		85		-	U	<1.2	<1.9
cis-1,3-Dichloropropene	10061-01-5	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<2.0	<2.3
Cyclohexane	110-83-8	-	U	1.1	J	-	U	-	U	480		-	U	-	U	-	U	NL	NL
Dibromochloromethane	124-48-1	-	U	-	C	-	U	-	U		U	-	U	-	U	-	U	NL	NL
Ethylbenzene	100-41-4	-	U	1.3	L	-	U	-	U	56		1.5		-	U	-	U	3.4	5.7
Freon 11 (trichlorofluoromethane)	75-69-4	1.4		1.7		1.2		1.2		24		1.6		5.1		1.1		6.7	18.1
Freon 113	76-13-1	2.0		2.5		-	U	-	U	1300		2.8		-	U	-	U	NL	NL
Freon 114	76-14-2	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	NL	NL
Freon 12	75-71-8	3.0		4.0		-	U	-	U	-	U	3.0		-	U	-	U	10.5	16.5
Freon TF	NA	-	-	-	-	-	-	-	-	-	-	-	-	140		-	U	NL	NL
Heptane	142-82-5	-	U	1.1	J	-	U	-	U	200		0.98		-	U	-	U	NL	NL
Hexachloro-1,3-butadiene	87-68-3	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<2.5	<6.8
Hexane	110-54-3	-	U	2.4	J	-	U	-	U	240		2.5		1.2		-	U	NL	NL
m&p-Xylene	179601-23-1	-	U	4.3	J	-	U	-	U	290		4.8		-	U	-	U	12.2	22.2
Methylene chloride	75-09-2	-	U	-	U	-	U		U	-	U	-	U	-	U	-	U	5	10
o-Xylene	95-47-6	-	U	1.4	J	-	U	-	U	91		1.7		-	U	-	U	4.4	7.9
Styrene	100-42-5	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<2.3	1.9
Tetrachloroethylene	127-18-4	-	U	-	U	-	U	2.9		670		-	U	220		-	U	5.9	15.9
Toluene	108-88-3	1.1	J	11	J	0.74		0.77		120		9.8		-	U	0.8		25.9	43
trans-1,2-Dichloroethene	156-60-5	-	U	-	U	-	U	-	U	12		-	U	2.3		-	U	NL	NL
trans-1,3-Dichloropropene	10061-02-6	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.2	<1.3
Trichloroethene	79-01-6	-	U	1.5	J	-	U	-	U	640		1.5		150		-	U	1.2	4.2
Vinyl Bromide	593-60-02	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	NL	NL
Vinyl chloride	75-01-4	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U	<1.0	<1.9

### Notes:

All units in micrograms per cubic meter (µg/m³)

- 1 Typical background indoor air values for commercial office buildings, conducted by the US EPA from 1994 to 1996 (Building Assessment and Survey Evaluation (BASE) Database).
  2 Sample AS-DUPLICATE is a duplicate sample of AS-1 and AS-R-DUPLICATE is a duplicate sample of AS-1R.

  Bold Compound detected in a concentration greater than the method reporting limits.

**Exceeds BASE Database Indoor Air Values 75th Percentile** Exceeds BASE Database Indoor Air Values 90th Percentile

NL - Not listed - data not available for background concentrations for these compounds.

- NA Not available
- U The compound was analyzed for, but was not detected above the method reporting limit.
- J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

# Table 2 Air TO-15 Results Former Scott Aviation Facility Area 1 BCP Site

Type of Sample	AMBIEN	Т	AMBIEN	IT	AMBIEN	Τ	AMBIEN	Т	SUBSLA	В	SUBSLA	В	INDOOR	}	INDOOF	₹
Sample ID	AS-1		AS-DUI	P	AS-1R		AS-R-DU	P	SS-2-SUBS	LAB	SS-2R-SUBS	SLAB	SS-2-INDO	OR	SS-2R-INDO	OOR
Laboratory ID	RTF0696-	01	RTF0696-	-06	200-26139	-3	200-26139	-4	RTF0696-	04	200-26139	9-1	RTF0696-	05	200-26139	9-2
Sampling Date	6/2/2010	0	6/2/201	0	12/24/201	4	12/24/201	4	6/2/2010	)	12/24/201	14	6/2/2010	)	12/24/201	14
Compound (µg/m³)																
1,1,1-Trichloroethane	-	U	3.4	J	-	C	-	U	430		43		2.5		-	U
cis-1,2-Dichloroethene	-	U	1.5	J	-	U	-	U	390		85		1.6		-	U
Vinyl chloride	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U
1,1-Dichloroethene	-	U	0.83	J	-	U	-	U	67		2		-	U	-	U
Carbon tetrachloride	-	U	-	U	-	U	-	U	-	U	-	U	-	U	-	U
Tetrachloroethylene	-	U	-	U	-	U	2.9		670		220		-	U	-	U
Trichloroethene	-	Ū	1.5	J	-	U	-	U	640		150		1.5		-	U

### Notes:

All units in micrograms per cubic meter (µg/m³)

Sample AS-DUPLICATE is a duplicate sample of AS-1 and AS-R-DUPLICATE is a duplicate of AS-1R.

- U The material was analyzed for but not detected at or above the reporting limit.
- J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

**Bold** - Compound detected in a concentration greater than the method reporting limit.

Take reasonable and practical actions to identify source(s) and reduce exposures

Monitoring required based on NYSDOH Guidance (2006)

Mitigation required based on NYSDOH Guidance (2006)

# **ATTACHMENT 1**

# **Photograph Log**

# REMEDIAL INVESTIGATION PHOTOGRAPH LOG

Client Name: Tyco International

**Project No.:** 60155991

Site Location: Former Scott Aviation Facility

NYSDEC Project No.: C915233

Photo No.

**Date:** 4/3/14

### **Direction Photo Taken:**

North

### **Description:**

View of boiler room. Note boiler room (grey metal siding) is a separate building with its own foundation built next to the tan metal former Reliability Test room.



Photo No.

**Date:** 4/3/14

### **Direction Photo Taken:**

East

### **Description:**

View of boiler room.



**Date:** 12/23/14

Direction Photo Taken:

North

Description:

View of boiler room.



Photo No.

to No. Date: 12/23/14

Direction Photo Taken:

Southeast

Description:

View of boiler room.



**Date:** 12/23/14

Direction Photo Taken:

Northeast

Description:

View of boiler room.

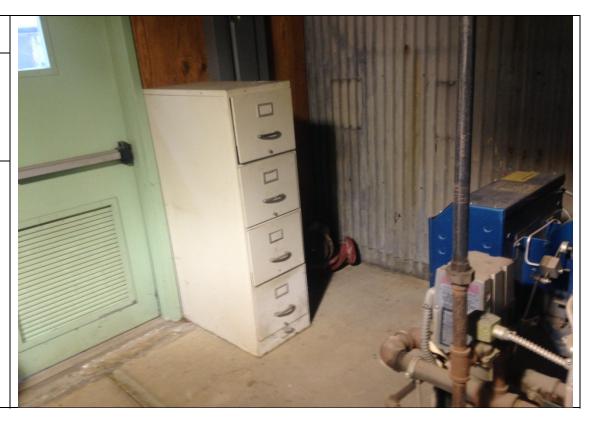


Photo No.

6

**Date:** 12/23/14

Direction Photo Taken:

West

Description:

View of thermometer displaying average temperature inside the boiler room.

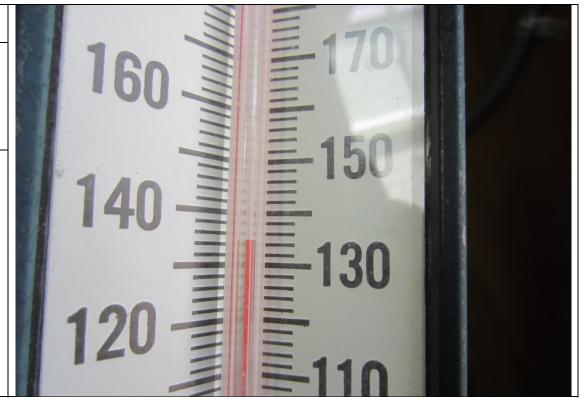


Photo No. Date: 11/4/14

Direction Photo Taken:

East

Description:

View of floor perforation (drain) prior to sealing.



Photo No. Date: 12/23/14

Direction Photo Taken:

South

Description:

View of floor perforation (drain) after sealing.



9 11/4/14

Direction Photo Taken:

West

# Description:

Example of floor crack and construction joints.



Photo No.

**Date:** 11/4/14

Direction Photo Taken:

North

## Description:

Example of saw cut.



Date: 12/23/14

**Direction Photo** Taken:

North

# Description:

View of sealed floor cracks and saw cuts. Note the floor cracks/cuts were sealed on 11/4/14.



Photo No.

Date: 12 12/23/14

**Direction Photo** Taken:

South

# **Description:**

View of sealed floor cracks and saw cuts. Note the floor cracks/cuts were sealed on 11/4/14.



**Date:** 11/4/14

Direction Photo Taken:

East

### Description:

View of floor perforation (drain) prior to sealing.



Photo No.

**Date:** 12/23/14

Direction Photo Taken:

East

## Description:

View of floor perforation (drain) sealed with modelling clay on 12/24/15.



**Date:** 11/4/14

Direction Photo Taken:

East

### Description:

View of floor perforation (drain) prior to sealing.



Photo No.

**Date:** 12/23/14

Direction Photo Taken:

West

## Description:

View of floor perforation (drain) sealed with modelling clay on 12/24/15.



**Date:** 12/23/14

Direction Photo Taken:

East

# Description:

View of sub-slab vapor implant seal testing.



Photo No.

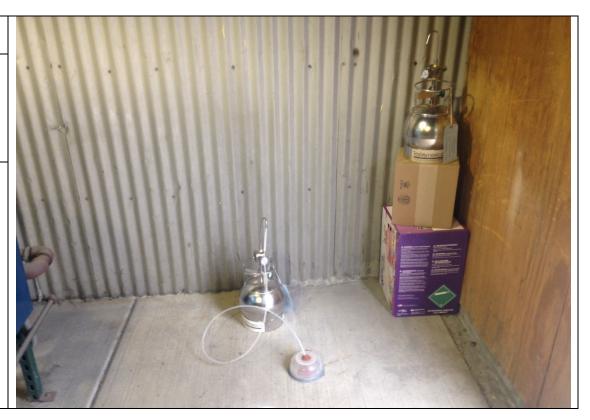
**Date:** 12/23/14

Direction Photo Taken:

East

# Description:

View of sub-slab and indoor air Summa canisters.



