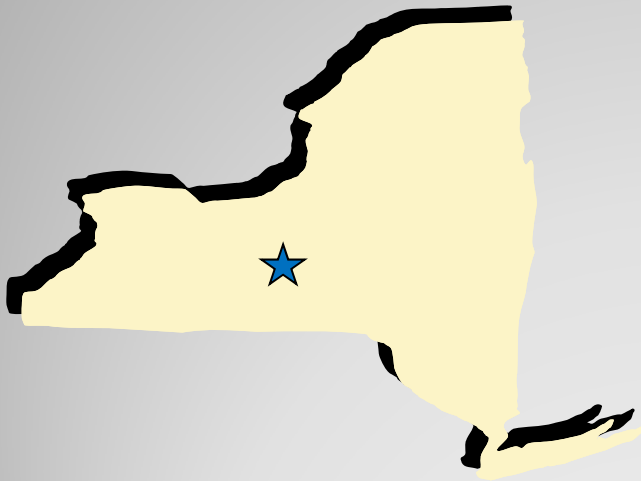


***PHASE VII SOIL VAPOR INTRUSION SUMMARY REPORT  
ADDENDUM***

**Off-site Former Axiohm Facility (C755012A)**

**Tompkins County, Ithaca, New York**



***Prepared for:***



**New York State Department of Environmental Conservation  
Division of Environmental Remediation**

***Prepared by:***



**EA ENGINEERING, P.C. and Its Affiliate  
EA SCIENCE and TECHNOLOGY**

**JULY 2012**

**Phase VII Soil Vapor Intrusion  
Summary Report Addendum  
Off-Site Former Axiohm Facility (C755012A)  
Ithaca, New York**

*Prepared for*

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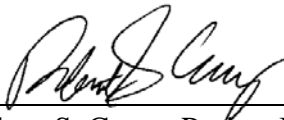


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Christopher J. Canonica, P.E., Program Manager  
EA Engineering, P.C.

24 July 2012

Date



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Robert S. Casey, Project Manager  
EA Science and Technology

24 July 2012

Date

July 2012  
Version: FINAL  
EA Project No. 14368.19

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1	Site location.
2	Post-mitigation enhancement and vapor intrusion monitoring structure locations.
3	Vapor intrusion monitoring results.

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1	Sampling and analytical program – February 2012.
2	Vapor intrusion monitoring analytical data.
3	Post-mitigation enhancement vapor intrusion analytical data.

## 1. INTRODUCTION

### 1.1 PROJECT BACKGROUND

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C., and its affiliate EA Science and Technology (EA) to perform Phase VII soil vapor intrusion (SVI) evaluations at the offsite Former Axiohm Facility (NYSDEC Site No. C755012A). The site is located within the South Hill neighborhood in the city of Ithaca, Tompkins County, New York (Figure 1). EA completed activities for Phase VII SVI evaluations under the NYSDEC State Superfund Standby Contract (Work Assignment No. D004438-19).

Subsequent to the submission of the Final Phase VII SVI Summary Report (EA 2012)<sup>1</sup>, NYSDEC requested that EA complete SVI monitoring at two residential structures located within the study area based upon historical results. In addition, EA was tasked to provide engineering oversight during sub-slab depressurization system (SSDS) enhancement operations at three residential structures and to perform post-mitigation testing. EA performed the field investigation and engineering oversight activities in February 2012. This addendum report summarizes the supplemental field work completed to date following submission of the Final Phase VII SVI Summary Report.

### 1.2 OBJECTIVES

The objective of the SVI monitoring was to further evaluate the potential for vapor intrusion within selected structures. The objective of the structure mitigations enhancements was to improve SSDS operation at structures with existing Radon/SSDSs and to enhance mitigation performance for potential vapor intrusion.

### 1.3 REPORT ORGANIZATION

A summary of field investigation activities conducted in February 2012 is included in Section 2. Section 3 summarizes analytical results of the field sampling activities. Analytical results are summarized in table format and associated figures.

The following are provided as appendixes:

- **Appendix A**—NYSDEC Daily Field Reports
- **Appendix B**—Indoor Air/Sub-Slab Vapor Sampling Forms
- **Appendix C**—Data Usability Summary Reports
- **Appendix D**—Laboratory Analytical Data, Form Is, Chain of Custody Forms.