Date: 12/23/14

## Direction Photo Taken:

West

# Description:

View of ambient air Summa canisters (duplicate sample being collected at this location). Note completed soil IRM restoration on west side of perimeter fence.



# **ATTACHMENT 2**

# NYSDOH Indoor Air Quality Questionnaire and Building Inventory

Preparer's Name:

Residential

Industrial

School

Church

Dino Zack

### NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Sampling Date/Time: 12-23-14/12:40hrs to 12-24-14/12:40hrs

Preparer's Affiliation:	AECOM Technical Services, Inc.	Phone No: 716-836-4506	
as a result of patching		oor air quality of boiler room since 2010 sampling eventors (i.e., floor drains into sub-slab). This questionnaire in tilding) was sampled during this event.	
1. OCCUPANT:			
Interviewed: YN			
Last Name: Davide	First Name: Jenn	ifer	
Address: 225 Erie Stre	eet, Lancaster, NY		
County: Erie			
Home Phone: NA	Office Phone: (716)	686-1686	
Number of Occupants/ (approximately 30 wor	-	ly 370 people work at this three-plant facility	
Age of Occupants: Of	working age.		
2. OWNER OR LAN	<b>DLORD:</b> (Check if same as occupant	(YES))	
Interviewed: Y/N			
Last Name:	First Name:		
Address:			
County:			
Home Phone:	Office Phone:		
3. BUILDING CHAI	RACTERISTICS		
<b>Type of Building:</b> (Ci	ircle appropriate response)		

Commercial/Multi-use

Other:

### **If the property is residential, type?** (Circle appropriate response)

Ranch 2-Family 3-Family
Raised Ranch Split Level Colonial
Cape Cod Contemporary Mobile Home

Duplex Apartment House Townhouses/Condos Modular Log Home Other Non-residential

### If multiple units, how many? NA

### If the property is commercial, type? Yes

Business Type(s): The overall facility was used as a manufacturing, development, testing, and distribution facility for aircraft and military supplied-air systems.

Does it include residences (i.e., multi-use)? Y (N)

If yes, how many? NA

### Other characteristics:

Number of floors: 2 Building age: 1930's, but has many additions over the years

Is the building insulated? (Y)N How air tight? Tight / Average / Not Tight

### 4. AIRFLOW

### Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors:

There was only a ground floor in the sampling area.

#### Airflow near source:

There is no isolated, specific source area. The smoke generally gently floated upwards in sampling area.

### Outdoor air infiltration:

\

There was no detectable air infiltration into the boiler room as the doors and associated louvers were closed (note this is a non-insulated building).

Infiltration into air ducts: No air ducts were observed.

### 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

-There was no basement in the sampling areas.

a. Above grade construction: wood frame brick (other: Corrugated Metal concrete stone b. Basement type: full other: No basement is present crawlspace slab c. Basement floor: dirt other) No basement is present concrete stone d. Basement floor: covered with: NA uncovered covered e. Concrete floor: unsealed sealed sealed with: f. Foundation walls: other: NA poured block stone g. Foundation walls: unsealed sealed sealed with: NA

**h. The basement is:** wet damp dry moldy: NA

i. The basement is: finished unfinished partly finished: NA

j. Sump present? Y (N)

**k. Water in sump?** Y / N (not applicable)

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)

Floor cracks were sealed and floor penetrations (drains) were covered.

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation Heat pump Hot water baseboard

Space Heaters Stream radiation Radiant floor

Electric baseboard Wood Stove Outdoor wood boiler (Other: )only heat source is boiler

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene Electric Propane Solar

Wood Coal

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor Main Floor Other: stand-alone building

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

Y(N)

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

NA

### 7. OCCUPANCY

**Is basement /lowest level occupied?** Full-time Occasionally Seldom Almost Never

### <u>Level</u> <u>General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)</u>

Basement: Offices - The area where offices are located in the basement is far from where the samples were taken.

1<sup>st</sup> Floor: Offices, production facilities and storage

2<sup>nd</sup> Floor: Offices

3<sup>rd</sup> Floor: NA

4<sup>th</sup> Floor: NA

### 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

b. Does the garage have a separate heating unit? Y / N / NA

c. Are petroleum-powered machines or vehicles

stored in the garage? (e.g., lawnmower, atv, car)

d. Has the building ever had a fire?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

**f. Is there a workshop or hobby/craft area?** Y (N) Where & Type?

**g. Is there smoking in the building?** Y(N) How frequently?

h. Have cleaning products been used recently? Y(N) When & Type?

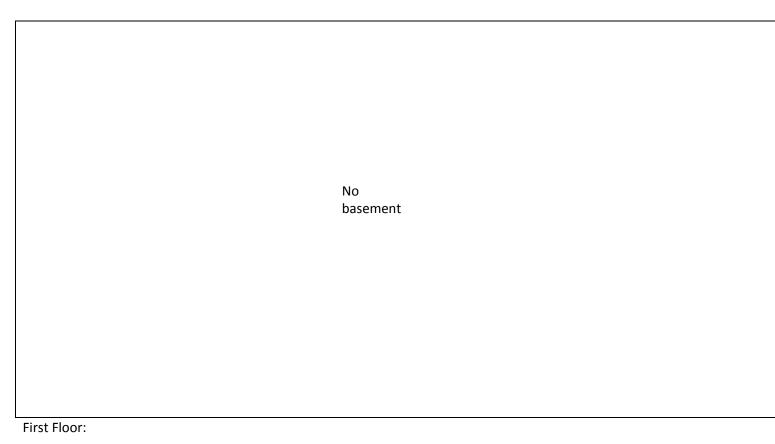
i. Have cosmetic products been used recently? Y/(N) When & Type?

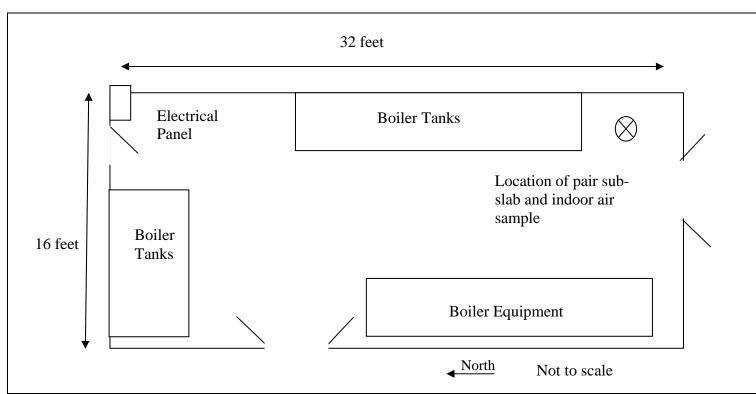
j. Has painting/staining been done in the last 6 months?	Y(N)Where & When?
k. Is there new carpet, drapes or other textiles?	Y N Where & When?
l. Have air fresheners been used recently?	Y N When & Type?
m. Is there a kitchen exhaust fan?	Y NIf yes, where vented?
n. Is there a bathroom exhaust fan?	Y N If yes, where vented?
o. Is there a clothes dryer?	Y N If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y (N) When & Type?
Are there odors in the building?	Y/N
Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or mechanic, pesticide application, cosmetologist)	Y (N) auto body shop, painting, fuel oil delivery, boiler
If yes, what types of solvents are used?	
If yes, are their clothes washed at work?	YN
Do any of the building occupants regularly use or work at	a dry-cleaning service? (Circle appropriate response)
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	No Unknown
Is there a radon mitigation system for the building/structure.  Is the system active or passive?  Active / Passi	
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Driven Sewage Disposal: Public Sewer Septic Tank Leach F	$\epsilon$
10. RELOCATION INFORMATION (for oil spill resident	tial emergency)
a. Provide reasons why relocation is recommended: R	elocation is not recommended
<b>b. Residents choose to:</b> remain in home relocate	to friends/family relocate to hotel/motel -NA
c. Responsibility for costs associated with reimbursem	ent explained? Y/N - NA
d. Relocation package provided and explained to resid	lents? Y/N -NA

### 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoo air pollution sources, and PID meter readings. If the building does not have a basement, please note.

### **Basement:**





1	12	OΙ	ITI	S	OR.	ы	$\Omega$ T	i

Draw a sketch of the area surrounding the building being samples. If applicable, provide information on spill locations, potential air contamination sources (industrial, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

septic system, if applicable, and a qual	direction, and speed during sampling, the locations of the well and ifying statement to help locate the site on a topographic map.
	Refer to attached figure



Section 12 – Outdoor Plot

### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 3000 ppb Rea

No products containing VOCs were observed in the locker room area.

List specific products found in the residence that have the potential to affect indoor air quality

List speci	List specific products found in the residence that have the potential to affect indoor air quality								
Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N			
			Undamaged	Caustic Potash (CAS 1310- 58-33)					
Boiler			plastic	Sodium Nitrite (CAS 7632-					
Room	Formula 1231	55 gallon	drum	00-0)	ND	Υ			

<sup>\*</sup>Describe the conditions of the product containers as **Unopened (UO)**, or **Deteriorated (D)** 

<sup>\*\*</sup>Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredients labels must be legible.

# ATTACHMENT 3

**Vapor Sampling Log Sheet** 

## Soil Vapor Sampling Log Sheet Indoor Air Sample ID: SS-2R-Indoor Sub-slab Vapor Sample ID: SS-2R-Subslab Ambient Air Sample ID: AS-1R

**Client:** Tyco International

Project Name: Former Scott Aviation Facility Area 1 BCP

**Location:** Lancaster, New York **Date:** 12-23-14 to 12-24-14 **Sampler:** Dino Zack, P.G.

Indoor Air Sample ID: SS-2R- Indoor

**Location**: Boiler Room

6-Liter Summa Canister Number: 3421

Flow Controller Number: 4996

Starting Time/Date: 12:40/12-23-14 Starting Pressure: -30.2 Finish Time/Date: 12:40/12-24-14 Final Pressure: -9.0

Chemical Inventory: Refer to Section 13 of the attached NYSDOH Indoor Air Quality

Questionnaire and Building Inventory.

**Comments**: PID readings near sample were 0-1 ppm. Floor perforations (cracks and drains) were sealed prior to sampling. Doors and door louvers were closed and a sign was placed on the door to indicate sampling was in progress.

Sub-slab Sample ID: SS-2R-Subslab

6-Liter Summa Canister Number: 4548

Flow Controller Number: 3986

Core Diameter: ½ inch Floor Thickness: 6.5 inches

Starting Time/Date: 12:40/12-23-14 Starting Pressure: -30.1 Finish Time/Date: 12:40/12-24-14 Final Pressure: -6.0

Comments: PID measurement in core through the floor was 0-1 ppm before sampling. Purged 3

tubing-volumes prior to sampling.

Ambient Sample ID: AS-1R

6-Liter Summa Canister Number: 3632

Flow Controller Number: 4578

Starting Time/Date: 12:40/12-23-14 Starting Pressure: -29.7 Finish Time/Date: 12:40/12-24-14 Final Pressure: -4.0

Comments: PID readings near sample were 0-1 ppm. Duplicate sample AS-Duplicate was

collected at this location.

**General Weather Conditions**: Wind from the south to south southeast at an average of 2.7 mph, gusting up to 18 mph. Average temperature was 48 degrees F. Barometric pressure varied between 30.and 29.8 in of Hg. There was no precipitation during sampling.

# Weather History for Lancaster, NY

# Summary

# 23-Dec-14

	High	Low	Average
Temperature	<b>52.8</b> °F	<b>37.9</b> °F	<b>45.3</b> °F
Dew Point	<b>46</b> °F	<b>32.2</b> °F	41.3 °F
Humidity	90%	73%	81%
Precipitation	<b>0</b> in		
	High	Low	Average
Wind Speed	5 mph		<b>1.2</b> mph
Wind Gust	<b>18</b> mph		
Wind Direction			SSE
Pressure	<b>30.06</b> in	<b>29.87</b> in	

# Summary

# 24-Dec-14

	High	Low	Average
Temperature	<b>60.9</b> °F	<b>44.2</b> °F	<b>52.6</b> °F
Dew Point	<b>53</b> °F	<b>41.5</b> °F	<b>49.4</b> °F
Humidity	92%	74%	83%
Precipitation	<b>0.28</b> in		
	High	Low	Average
Wind Speed	<b>15</b> mph		<b>4.3</b> mph
Wind Gust	<b>31</b> mph		
Wind Direction			South
Pressure	<b>29.87</b> in	<b>29.24</b> in	

http://www.wunderground.com/personal-weather-station/dashboard?ID=KNYLANCA3#history/s20141224/e2





# **ATTACHMENT 4**

Analytical Laboratory Summary Sheets (Full data reports available upon request)



# **ANALYTICAL REPORT**

Job Number: 200-26139-1

Job Description: Scott Aviation site

For:
AECOM, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226

Attention: Mr. Dino Zack

Joseph V. Gireomagger

Approved for release.
Joe V Giacomazza
Project Management Assistant II

Designee for
Brian J Fischer, Manager of Project Management
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
01/07/2015

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1



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### **SAMPLE SUMMARY**

Client: AECOM, Inc. Job Number: 200-26139-1

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
200-26139-1	SS-2R-SUBSLAB	Air	12/24/2014 1240	12/31/2014 0845
200-26139-2	SS-2R-INDOOR	Air	12/24/2014 1240	12/31/2014 0845
200-26139-3	AS-1R	Air	12/24/2014 1240	12/31/2014 0845
200-26139-4FD	AS-DUPLICATE	Air	12/24/2014 1240	12/31/2014 0845

### **EXECUTIVE SUMMARY - Detections**

Client: AECOM, Inc. Job Number: 200-26139-1

Lab Sample ID Client Samp Analyte	le ID Result	Qualifier	Reporting Limit	Units	Method
200-26139-1 SS-2R-SU	IBSLAB				
1,1,1-Trichloroethane	7.9		0.20	ppb v/v	TO-15
1,1,1-Trichloroethane	43		1.1	ug/m3	TO-15
1,1-Dichloroethane	2.4		0.20	ppb v/v	TO-15
1,1-Dichloroethane	9.6		0.81	ug/m3	TO-15
1,1-Dichloroethene	0.50		0.20	ppb v/v	TO-15
1,1-Dichloroethene	2.0		0.79	ug/m3	TO-15
1,2-Dichloroethene, Total	22		0.20	ppb v/v	TO-15
1,2-Dichloroethene, Total	86		0.79	ug/m3	TO-15
cis-1,2-Dichloroethene	21		0.20	ppb v/v	TO-15
cis-1,2-Dichloroethene	85		0.79	ug/m3	TO-15
Freon TF	18		0.20	ppb v/v	TO-15
Freon TF	140		1.5	ug/m3	TO-15
n-Hexane	0.33		0.20	ppb v/v	TO-15
n-Hexane	1.2		0.70	ug/m3	TO-15
Tetrachloroethene	33		0.20	ppb v/v	TO-15
Tetrachloroethene	220		1.4	ug/m3	TO-15
trans-1,2-Dichloroethene	0.58		0.20	ppb v/v	TO-15
trans-1,2-Dichloroethene	2.3		0.79	ug/m3	TO-15
Trichloroethene	27		0.20	ppb v/v	TO-15
Trichloroethene	150		1.1	ug/m3	TO-15
Trichlorofluoromethane	0.90		0.20	ppb v/v	TO-15
Trichlorofluoromethane	5.1		1.1	ug/m3	TO-15
The illorondorometrane	5.1		1.1	ug/III3	10-13
200-26139-2 SS-2R-INI	DOOR				
Benzene	0.26		0.20	ppb v/v	TO-15
Benzene	0.82		0.64	ug/m3	TO-15
Chloromethane	0.50		0.50	ppb v/v	TO-15
Chloromethane	1.0		1.0	ug/m3	TO-15
Toluene	0.21		0.20	ppb v/v	TO-15
Toluene	0.80		0.75	ug/m3	TO-15
Trichlorofluoromethane	0.20		0.20	ppb v/v	TO-15
Trichlorofluoromethane	1.1		1.1	ug/m3	TO-15
200-26139-3 AS-1R					
Toluene	0.20		0.20	ppb v/v	TO-15
Toluene	0.74		0.75	ug/m3	TO-15
Trichlorofluoromethane	0.21		0.20	ppb v/v	TO-15
Trichlorofluoromethane	1.2		1.1	ug/m3	TO-15

### **EXECUTIVE SUMMARY - Detections**

Client: AECOM, Inc. Job Number: 200-26139-1

Lab Sample ID Client Sample ID		Reporting		
Analyte	Result Qualifi	er Limit	Units	Method
200-26139-4FD AS-DUPLICATE				_
Chloromethane	0.54	0.50	ppb v/v	TO-15
Chloromethane	1.1	1.0	ug/m3	TO-15
Methyl Ethyl Ketone	0.58	0.50	ppb v/v	TO-15
Methyl Ethyl Ketone	1.7	1.5	ug/m3	TO-15
Tetrachloroethene	0.43	0.20	ppb v/v	TO-15
Tetrachloroethene	2.9	1.4	ug/m3	TO-15
Toluene	0.20	0.20	ppb v/v	TO-15
Toluene	0.77	0.75	ug/m3	TO-15
Trichlorofluoromethane	0.22	0.20	ppb v/v	TO-15
Trichlorofluoromethane	1.2	1.1	ug/m3	TO-15

### **METHOD SUMMARY**

Client: AECOM, Inc. Job Number: 200-26139-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

### Lab References:

TAL BUR = TestAmerica Burlington

### **Method References:**

EPA = US Environmental Protection Agency

Client Sample ID: SS-2R-SUBSLAB

Lab Sample ID: 200-26139-1 Date Sampled: 12/24/2014 1240

Client Matrix: Date Received: 12/31/2014 0845 Air

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

Analysis Method: TO-15 Analysis Batch: 200-83006 Instrument ID: CHC.i Prep Method: Summa Canister Prep Batch: N/A Lab File ID: 11481\_08.D Dilution: Initial Weight/Volume: 200 mL