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1. EA Engineering, P.C., and its affiliate EA Science and Technology, 2012. Phase VII Soil Vapor Intrusion Summary Report, *Off-site Former Axiohm Facility (C755012), Ithaca, New York*. January

## 2. FIELD INVESTIGATION ACTIVITIES

Following the Phase VII SVI evaluations, two residential structures were identified by NYSDEC and New York State Department of Health (NYSDOH) for installation of SSDSs, and two residential structures were identified for further SVI evaluation. Residential structures with active radon mitigation systems were evaluated for system performance, and additional SVI sampling and/or radon sampling was conducted as deemed necessary. Based on supplemental sampling, NYSDEC and NYSDOH identified three residential structures with previously installed radon mitigation systems as requiring upgrades to enhance system performance and recommended additional sampling at the two residential structures previously identified for further SVI evaluation (Figure 2).

Copies of daily field reports are provided in Appendix A. Table 1 presents the Phase VII SVI reevaluation/post-SSDS enhancement analytical sampling program. Table 2 presents the residential structure address summary.

### 2.1 SSDS UPGRADES AND ENHANCEMENTS

On 6-9 February 2012, EA, NYSDEC, and Aztech Technologies, Inc (Aztech), a NYSDEC standby Remedial Contractor, completed SSDS enhancements at Structures 35, 39, and 43. All enhancements were performed by Aztech in accordance with the U.S. Environmental Protection Agency (EPA) Radon Mitigation Standard 402-R93-078 and the NYSDOH Draft Guidance, Appendix F, Standard Specifications, Active Soil Depressurizations Systems. A summary of the SSDS enhancement completed at each structure is provided in the following sections.

#### Structure 35

Structure 35 contains a preexisting radon mitigation system, which functions in the same manner as a SSDS. Based upon previous inspections, SVI evaluations of this structure completed in December 2010 and May 2011, and the analytical results of a sub-slab passive diffusion sampler deployed in the sub-slab environment in June 2011, an unused floor drain was observed to be a potential area for vapor intrusion and “short circuiting” of the existing system. On 6 February 2012, EA oversaw the installation of a concrete seal over the existing floor drain in an attempt to eliminate vapor intrusion through the open floor drain. A damaged clay drain tile beneath the concrete floor was repaired with Fernco<sup>®</sup> couplings and a section of polyvinyl chloride (PVC) piping. The void space beneath the concrete floor was then filled with a porous pea stone material, with new concrete installed to the floor surface to provide a seal between the sub-slab environment and the basement area. In addition, a series of small cracks observed beneath the carpeted portion of the basement were sealed to further eliminate the potential for short circuiting of the SSDS.

## Structure 39

Structure 39 contains a preexisting radon mitigation system. Previous inspections of this structure identified poor communication between the system extraction point and north portions of the sub-slab environment. Based upon these results, and at the request of the NYSDEC and NYSDOH, EA oversaw the installation of a secondary extraction point. Aztech installed the secondary extraction point along the northern portion of the basement of Structure 39 in order to improve communication within the sub-slab environment. The secondary extraction point was installed to a depth of approximately 16 in. to reach the sub-slab environment beneath a partially exposed footer observed beneath the basement stairs. The secondary extraction point was then tied in with the existing radon mitigation system piping and fan.

## Structure 43

Structure 43 was previously selected by NYSDEC and NYSDOH for installation of a SSDS, based upon the results of the SVI evaluation completed in December 2010. EA provided engineering oversight of Aztech during the installation of the SSDS in June 2011. Post-mitigation sampling, completed in July 2011, confirmed the presence of TCE within basement air at levels similar to pre-mitigation concentrations (i.e., 0.37–0.53  $\mu\text{g}/\text{m}^3$ ). Based upon these results, and at the request of the NYSDEC and NYSDOH, EA oversaw the installation of a secondary extraction point from 7 to 8 February 2012. Aztech installed the secondary extraction point in the southern portion of the basement in order to improve communication within the sub-slab environment. The secondary extraction point was installed to a depth of approximately 10 in. through a dense clay material and a section of bedrock in an attempt to improve communication within the sub-slab environment. The secondary extraction point was then tied in with the existing SSDS piping and fan.

### 2.1.1 SSDS Post-Mitigation Enhancement Sampling

Following improvements of existing SSDSs at Structures 39 and 43, and sealing of the exposed floor drain at Structure 35, the systems were allowed to operate for approximately 1 week prior to the collection of post-enhancement samples. Post-mitigation enhancement sampling included the collection of basement indoor air and corresponding outdoor ambient air samples at each of the structures. Basement indoor air and outdoor ambient air samples were collected on 9-10 and 16-17 February 2012 following the procedures presented in Sections 2.1.3.1 and 2.1.3.2 of the Final Phase VII SVI Summary Report (EA 2012)<sup>1</sup>. Basement indoor air and outdoor ambient air samples were sent to Air Toxics for volatile organic compound (VOC) analysis by EPA Method TO-15. Sampling forms and photographs are included in Appendix B.