1.0 01/06/2015 1419 Final Weight/Volume: 200 mL

Analysis Date: Prep Date: 01/06/2015 1419 Injection Volume: 200 mL

1,1,1-Trichloroethane         7.9         0.20         0.20           1,1,2,2-Terschloroethane         ND         0.20         0.20           1,1,2-Trichloroethane         ND         0.20         0.20           1,1-Dichloroethane         2,4         0.20         0.20           1,1-Dichloroethene         0,50         0.20         0.20           1,2-Frinchlyberzene         ND         0.50         0.50           1,2-Dichloroethane         ND         0.20         0.20           1,2-Dichloroethane         ND         0.20         0.20           1,2-Dichloroethene, Total         22         0.20         0.20           1,2-Dichloroethane         ND         0.20         0.20           1,2-Dichloroethane         ND         0.20         0.20           1,2-Dichloroethane         ND         0.20         0.20           1,3-Dichloroethane         ND         0.20         0.20           1,3-Dichloroethane         ND         0.20	Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,2-Trichloroethane         2.4         0.20         0.20           1,1-Dichloroethene         0.50         0.20         0.20           1,1-Dichloroethene         0.50         0.20         0.20           1,2,4-Trichlorobenzene         ND         0.50         0.50           1,2-Dichloroethane         ND         0.20         0.20           1,3-Bridine Plane         ND         0.20         0.20           1,3-Bridine Plane         ND         0.20         0.20	1,1,1-Trichloroethane	7.9		0.20	0.20
1.1-Dichloroethane         2.4         0.20         0.20           1.1-Dichloroethene         0.50         0.50         0.50           1.2,4-Trichlorobenzene         ND         0.50         0.50           1.2,4-Trichlorobenzene         ND         0.20         0.20           1.2-Dichloroethane         ND         0.20         0.20           1.2-Dichloroethene, Total         22         0.20         0.20           1.2-Dichloroethene, Total         22         0.20         0.20           1.2-Dichloroethane         ND         0.20         0.20           1.2-Dichlorotethane         ND         0.20         0.20           1.2-Dichlorotethane         ND         0.20         0.20           1.2-Dichlorotetrafluoroethane         ND         0.20         0.20           1.3-Trimethylbenzene         ND         0.20         0.20           1.3-Butadiene         ND         0.20         0.20           1.3-Trimethylbenzene         ND         0.20         0.20           1.3-Unidorobenzene         ND         0.20         0.20           1.4-Dichlorobenzene         ND         0.20         0.20           1.4-Dichlorobenzene         ND         0.20         0.	1,1,2,2-Tetrachloroethane	ND		0.20	0.20
1.1-Dichloroethene         0.50         0.20         0.20           1.2,4-Trinchlorobenzene         ND         0.50         0.50           1.2,4-Trinchlybenzene         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichloroethane         ND         0.20         0.20           1.2-Dichloropethane         ND         0.20         0.20           1.2-Dichloropethane, Total         22         0.20         0.20           1.2-Dichloropethane         ND         0.20         0.20           1.2-Dichloropethane         ND         0.20         0.20           1.2-Dichloropepane         ND         0.20         0.20           1.2-Dichloropethane         ND         0.20         0.20           1.3-Dichlorobethane         ND         0.20         0.20           1.3-Dichlorobethane         ND         0.20         0.20           1.3-Dichlorobethane         ND         0.20         0.20           1.3-Dichlorobethane         ND         0.20         0.20           1.4-Dichlorobethane         ND         0.20         0.20           1.4-Dichlorobethane         ND         0.20         0.20	1,1,2-Trichloroethane	ND		0.20	0.20
1,2,4-Trindhrobenzene         ND         0.50         0.50           1,2,4-Trimethylbenzene         ND         0.20         0.20           1,2-Dichlorobenzene         ND         0.20         0.20           1,2-Dichlorobenzene         ND         0.20         0.20           1,2-Dichlorobethane         ND         0.20         0.20           1,3-Trimethylbenzene         ND         0.20         0.20           1,3-Butadiene         ND         0.20         0.20           1,3-Dichlorobenzene         ND         0.20         0.20           1,4-Dichlorobenzene         ND         0.20         0.20           1,4-Dichlorobenzene         ND         0.20         0.20           1,4-Dichlorobenzene         ND         0.20         0.20           1,4-Dichlorobenzene         ND         0.20         0.20	1,1-Dichloroethane	2.4		0.20	0.20
1.2.4-Trimethylbenzene         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichlorobethene, Total         22         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.3-Bichlorobenzene         ND         0.20         0.20           1.3-Bichlorobenzene         ND         0.20         0.20           1.4-Dichlorobenzene         ND         0.20         0.20           2.2-4-Trimethylpentane         ND         0.20         0.20	1,1-Dichloroethene	0.50		0.20	0.20
1.2-Dichloromethane         ND         0.20         0.20           1.2-Dichlorobenzene         ND         0.20         0.20           1.2-Dichloroethane         ND         0.20         0.20           1.2-Dichloroethene, Total         22         0.20         0.20           1.2-Dichlorotetrafluoroethane         ND         0.20         0.20           1.3-Frimethylbenzene         ND         0.20         0.20           1.3-Butadiene         ND         0.20         0.20           1.3-Bitholoene         ND         0.20         0.20           1.3-Dichlorobenzene         ND         0.20         0.20           1.4-Dickinge         ND         0.20         0.20           1.4-Dickingene         ND         0.20         0.20           1.4-Dickingene         ND         0.20         0.20           1.4-Dickingene         ND         0.20         0.20           2.2-Liborotoluene         ND         0.20         0.20           2.2-Liborotoluene         ND         0.20         0.20           3-Chioropropene         ND         0.20         0.20           4-Ethyltoluene         ND         0.50         0.50           4-Ethyltoluen	1,2,4-Trichlorobenzene	ND		0.50	0.50
1.2-Dichlorborebenee       ND       0.20       0.20         1.2-Dichloroethane       ND       0.20       0.20         1.2-Dichloroethenee, Total       22       0.20       0.20         1.2-Dichlorotetrafluroveethane       ND       0.20       0.20         1.3-Dichlorotetrafluroveethane       ND       0.20       0.20         1.3-Bitadiene       ND       0.20       0.20         1.3-Dichlorobenzene       ND       0.20       0.20         1.4-Dicklorotetheree       ND       0.20       0.20         2.2-A-Trimethylpentane       ND       0.20       0.20         2.2-A-Trimethylpentane       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20	1,2,4-Trimethylbenzene	ND		0.20	0.20
1,2-Dichloroethanen       ND       0,20       0,20         1,2-Dichloroptroprame       ND       0,20       0,20         1,2-Dichloroptroprame       ND       0,20       0,20         1,2-Dichloroptramen       ND       0,20       0,20         1,3-Errimethylbenzene       ND       0,20       0,20         1,3-Butadiene       ND       0,20       0,20         1,3-Dichlorobenzene       ND       0,20       0,20         1,4-Dichlorobenzene       ND       0,20       0,20         2,2-4-Trimethylpentane       ND       0,20       0,20         2,2-1-Trimethylpentane       ND       0,20       0,20         2-Chlorostenene       ND       0,20       0,20         3-Chloroptoppene       ND       0,20       0,20         4-Ethyltoluene       ND       0,20       0,20         Bernz	1,2-Dibromoethane	ND		0.20	0.20
1,2-Dichloroethene, Total       22       0.20       0.20         1,2-Dichloropropane       ND       0.20       0.20         1,2-Dichlorotetraflurorethane       ND       0.20       0.20         1,3-Dichlorobetraflurorethane       ND       0.20       0.20         1,3-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichare       ND       0.20       0.20         2,2-4-Trimethylpentane       ND       0.20       0.20         2,2-4-Trimethylpentane       ND       0.20       0.20         2-Chloropropene       ND       0.20       0.20         3-Chloropropene       ND       0.20       0.20         4-Ethylfoluene       ND       0.20       0.20         Acetone       ND       0.20       0.20         Bernacene       ND       0.20       0.20         Bromodithioromethane       ND       0.20       0.20         Bromodithioromethane       ND       0.20       0.20         Bromodit	1,2-Dichlorobenzene	ND		0.20	0.20
1,2-Dichloroethene, Total       22       0.20       0.20         1,2-Dichloropropane       ND       0.20       0.20         1,2-Dichlorotetraflurorethane       ND       0.20       0.20         1,3-Dichlorobetraflurorethane       ND       0.20       0.20         1,3-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dichare       ND       0.20       0.20         2,2-4-Trimethylpentane       ND       0.20       0.20         2,2-4-Trimethylpentane       ND       0.20       0.20         2-Chloropropene       ND       0.20       0.20         3-Chloropropene       ND       0.20       0.20         4-Ethylfoluene       ND       0.20       0.20         Acetone       ND       0.20       0.20         Bernacene       ND       0.20       0.20         Bromodithioromethane       ND       0.20       0.20         Bromodithioromethane       ND       0.20       0.20         Bromodit	1,2-Dichloroethane	ND		0.20	0.20
1,2-Dichloropropane         ND         0.20         0.20           1,2-Dichlorotetrafluoroethane         ND         0.20         0.20           1,3-5-Trimethylbenzene         ND         0.20         0.20           1,3-Bubtadiene         ND         0.20         0.20           1,3-Dichlorobenzene         ND         0.20         0.20           1,4-Dichlorobenzene         ND         0.20         0.20           2,24-Trimethylpentane         ND         0.20         0.20           2-Chlorobluene         ND         0.20         0.20           2-Chlorobluene         ND         0.50         0.50           4-Ethylstoluene         ND         0.50         0.50           4-Ethylstoluene         ND         0.20         0.20           Berzene         ND         0.20         0.20           Bro	1,2-Dichloroethene, Total	22			
1,2-Dichlorotetrafluoroethane       ND       0.20       0.20         1,3,5-Trimethylbenzene       ND       0.20       0.20         1,3-Butadiene       ND       0.20       0.20         1,3-Butadiene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       0.20       0.20         1,4-Dicharoe       ND       5.0       5.0         2,2,4-Trimethylpentane       ND       0.20       0.20         2,2-Chlorotoluene       ND       0.50       0.50         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.50       0.50         Acetone       ND       0.20       0.20         Benzene       ND       0.20       0.20         Bromoethene(Vinyl Bromide)       ND       0.20       0.20         Bromoethene(Vinyl Bromide)       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Carbon disulfide       ND       0.20       0.20         Carbon disulfide       ND       0.50       0.50         Carbon tetrachloride       ND       0.50       0.50         Chloroethane       ND					
1,3,5-Trimethylbenzene       ND       0,20       0,20         1,3-Bukadeine       ND       0,20       0,20         1,3-Dichlorobenzene       ND       0,20       0,20         1,4-Dicknere       ND       0,20       0,20         1,4-Dicknere       ND       5,0       5,0         2,2,4-Trimethylpentane       ND       0,20       0,20         2-Chlorotoluene       ND       0,20       0,20         3-Chloropropene       ND       0,50       0,50         4-Ethyltoluene       ND       0,50       0,50         4-Ethyltoluene       ND       0,20       0,20         Acetone       ND       0,20       0,20         Bernzene       ND       0,20       0,20         Bromodtholromethane       ND       0,20       0,20         Bromodthene(Vinyl Bromide)       ND       0,20       0,20         Bromomethane       ND       0,20       0,20         Bromomethane       ND       0,20       0,20         Carbon disulfide       ND       0,20       0,20         Carbon tetrachloride       ND       0,50       0,50         Chlorobenzene       ND       0,50 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
1,3-Bitaldeine       ND       0,20       0,20         1,3-Dichlorobenzene       ND       0,20       0,20         1,4-Dichlorobenzene       ND       0,20       0,20         1,4-Dichorabe       ND       0,20       0,20         1,4-Dioxane       ND       0,20       0,20         2,2-f-Trimethylpentane       ND       0,20       0,20         3-Chloropropene       ND       0,20       0,20         3-Chloropropene       ND       0,50       0,50         4-Ethyltoluene       ND       0,20       0,20         8-Ethyltoluene       ND       0,20       0,20         Bromoethane       ND       0,20       0,20         Bromoethene(Vinyl Bronide)       ND       0,50       0,50         Carbon disulfide       ND       0,50					
1,3-Dichlorobenzene       ND       0.20       0.20         1,4-Dichlorobenzene       ND       5.0       5.0         1,4-Dioxane       ND       5.0       5.0         2,2,4-Trimethylpentane       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromodethene(Vinyl Bromide)       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Carbon disulfide       ND       0.50       0.50         Carbon tetrachloride       ND       0.50       0.50         Carbon tetrachloride       ND       0.20       0.20         Chloroethane       ND       0.50       0.50					
1,4-Dichlorobenzene       ND       5.0       2.0         1,4-Dickorane       ND       5.0       5.0         2,2,4-Trimethylpentane       ND       0.20       0.20         2-Chlorotoluene       ND       0.50       0.50         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromoethene (Vinyl Bromide)       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Carbon disulfide       ND       0.20       0.20         Carbon tetrachloride       ND       0.50       0.50         Chlorobenzene       ND       0.50       0.50         Chlorobethane       ND       0.50       0.50         Chlorobethane       ND       0.50       0.50         Chloropropene       ND       0.20       0.20         Cyslohexane       ND       0.20       0.20					
1,4-Dioxane       ND       5.0       5.0         2,2,4-Trimethylpentane       ND       0.20       0.20         2-Chlorotoluene       ND       0.20       0.20         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromoethene(Vinyl Bromide)       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Carbon disulfide       ND       0.50       0.50         Carbon detrachloride       ND       0.50       0.50         Chloroethane       ND       0.20       0.20         Chloroethane       ND       0.50       0.50         Chloroethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20	•				
2,2,4-Trimethylpentane       ND       0.20       0.20         2-Chlorotoluene       ND       0.50       0.50         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromodithene(Vinyl Bromide)       ND       0.20       0.20         Bromoform       ND       0.50       0.50         Carbon disulfide       ND       0.50       0.50         Carbon disulfide       ND       0.50       0.50         Carbon tetrachloride       ND       0.20       0.20         Chlorobenzene       ND       0.50       0.50         Chlorobenzene       ND       0.50       0.50         Chlorotethane       ND       0.50       0.50 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
2-Chlorotoluene       ND       0.20       0.20         3-Chloropropene       ND       0.50       0.50         4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromodethene(Vinyl Bromide)       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Carbon disulfide       ND       0.50       0.50         Carbon disulfide       ND       0.50       0.50         Carbon tetrachloride       ND       0.20       0.20         Chlorobenzene       ND       0.20       0.20         Chloroform       ND       0.50       0.50         Chloroform       ND       0.50       0.50         Chloromethane       ND       0.50       0.50         Cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20      <					
3-Chloropropene         ND         0.50         0.50           4-Ethyltoluene         ND         0.20         0.20           Acetone         ND         5.0         5.0           Benzene         ND         0.20         0.20           Bromodichloromethane         ND         0.20         0.20           Bromoethene(Vinyl Bromide)         ND         0.20         0.20           Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Bromomethane         ND         0.50         0.50           Carbon disulfide         ND         0.50         0.50           Carbon disulfide         ND         0.20         0.20           Carbon disulfide         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroferm         ND         0.20         0.20           Chloroform         ND         0.50         0.50           Chloroferhane         ND         0.50         0.50           Chloroferhane         ND         0.20         0.20           Cis-1,3-Dichloropropene         ND         0.20	• •				
4-Ethyltoluene       ND       0.20       0.20         Acetone       ND       5.0       5.0         Benzene       ND       0.20       0.20         Bromodichloromethane       ND       0.20       0.20         Bromoethene(Viryl Bromide)       ND       0.20       0.20         Bromoform       ND       0.20       0.20         Bromoethane       ND       0.20       0.20         Carbon disulfide       ND       0.50       0.50         Carbon disulfide       ND       0.50       0.50         Carbon disulfide       ND       0.20       0.20         Carbon disulfide       ND       0.20       0.20         Carbon disulfide       ND       0.20       0.20         Chlorobenzene       ND       0.20       0.20         Chlorobenzene       ND       0.50       0.50         Chloroform       ND       0.50       0.50         Chloroformethane       ND       0.50       0.50         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Acetone         ND         5.0         5.0           Benzene         ND         0.20         0.20           Bromodichloromethane         ND         0.20         0.20           Bromoethene(Vinyl Bromide)         ND         0.20         0.20           Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chlorotethane         ND         0.20         0.20           Chloroform         ND         0.50         0.50           Chloromethane         ND         0.50         0.50           Cis-1,2-Dichloroethene         21         0.20         0.20           Cyclohexane         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Freon TF         18         0.20 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Benzene         ND         0.20         0.20           Bromodichloromethane         ND         0.20         0.20           Bromoethene(Vinyl Bromide)         ND         0.20         0.20           Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chlorobenzene         ND         0.50         0.50           Chloroform         ND         0.50         0.50           Chloroform         ND         0.50         0.50           Cis-1,2-Dichloroethane         ND         0.50         0.50           cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Freon TF         18         0.20<	•				
Bromodichloromethane         ND         0.20         0.20           Bromoethene(Vinyl Bromide)         ND         0.20         0.20           Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroethane         ND         0.50         0.50           Chloroform         ND         0.50         0.50           Chloromethane         ND         0.20         0.20           Cis-1,2-Dichloroethene         21         0.20         0.20           Cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND					
Bromoethene(Vinyl Bromide)         ND         0.20         0.20           Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroethane         ND         0.50         0.50           Chloroform         ND         0.50         0.50           Chloromethane         ND         0.50         0.50           cis-1,2-Dichloroethene         21         0.20         0.20           cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.50         0.50           Isopropyl alcohol         ND					
Bromoform         ND         0.20         0.20           Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroethane         ND         0.50         0.50           Chloroform         ND         0.50         0.50           Chloromethane         ND         0.50         0.50           cis-1,2-Dichloroethene         21         0.20         0.20           Cyclohexane         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           Methyl Butyl Ketone (2-Hexanone)         ND <td></td> <td></td> <td></td> <td></td> <td></td>					
Bromomethane         ND         0.20         0.20           Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroethane         ND         0.50         0.50           Chloroform         ND         0.20         0.20           Chloromethane         ND         0.50         0.50           cis-1,2-Dichloroethene         21         0.20         0.20           cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         0.50         5.0           m,p-Xylene         ND         0.50 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·				
Carbon disulfide         ND         0.50         0.50           Carbon tetrachloride         ND         0.20         0.20           Chlorobenzene         ND         0.20         0.20           Chloroethane         ND         0.50         0.50           Chloroform         ND         0.20         0.20           Chloromethane         ND         0.50         0.50           cis-1,2-Dichloroethene         21         0.20         0.20           cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.50         0.50           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Carbon tetrachloride       ND       0.20       0.20         Chlorobenzene       ND       0.20       0.20         Chloroethane       ND       0.50       0.50         Chloroform       ND       0.20       0.20         Chloromethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.50       0.50         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
Chlorobenzene       ND       0.20       0.20         Chloroethane       ND       0.50       0.50         Chloroform       ND       0.20       0.20         Chloromethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.50       0.50         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.20       0.20         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
Chloroethane       ND       0.50       0.50         Chloroform       ND       0.20       0.20         Chloromethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.20       0.20         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         m,p-Xylene       ND       0.50       0.50         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
Chloroform       ND       0.20       0.20         Chloromethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.20       0.20         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         m,p-Xylene       ND       0.50       0.50         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
Chloromethane       ND       0.50       0.50         cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.20       0.20         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         m,p-Xylene       ND       0.50       0.50         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
cis-1,2-Dichloroethene       21       0.20       0.20         cis-1,3-Dichloropropene       ND       0.20       0.20         Cyclohexane       ND       0.20       0.20         Dibromochloromethane       ND       0.20       0.20         Dichlorodifluoromethane       ND       0.50       0.50         Ethylbenzene       ND       0.20       0.20         Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         m,p-Xylene       ND       0.50       0.50         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
cis-1,3-Dichloropropene         ND         0.20         0.20           Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Cyclohexane         ND         0.20         0.20           Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50	•				
Dibromochloromethane         ND         0.20         0.20           Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Dichlorodifluoromethane         ND         0.50         0.50           Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Ethylbenzene         ND         0.20         0.20           Freon TF         18         0.20         0.20           Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Freon TF       18       0.20       0.20         Hexachlorobutadiene       ND       0.20       0.20         Isopropyl alcohol       ND       5.0       5.0         m,p-Xylene       ND       0.50       0.50         Methyl Butyl Ketone (2-Hexanone)       ND       0.50       0.50					
Hexachlorobutadiene         ND         0.20         0.20           Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Isopropyl alcohol         ND         5.0         5.0           m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
m,p-Xylene         ND         0.50         0.50           Methyl Butyl Ketone (2-Hexanone)         ND         0.50         0.50					
Methyl Butyl Ketone (2-Hexanone) ND 0.50 0.50					
Methyl Ethyl Ketone ND 0.50 0.50					
	Methyl Ethyl Ketone	ND		0.50	0.50

Client Sample ID: SS-2R-SUBSLAB

Lab Sample ID: 200-26139-1 Date Sampled: 12/24/2014 1240

		TO-15 Volatile Organic	Compounds i	n Ambient Aiı	r	
Analysis Method:	TO-15	Analysis Batch:	200-83006	Inst	rument ID:	CHC.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab	File ID:	11481_08.0
Dilution:	1.0	-r			al Weight/Volume:	200 mL
Analysis Date:	01/06/2015 1419				al Weight/Volume:	200 mL
Prep Date:	01/06/2015 1419				=	200 mL
тер Баге.	01/00/2015 1419			irije	ction Volume:	200 IIIL
Analyte		Result (p	pb v/v)	Qualifier	RL	RL
methyl isobutyl keto	one	ND			0.50	0.50
Methyl tert-butyl eth	ner	ND			0.20	0.20
Methylene Chloride	)	ND			0.50	0.50
n-Heptane		ND			0.20	0.20
n-Hexane		0.33			0.20	0.20
Styrene		ND			0.20	0.20
tert-Butyl alcohol		ND			5.0	5.0
Tetrachloroethene		33			0.20	0.20
Tetrahydrofuran		ND			5.0	5.0
Toluene		ND			0.20	0.20
trans-1,2-Dichloroe	thene	0.58			0.20	0.20
trans-1,3-Dichlorop		ND			0.20	0.20
Trichloroethene	TOPONO	27			0.20	0.20
Trichlorofluorometh	iane	0.90			0.20	0.20
	iaiic				0.20	
Vinyl chloride		ND ND				0.20
Xylene (total)		ND			0.20	0.20
Xylene, o-		ND			0.20	0.20
Analyte		Result (u	g/m3)	Qualifier	RL	RL
1,1,1-Trichloroetha		43			1.1	1.1
1,1,2,2-Tetrachloro		ND			1.4	1.4
1,1,2-Trichloroetha	ne	ND			1.1	1.1
1,1-Dichloroethane		9.6			0.81	0.81
1,1-Dichloroethene		2.0			0.79	0.79
1,2,4-Trichlorobenz	ene	ND			3.7	3.7
1,2,4-Trimethylben		ND			0.98	0.98
1,2-Dibromoethane		ND			1.5	1.5
1,2-Dichlorobenzer		ND			1.2	1.2
,		ND			0.81	0.81
1.2-Dichloroethane		86			0.79	0.79
*	Lotal					0.73
1,2-Dichloroethene					0.92	
1,2-Dichloroethene 1,2-Dichloropropan	e	ND			0.92 1 4	
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu	e oroethane	ND ND			1.4	1.4
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben	e oroethane	ND ND ND			1.4 0.98	1.4 0.98
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene	e oroethane zene	ND ND ND ND			1.4 0.98 0.44	1.4 0.98 0.44
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer	e oroethane zene	ND ND ND ND ND			1.4 0.98 0.44 1.2	1.4 0.98 0.44 1.2
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer	e oroethane zene	ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2	1.4 0.98 0.44 1.2 1.2
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane	e oroethane zene ne	ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2	1.4 0.98 0.44 1.2 1.2
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen	e oroethane zene ne	ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2 18 0.93	1.4 0.98 0.44 1.2 1.2 18 0.93
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene	e oroethane zene ne	ND ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene	e oroethane zene ne	ND ND ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene	e oroethane zene ne	ND ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0
1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene Acetone	e oroethane zene ne	ND ND ND ND ND ND ND ND			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene	e oroethane zene ne	ND			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0 1.6 0.98	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0 1.6 0.98
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene Acetone	e oroethane zene ne ne	ND N			1.4 0.98 0.44 1.2 1.2 18 0.93 1.0 1.6 0.98	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0 1.6 0.98
1,2-Dichloroethene 1,2-Dichloropropan 1,2-Dichlorotetraflu 1,3,5-Trimethylben: 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpent 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene Acetone Benzene	e oroethane zene ne	ND N			1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98 12 0.64	1.4 0.98 0.44 1.2 1.2 18 0.93 1.0 1.6 0.98 12 0.64