## 2.2 STRUCTURE MONITORING SAMPLING

Based upon the results of Phase VII SVI evaluations completed in November/December 2010 and May 2011, Structures 37 and 38 were identified by NYSDEC and NYSDOH for SVI monitoring.



Monitoring sampling was completed in February 2012 following the identical procedures described in Section 2.1 of the Final Phase VII SVI Summary Report (EA 2012)<sup>1</sup>. Sub-slab vapor and basement indoor air sampling was conducted in the same locations as the November/December 2010 and May 2011 SVI evaluations. Sub-slab vapor, basement indoor air, and outdoor ambient air samples were sent to Air Toxics for VOC analysis by EPA Method TO-15. Structure monitoring/sampling forms and photographs are included in Appendix B.

### **2.3 FIELD DUPLICATES**

Field quality control sampling included collection of duplicate samples and field blanks. Field duplicates were collected at the rate of 1 duplicate per 20 original samples per sample type (i.e., sub-slab vapor, basement indoor air, and outdoor ambient air).

One duplicate air/vapor sample was collected during the Phase VII SVI supplemental evaluations. The duplicate sample was collected at an indoor air sampling location, with two canisters set up adjacent to each other for sample collection.

### **3. RESULTS**

This section summarizes the analytical results of the field investigation activities conducted at the site in February 2012. SVI monitoring and post-mitigation samples were analyzed by an Environmental Laboratory Approval Program-certified laboratory in accordance with the reporting requirements as defined in NYSDEC Analytical Services Protocol of June 2000. Laboratory analytical data were reported using Category B deliverables and a standard electronic data deliverable. The analytical data package or sample delivery group (SDG) was validated by Environmental Data Services, Inc. (EDS) of Williamsburg, Virginia, an independent third party of this assignment.

#### **3.1 ANALYTICAL RESULTS**

An analytical summary table for Phase VII SVI monitoring sampling data is provided in Table 3. Figure 3 depicts the analytical results of the SVI monitoring sampling, specifically those associated with a decision matrix and air guidelines presented in the NYSDOH SVI Guidance.

An analytical summary table for the post-enhancement basement indoor air and outdoor ambient air samples collected following the improvement of the SSDSs is provided in Table 4.

Copies of data usability summary reports for the sub-slab vapor, basement air, and outdoor ambient air analytical data are provided in Appendix C. Analytical Form Is are provided in Appendix D.

#### **3.2 DATA USABILITY SUMMARY REPORTS**

EDS validated the analytical data package submitted to EA by Air Toxics, Ltd. Analytical data packages are submitted as SDGs based on the number of samples within each shipment receipted at the laboratory for analysis. The SDG associated with this soil vapor sampling event was reviewed for completeness and compliance as defined by the requirements for NYSDEC Analytical Services Protocol Category B deliverables.