Client: AECOM, Inc. Job Number: 200-26139-1

Client Sample ID: SS-2R-SUBSLAB

Lab Sample ID: 200-26139-1 Date Sampled: 12/24/2014 1240

Client Matrix: Date Received: 12/31/2014 0845 Air

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

Analysis Method: TO-15 Analysis Batch: 200-83006 Instrument ID: CHC.i Prep Method: Summa Canister Prep Batch: N/A Lab File ID: 11481\_08.D Initial Weight/Volume: 200 mL

Dilution: 1.0

Analysis Date: 01/06/2015 1419 Final Weight/Volume: 200 mL Prep Date: 01/06/2015 1419 Injection Volume: 200 mL

Prep Date. 01/00/2013 1419	injection volume. 200 mL			200 IIIL
Analyte	Result (ug/m3)	Qualifier	RL	RL
Bromomethane	ND		0.78	0.78
Carbon disulfide	ND		1.6	1.6
Carbon tetrachloride	ND		1.3	1.3
Chlorobenzene	ND		0.92	0.92
Chloroethane	ND		1.3	1.3
Chloroform	ND		0.98	0.98
Chloromethane	ND		1.0	1.0
cis-1,2-Dichloroethene	85		0.79	0.79
cis-1,3-Dichloropropene	ND		0.91	0.91
Cyclohexane	ND		0.69	0.69
Dibromochloromethane	ND		1.7	1.7
Dichlorodifluoromethane	ND		2.5	2.5
Ethylbenzene	ND		0.87	0.87
Freon TF	140		1.5	1.5
Hexachlorobutadiene	ND		2.1	2.1
Isopropyl alcohol	ND		12	12
m,p-Xylene	ND		2.2	2.2
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	2.0
Methyl Ethyl Ketone	ND		1.5	1.5
methyl isobutyl ketone	ND		2.0	2.0
Methyl tert-butyl ether	ND		0.72	0.72
Methylene Chloride	ND		1.7	1.7
n-Heptane	ND		0.82	0.82
n-Hexane	1.2		0.70	0.70
Styrene	ND		0.85	0.85
tert-Butyl alcohol	ND		15	15
Tetrachloroethene	220		1.4	1.4
Tetrahydrofuran	ND		15	15
Toluene	ND		0.75	0.75
trans-1,2-Dichloroethene	2.3		0.79	0.79
trans-1,3-Dichloropropene	ND		0.91	0.91
Trichloroethene	150		1.1	1.1
Trichlorofluoromethane	5.1		1.1	1.1
Vinyl chloride	ND		0.51	0.51
Xylene (total)	ND		0.87	0.87
Xylene, o-	ND		0.87	0.87

Client Sample ID: SS-2R-INDOOR

Lab Sample ID: 200-26139-2 Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

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

Analysis Method: TO-15 Analysis Batch: 200-83006 Instrument ID: CHC.i

Prep Method: Summa Canister Prep Batch: N/A Lab File ID: 11481\_09.D

Dilution: 1.0 Initial Weight/Volume: 200 mL Analysis Date: 01/06/2015 1506 Final Weight/Volume: 200 mL

Analysis Date: 01/06/2015 1506 Final Weight/Volume: 200 mL

Prep Date: 01/06/2015 1506 Injection Volume: 200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		0.20	0.20
1,1,2,2-Tetrachloroethane	ND		0.20	0.20
1,1,2-Trichloroethane	ND		0.20	0.20
1,1-Dichloroethane	ND		0.20	0.20
1,1-Dichloroethene	ND		0.20	0.20
1,2,4-Trichlorobenzene	ND		0.50	0.50
1,2,4-Trimethylbenzene	ND		0.20	0.20
1,2-Dibromoethane	ND		0.20	0.20
1,2-Dichlorobenzene	ND		0.20	0.20
1,2-Dichloroethane	ND		0.20	0.20
1,2-Dichloroethene, Total	ND		0.20	0.20
1,2-Dichloropropane	ND		0.20	0.20
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20
1,3,5-Trimethylbenzene	ND		0.20	0.20
1,3-Butadiene	ND		0.20	0.20
1,3-Dichlorobenzene	ND		0.20	0.20
1,4-Dichlorobenzene	ND		0.20	0.20
1,4-Dioxane	ND		5.0	5.0
2,2,4-Trimethylpentane	ND		0.20	0.20
2-Chlorotoluene	ND		0.20	0.20
3-Chloropropene	ND		0.50	0.50
1-Ethyltoluene	ND		0.20	0.20
Acetone	ND		5.0	5.0
Benzene	0.26		0.20	0.20
Bromodichloromethane	ND		0.20	0.20
Bromoethene(Vinyl Bromide)	ND		0.20	0.20
Bromoform	ND		0.20	0.20
Bromomethane	ND		0.20	0.20
Carbon disulfide	ND		0.50	0.50
Carbon tetrachloride	ND		0.20	0.20
Chlorobenzene	ND		0.20	0.20
Chloroethane	ND		0.50	0.50
Chloroform	ND		0.20	0.20
Chloromethane	0.50		0.50	0.50
cis-1,2-Dichloroethene	ND		0.20	0.20
cis-1,3-Dichloropropene	ND		0.20	0.20
Cyclohexane	ND		0.20	0.20
Dibromochloromethane	ND		0.20	0.20
Dichlorodifluoromethane	ND		0.50	0.50
Ethylbenzene	ND		0.20	0.20
Freon TF	ND		0.20	0.20
Hexachlorobutadiene	ND		0.20	0.20
sopropyl alcohol	ND		5.0	5.0
n,p-Xylene	ND		0.50	0.50
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50
Methyl Ethyl Ketone	ND		0.50	0.50

Client Sample ID: SS-2R-INDOOR

Lab Sample ID: 200-26139-2 Date Sampled: 12/24/2014 1240

		TO-15 Volatile Organic	Compounds i	in Ambient A	Air	
Analysis Method:	TO-15	Analysis Batch:	200-83006	In	strument ID:	CHC.i
Prep Method:	Summa Canister	Prep Batch:	N/A	La	ab File ID:	11481_09.D
Dilution:	1.0			In	itial Weight/Volume:	200 mL
Analysis Date:	01/06/2015 1506				nal Weight/Volume:	200 mL
Prep Date:	01/06/2015 1506				jection Volume:	200 mL
гтер Бате.	01/00/2013 1300			"",	jection volume.	200 IIIL
Analyte		Result (p	pb v/v)	Qualifier	RL	RL
methyl isobutyl keto	one	ND			0.50	0.50
Methyl tert-butyl eth	ner	ND			0.20	0.20
Methylene Chloride	<b>!</b>	ND			0.50	0.50
n-Heptane		ND			0.20	0.20
n-Hexane		ND			0.20	0.20
Styrene		ND			0.20	0.20
tert-Butyl alcohol		ND			5.0	5.0
Tetrachloroethene		ND			0.20	0.20
Tetrahydrofuran		ND			5.0	5.0
Toluene		0.21			0.20	0.20
trans-1,2-Dichloroe	thene	ND			0.20	0.20
trans-1,3-Dichlorop		ND			0.20	0.20
Trichloroethene	торене	ND			0.20	0.20
Trichlorofluorometh	ano	0.20			0.20	0.20
	iarie					
Vinyl chloride		ND ND			0.20	0.20
Xylene (total)		ND			0.20	0.20
Xylene, o-		ND			0.20	0.20
Analyte		Result (u	g/m3)	Qualifier	RL	RL
1,1,1-Trichloroetha	ne	ND			1.1	1.1
1,1,2,2-Tetrachloro	ethane	ND			1.4	1.4
1,1,2-Trichloroetha	ne	ND			1.1	1.1
1,1-Dichloroethane		ND			0.81	0.81
1,1-Dichloroethene		ND			0.79	0.79
1,2,4-Trichlorobenz	ene	ND			3.7	3.7
1,2,4-Trimethylben	zene	ND			0.98	0.98
1,2-Dibromoethane		ND			1.5	1.5
1,2-Dichlorobenzen		ND			1.2	1.2
1,2-Dichloroethane		ND			0.81	0.81
1,2-Dichloroethene	Total	ND			0.79	0.79
1,2-Dichloropropan	,	ND			0.92	0.92
1,2-Dichlorotetraflu		ND			1.4	1.4
1,3,5-Trimethylben		ND			0.98	0.98
1,3-Butadiene	zene	ND ND			0.44	0.44
1,3-Butadierie  1,3-Dichlorobenzen	10	ND ND			1.2	1.2
•						
1,4-Dichlorobenzen	I <del>C</del>	ND ND			1.2	1.2
1,4-Dioxane		ND			18	18
2,2,4-Trimethylpent	ane	ND			0.93	0.93
2-Chlorotoluene		ND			1.0	1.0
3-Chloropropene		ND			1.6	1.6
4-Ethyltoluene		ND			0.98	0.98
Acetone		ND			12	12
Benzene		0.82			0.64	0.64
Bromodichlorometh	nane	ND			1.3	1.3
Bromoethene(Vinyl	Bromide)	ND			0.87	0.87
Bromoform		ND			2.1	2.1

Client: AECOM, Inc. Job Number: 200-26139-1

Client Sample ID: SS-2R-INDOOR

Xylene, o-

Lab Sample ID: 200-26139-2 Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

### TO-15 Volatile Organic Compounds in Ambient Air TO-15 200-83006 CHC.i Analysis Method: Analysis Batch: Instrument ID: Summa Canister Prep Batch: N/A Lab File ID: 11481\_09.D Prep Method: Dilution: Initial Weight/Volume: 200 mL 1.0 Analysis Date: 01/06/2015 1506 Final Weight/Volume: 200 mL Prep Date: 01/06/2015 1506 Injection Volume: 200 mL Qualifier Analyte Result (ug/m3) RL RL Bromomethane ND 0.78 0.78 ND 1.6 Carbon disulfide 1.6 Carbon tetrachloride ND 1.3 1.3 Chlorobenzene ND 0.92 0.92 Chloroethane ND 1.3 1.3 Chloroform ND 0.98 0.98 Chloromethane 1.0 1.0 1.0 cis-1,2-Dichloroethene ND 0.79 0.79 cis-1,3-Dichloropropene ND 0.91 0.91 Cyclohexane ND 0.69 0.69 Dibromochloromethane ND 1.7 1.7 Dichlorodifluoromethane ND 2.5 2.5 Ethylbenzene ND 0.87 0.87 Freon TF ND 1.5 1.5 Hexachlorobutadiene ND 2.1 2.1 Isopropyl alcohol ND 12 12 2.2 m,p-Xylene ND 2.2 Methyl Butyl Ketone (2-Hexanone) 2.0 2.0 ND Methyl Ethyl Ketone ND 1.5 1.5 methyl isobutyl ketone ND 2.0 2.0 Methyl tert-butyl ether ND 0.72 0.72 Methylene Chloride ND 1.7 1.7 n-Heptane ND 0.82 0.82 n-Hexane ND 0.70 0.70 Styrene ND 0.85 0.85 ND 15 tert-Butvl alcohol 15 Tetrachloroethene ND 1.4 1.4 Tetrahydrofuran ND 15 15 Toluene 0.80 0.75 0.75 trans-1,2-Dichloroethene ND 0.79 0.79 trans-1,3-Dichloropropene ND 0.91 0.91 Trichloroethene ND 1.1 1.1 Trichlorofluoromethane 1.1 1.1 1.1 Vinyl chloride ND 0.51 0.51 Xylene (total) ND 0.87 0.87

0.87

0.87

ND

Client Sample ID: AS-1R

Lab Sample ID: 200-26139-3 Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

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

Analysis Method:	TO-15	Analysis Batch:	200-83006	Instrument ID:	CHC.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	11481_10.D
D'' ''	4.0			1 20 1347 2 1747 1	000

Dilution: 1.0 Initial Weight/Volume: 200 mL Analysis Date: 01/06/2015 1553 Final Weight/Volume: 200 mL

Prep Date: 01/06/2015 1553 Injection Volume: 200 mL

Prep Date: 01/06/2015 1553		injection volume: 200 mL		
Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		0.20	0.20
1,1,2,2-Tetrachloroethane	ND		0.20	0.20
1,1,2-Trichloroethane	ND		0.20	0.20
1,1-Dichloroethane	ND		0.20	0.20
1,1-Dichloroethene	ND		0.20	0.20
1,2,4-Trichlorobenzene	ND		0.50	0.50
1,2,4-Trimethylbenzene	ND		0.20	0.20
1,2-Dibromoethane	ND		0.20	0.20
1,2-Dichlorobenzene	ND		0.20	0.20
1,2-Dichloroethane	ND		0.20	0.20
1,2-Dichloroethene, Total	ND		0.20	0.20
1,2-Dichloropropane	ND		0.20	0.20
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20
1,3,5-Trimethylbenzene	ND		0.20	0.20
1,3-Butadiene	ND		0.20	0.20
1,3-Dichlorobenzene	ND		0.20	0.20
1,4-Dichlorobenzene	ND		0.20	0.20
1,4-Dioxane	ND		5.0	5.0
2,2,4-Trimethylpentane	ND		0.20	0.20
2-Chlorotoluene	ND		0.20	0.20
3-Chloropropene	ND		0.50	0.50
4-Ethyltoluene	ND		0.20	0.20
Acetone	ND		5.0	5.0
Benzene	ND		0.20	0.20
Bromodichloromethane	ND		0.20	0.20
Bromoethene(Vinyl Bromide)	ND		0.20	0.20
Bromoform	ND		0.20	0.20
3romomethane	ND		0.20	0.20
Carbon disulfide	ND		0.50	0.50
Carbon tetrachloride	ND		0.20	0.20
Chlorobenzene	ND		0.20	0.20
Chloroethane	ND		0.50	0.50
Chloroform	ND		0.20	0.20
Chloromethane	ND		0.50	0.50
cis-1,2-Dichloroethene	ND		0.20	0.20
cis-1,3-Dichloropropene	ND		0.20	0.20
Cyclohexane	ND		0.20	0.20
Dibromochloromethane	ND		0.20	0.20
Dichlorodifluoromethane	ND		0.50	0.50
Ethylbenzene	ND		0.20	0.20
Freon TF	ND		0.20	0.20
Hexachlorobutadiene	ND		0.20	0.20
Isopropyl alcohol	ND		5.0	5.0
m,p-Xylene	ND ND		0.50	0.50
Methyl Butyl Ketone (2-Hexanone)	ND ND		0.50	0.50
Methyl Ethyl Ketone (2-nexanone)	ND ND		0.50	0.50
welly Lily Nelone	IND		0.50	0.50

Client Sample ID: AS-1R

Lab Sample ID: 200-26139-3 Date Sampled: 12/24/2014 1240

Client Matrix:						Received: 12/31/2014
		TO-15 Volatile Organic	Compounds i	in Ambient	Air	
Analysis Method:	TO-15	Analysis Batch:	200-83006		nstrument ID:	CHC.i
Prep Method:	Summa Canister	Prep Batch:	N/A	L	₋ab File ID:	11481_10.D
Dilution:	1.0			I	nitial Weight/Volume:	200 mL
Analysis Date:	01/06/2015 1553			F	inal Weight/Volume:	200 mL
Prep Date:	01/06/2015 1553			I	njection Volume:	200 mL
Analyte		Result (p	pb v/v)	Qualifier	RL	RL
methyl isobutyl keto	one	ND			0.50	0.50
Methyl tert-butyl etl	her	ND			0.20	0.20
Methylene Chloride	e	ND			0.50	0.50
n-Heptane		ND			0.20	0.20
n-Hexane		ND			0.20	0.20
Styrene		ND			0.20	0.20
tert-Butyl alcohol		ND			5.0	5.0
Tetrachloroethene		ND			0.20	0.20
Tetrahydrofuran		ND			5.0	5.0
Toluene		0.20			0.20	0.20
trans-1,2-Dichloroe	ethene	ND			0.20	0.20
trans-1,3-Dichlorop	propene	ND			0.20	0.20
Trichloroethene		ND			0.20	0.20
Trichlorofluorometh	nane	0.21			0.20	0.20
Vinyl chloride		ND			0.20	0.20
Xylene (total)		ND			0.20	0.20
Xylene, o-		ND			0.20	0.20
Analyte		Result (u	g/m3)	Qualifier	RL	RL
1,1,1-Trichloroetha	ine	ND			1.1	1.1
1,1,2,2-Tetrachloro		ND			1.4	1.4
1, 1,2,2-1 etracriioro	etnane	IND			1.7	1.7
1,1,2-Trichloroetha		ND ND			1.1	1.1
	ine					
1,1,2-Trichloroetha	ne e	ND			1.1	1.1
1,1,2-Trichloroetha 1,1-Dichloroethane	ine e	ND ND			1.1 0.81	1.1 0.81
1,1,2-Trichloroetha 1,1-Dichloroethane 1,1-Dichloroethene	ine e e zene	ND ND ND			1.1 0.81 0.79	1.1 0.81 0.79
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenz	ine e e zene zene	ND ND ND ND			1.1 0.81 0.79 3.7 0.98 1.5	1.1 0.81 0.79 3.7 0.98 1.5
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenz 1,2,4-Trimethylben	ine e zene zene	ND ND ND ND ND			1.1 0.81 0.79 3.7 0.98	1.1 0.81 0.79 3.7 0.98
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer 1,2-Dichloroethane	ine e e zene e e ne e	ND ND ND ND ND ND ND			1.1 0.81 0.79 3.7 0.98 1.5 1.2	1.1 0.81 0.79 3.7 0.98 1.5 1.2
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer	ine e e zene e e ne e	ND ND ND ND ND ND			1.1 0.81 0.79 3.7 0.98 1.5	1.1 0.81 0.79 3.7 0.98 1.5
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropan	ane e e e e e e e e e e e e e e e e e e	ND			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropan	ane e e e e e e e e e e e e e e e e e e	ND			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropan 1,2-Dichlorotetraflu	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene 3-Chloropropene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98
1,1,2-Trichloroethan 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dichlorobenzer 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene 3-Chloropropene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98 1.9
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene	ane e e e e e e e e e e e e e e e e e e	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98 12 0.64	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene Acetone Benzene Bromodichlorometr	zene zene e zene e ne e t t t t t t t t t t t t t t t	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98 1.9
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenz 1,2,4-Trimethylben 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorotetraflu 1,3,5-Trimethylben 1,3-Butadiene 1,3-Dichlorobenzer 1,4-Dichlorobenzer 1,4-Dioxane 2,2,4-Trimethylpen 2-Chlorotoluene 3-Chloropropene 4-Ethyltoluene Acetone Benzene	zene zene e zene e ne e t t t t t t t t t t t t t t t	ND N			1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.8 0.93 1.0 1.6 0.98 12 0.64	1.1 0.81 0.79 3.7 0.98 1.5 1.2 0.81 0.79 0.92 1.4 0.98 0.44 1.2 1.2 1.2 18 0.93 1.0 1.6 0.98 12 0.64

Client: AECOM, Inc. Job Number: 200-26139-1

Client Sample ID: AS-1R

Lab Sample ID: 200-26139-3 Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

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

Analysis Method: TO-15 Analysis Batch: 200-83006 Instrument ID: CHC.i

Prep Method: Summa Canister Prep Batch: N/A Lab File ID: 11481\_10.D

Dilution: 1.0 Initial Weight/Volume: 200 mL

Analysis Date:	01/06/2015 1553		Final		mL	
Prep Date:	01/06/2015 1553		Inject	tion Volume:	200	mL
Analyte		Result (ug/m3)	Qualifier	RL		RL
Bromomethane		ND		0.78		0.78
Carbon disulfide		ND		1.6		1.6
Carbon tetrachlorid	de	ND		1.3		1.3
Chlorobenzene		ND		0.92		0.92
Chloroethane		ND		1.3		1.3
Chloroform		ND		0.98		0.98
Chloromethane		ND		1.0		1.0
cis-1,2-Dichloroeth	ene	ND		0.79		0.79
cis-1,3-Dichloropro	pene	ND		0.91		0.91
Cyclohexane		ND		0.69		0.69
Dibromochlorometl	hane	ND		1.7		1.7
Dichlorodifluorome		ND		2.5		2.5
Ethylbenzene		ND		0.87		0.87
Freon TF		ND		1.5		1.5
Hexachlorobutadie	ne	ND		2.1		2.1
Isopropyl alcohol		ND		12		12
m,p-Xylene		ND		2.2		2.2
Methyl Butyl Keton	e (2-Hexanone)	ND		2.0		2.0
Methyl Ethyl Keton		ND		1.5		1.5
methyl isobutyl ket		ND		2.0		2.0
Methyl tert-butyl etl	her	ND		0.72		0.72
Methylene Chloride	е	ND		1.7		1.7
n-Heptane		ND		0.82		0.82
n-Hexane		ND		0.70		0.70
Styrene		ND		0.85		0.85
tert-Butyl alcohol		ND		15		15
Tetrachloroethene		ND		1.4		1.4
Tetrahydrofuran		ND		15		15
Toluene		0.74		0.75		0.75
trans-1,2-Dichloroe	ethene	ND		0.79		0.79
trans-1,3-Dichlorop		ND		0.91		0.91
Trichloroethene	•	ND		1.1		1.1
Trichlorofluorometh	nane	1.2		1.1		1.1
Vinyl chloride		ND		0.51		0.51
Xylene (total)		ND		0.87		0.87
Xylene, o-		ND		0.87		0.87

Client Sample ID: AS-DUPLICATE

Lab Sample ID: 200-26139-4FD Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

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

Analysis Method:	TO-15	Analysis Batch:	200-83006	Instrument ID:	CHC.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	11481_11.D
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	01/06/2015 1640			Final Weight/Volume:	200 mL
Prep Date:	01/06/2015 1640			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		0.20	0.20
1,1,2,2-Tetrachloroethane	ND		0.20	0.20
1,1,2-Trichloroethane	ND		0.20	0.20
1,1-Dichloroethane	ND		0.20	0.20
1,1-Dichloroethene	ND		0.20	0.20
1,2,4-Trichlorobenzene	ND		0.50	0.50
1,2,4-Trimethylbenzene	ND		0.20	0.20
1,2-Dibromoethane	ND		0.20	0.20
1,2-Dichlorobenzene	ND		0.20	0.20
1,2-Dichloroethane	ND		0.20	0.20
1,2-Dichloroethene, Total	ND		0.20	0.20
1,2-Dichloropropane	ND		0.20	0.20
1,2-Dichlorotetrafluoroethane	ND		0.20	0.20
1,3,5-Trimethylbenzene	ND		0.20	0.20
1,3-Butadiene	ND		0.20	0.20
1,3-Dichlorobenzene	ND		0.20	0.20
1,4-Dichlorobenzene	ND		0.20	0.20
1,4-Dioxane	ND		5.0	5.0
2,2,4-Trimethylpentane	ND		0.20	0.20
2-Chlorotoluene	ND		0.20	0.20
3-Chloropropene	ND		0.50	0.50
4-Ethyltoluene	ND		0.20	0.20
Acetone	ND		5.0	5.0
Benzene	ND		0.20	0.20
Bromodichloromethane	ND		0.20	0.20
Bromoethene(Vinyl Bromide)	ND		0.20	0.20
Bromoform	ND		0.20	0.20
Bromomethane	ND		0.20	0.20
Carbon disulfide	ND		0.50	0.50
Carbon tetrachloride	ND		0.20	0.20
Chlorobenzene	ND		0.20	0.20
Chloroethane	ND		0.50	0.50
Chloroform	ND		0.20	0.20
Chloromethane	0.54		0.50	0.50
cis-1,2-Dichloroethene	ND		0.20	0.20
cis-1,3-Dichloropropene	ND		0.20	0.20
Cyclohexane	ND		0.20	0.20
Dibromochloromethane	ND		0.20	0.20
Dichlorodifluoromethane	ND		0.50	0.50
Ethylbenzene	ND		0.20	0.20
Freon TF	ND		0.20	0.20
Hexachlorobutadiene	ND		0.20	0.20
Isopropyl alcohol	ND		5.0	5.0
m,p-Xylene	ND		0.50	0.50
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.50
Methyl Ethyl Ketone	0.58		0.50	0.50

Client Sample ID: AS-DUPLICATE

Lab Sample ID: 200-26139-4FD Date Sampled: 12/24/2014 1240

TO-15 Volatile Organic Compounds in Ambient Air												
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	TO-15 Summa Canister 1.0 01/06/2015 1640 01/06/2015 1640	Analysis Batch: Prep Batch:	Analysis Batch: 200-83006 Instrument ID:									
Analyte		Result (p	pb v/v)	Qualifie	r RL	RL						
methyl isobutyl keto	ne	ND	,		0.50	0.50						
Methyl tert-butyl eth	er	ND			0.20	0.20						
Methylene Chloride		ND			0.50	0.50						
n-Heptane		ND			0.20	0.20						
n-Hexane		ND			0.20	0.20						
Styrene		ND			0.20	0.20						
tert-Butyl alcohol		ND			5.0	5.0						
Tetrachloroethene		0.43			0.20	0.20						
Tetrahydrofuran		ND			5.0	5.0						
Toluene		0.20			0.20	0.20						
trans-1,2-Dichloroet	thene the same	ND			0.20	0.20						
trans-1,3-Dichloropi	ropene	ND			0.20	0.20						
Trichloroethene		ND			0.20	0.20						
Trichlorofluorometh	ane	0.22			0.20	0.20						
Vinyl chloride		ND			0.20	0.20						
Xylene (total)		ND			0.20	0.20						
Xylene, o-		ND			0.20	0.20						
Analyte		Result (u	a/m3)	Qualifie	r RL	RL						
1,1,1-Trichloroethar	ne	ND	go,	Q	1.1	1.1						
1,1,2,2-Tetrachloroe		ND			1.4	1.4						
1,1,2-Trichloroethar		ND			1.1	1.1						
1,1-Dichloroethane		ND			0.81	0.81						
1,1-Dichloroethene		ND			0.79	0.79						
1,2,4-Trichlorobenz	ene	ND			3.7	3.7						
1,2,4-Trimethylbenz		ND			0.98	0.98						
1,2-Dibromoethane		ND			1.5	1.5						
1,2-Dichlorobenzen	e	ND			1.2	1.2						
1,2-Dichloroethane		ND			0.81	0.81						
1,2-Dichloroethene,	Total	ND			0.79	0.79						
1.2-Dichloropropane		ND			0.92	0.92						
1,2-Dichlorotetrafluo		ND			1.4	1.4						
1,3,5-Trimethylbenz		ND			0.98	0.98						
1,3-Butadiene		ND			0.44	0.44						
1,3-Dichlorobenzen	е	ND		1.2		1.2						
1,4-Dichlorobenzen	e	ND			1.2	1.2						
1,4-Dioxane		ND			18	18						
2,2,4-Trimethylpent	ane	ND			0.93	0.93						
2-Chlorotoluene		ND			1.0	1.0						
3-Chloropropene		ND			1.6	1.6						
4-Ethyltoluene		ND			0.98	0.98						
Acetone		ND			12	12						
Benzene		ND			0.64	0.64						
		ND			1.3	1.3						
Bromodichlorometh	ane	ND			1.0	1.0						
Bromodichlorometh Bromoethene(Vinyl		ND			0.87	0.87						

Client: AECOM, Inc. Job Number: 200-26139-1

Client Sample ID: AS-DUPLICATE

trans-1,2-Dichloroethene

Trichlorofluoromethane

Trichloroethene

Vinyl chloride

Xylene (total)

Xylene, o-

trans-1,3-Dichloropropene

Lab Sample ID: 200-26139-4FD Date Sampled: 12/24/2014 1240

Client Matrix: Air Date Received: 12/31/2014 0845

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

Analysis Method: TO-15 Analysis Batch: 200-83006 Instrument ID: CHC.i

Prep Method: Summa Canister Prep Batch: N/A Lab File ID: 11481\_11.D

 Dilution:
 1.0
 Initial Weight/Volume:
 200 mL

 Analysis Date:
 01/06/2015 1640
 Final Weight/Volume:
 200 mL

 Prep Date:
 01/06/2015 1640
 Injection Volume:
 200 mL

Qualifier Analyte Result (ug/m3) RL RL Bromomethane ND 0.78 0.78 ND 1.6 Carbon disulfide 1.6 Carbon tetrachloride ND 1.3 1.3 Chlorobenzene ND 0.92 0.92 Chloroethane ND 1.3 1.3 Chloroform ND 0.98 0.98 Chloromethane 1.0 1.0 1.1 cis-1,2-Dichloroethene ND 0.79 0.79 cis-1,3-Dichloropropene ND 0.91 0.91 Cyclohexane ND 0.69 0.69 Dibromochloromethane ND 1.7 1.7 Dichlorodifluoromethane ND 2.5 2.5 Ethylbenzene ND 0.87 0.87 Freon TF ND 1.5 1.5 Hexachlorobutadiene ND 2.1 2.1 Isopropyl alcohol ND 12 12 2.2 m,p-Xylene ND 2.2 Methyl Butyl Ketone (2-Hexanone) 2.0 2.0 ND Methyl Ethyl Ketone 1.7 1.5 1.5 methyl isobutyl ketone ND 2.0 2.0 Methyl tert-butyl ether ND 0.72 0.72 Methylene Chloride ND 1.7 1.7 n-Heptane ND 0.82 0.82 n-Hexane ND 0.70 0.70 Styrene ND 0.85 0.85 tert-Butvl alcohol ND 15 15 Tetrachloroethene 2.9 1.4 1.4 Tetrahydrofuran ND 15 15 Toluene 0.77 0.75 0.75

0.79

0.91

1.1

1.1

0.51

0.87

0.87

0.79

0.91

1.1

1.1

0.51

0.87

0.87

ND

ND

ND

1.2

ND

ND

ND

# Shipping and Receiving Documents

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### 01/07/2015

### TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403 phone 802-660-1990 fax 802-660-1919

### Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information					Samples Collected By: DLZ						lof_( cocs								
Company: AECOM	Phone: 716 826 4506 ext 15									3, 333									
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City/State/Zip Amherst, NX 14226										1	İ	Į	Ê		1	- 1		ļ	œ l
Phone: 716 836 4506 2nt 15	Site Contact: 0. Zack								1		section)		1			- 1	section)		
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