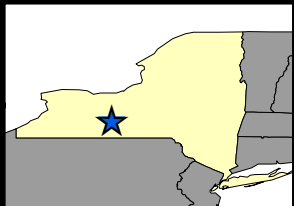
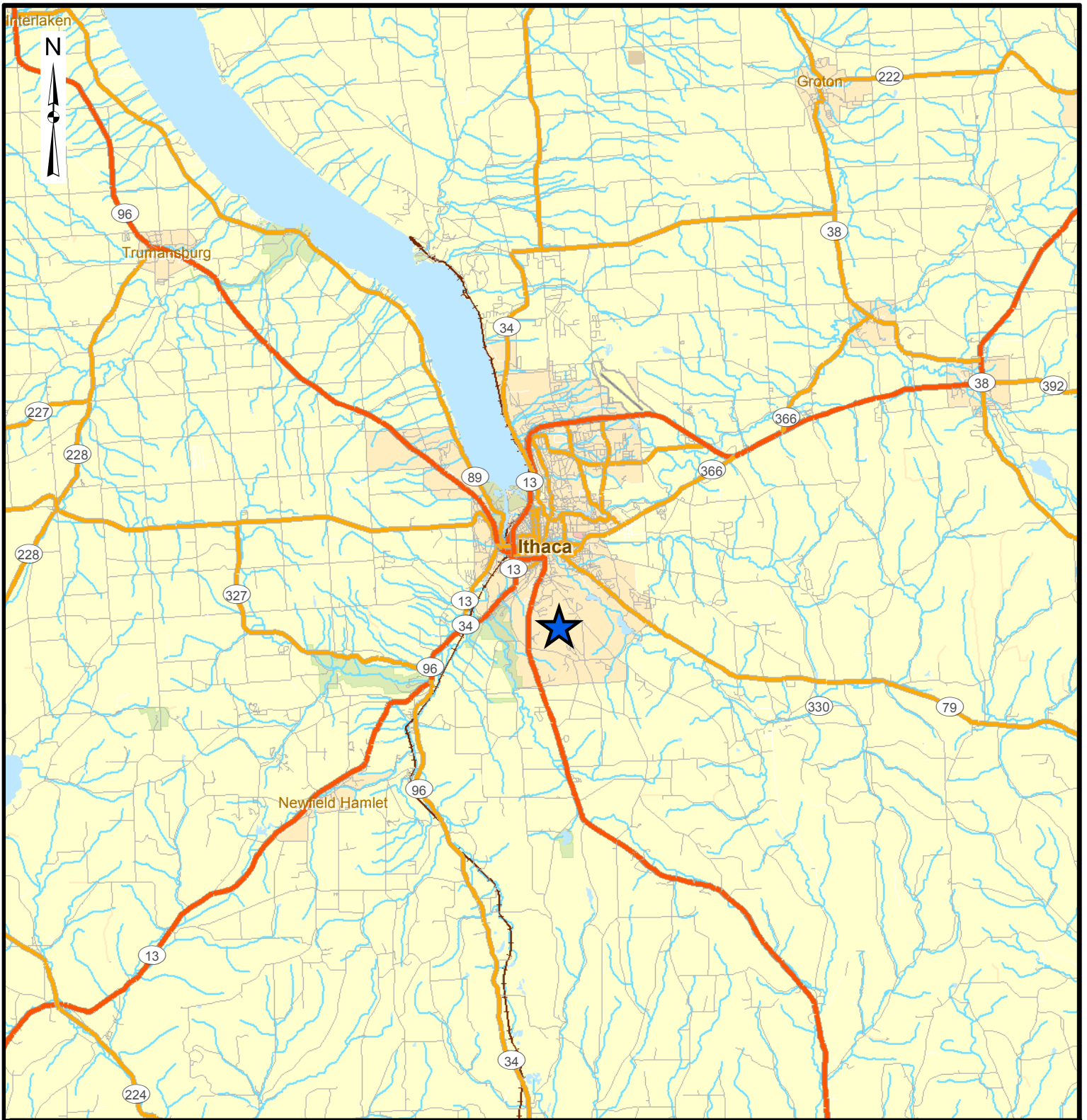
EDS completed data validation for one SDG and submitted a data usability summary report for the SDG reviewed for this soil vapor sampling event. Overall, the data were acceptable for their intended use; select samples were qualified for various reasons and are identified in the associated table.

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#### **4. CONCLUSIONS AND PROPOSED FURTHER ACTIONS**

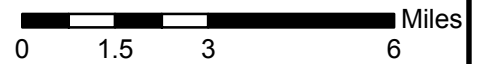
The NYSDEC and NYSDOH have evaluated the data generated during the Phase VII SVI evaluations and have made the following recommendations for proposed actions based on the results of the above supplemental mitigation activities/testing and the decision matrices provided in the NYSDOH SVI Guidance:

- Additional actions are not required at this time at Structures 35, 37, 38, 39, and 43 based on the monitoring and post-mitigation testing performed.
- Additional environmental investigations are ongoing in the Phase VII neighborhood in an effort to better understand the nature and extent of contamination in the subsurface. The Department will continue to ensure that all actions taken remain effective in the future. This may include additional sampling and/or evaluation of the existing radon/SSDSs.



**Legend**

★ Site Location



1 in = 3 miles

Source: NYS GIS Clearing House



ADDEUNDUM TO PHASE VII SOIL VAPOR  
INTRUSION SUMMARY REPORT  
OFF-SITE FORMER AXIOHM FACILITY (C755012A)  
TOMPKINS COUNTY, ITHACA, NEW YORK

FIGURE 1  
Site Location

PROJECT MGR:  
RSC

DESIGNED BY:  
CJS

CREATED BY:  
DCC

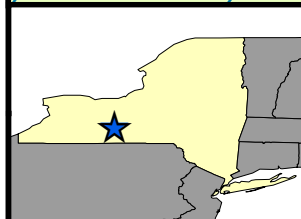
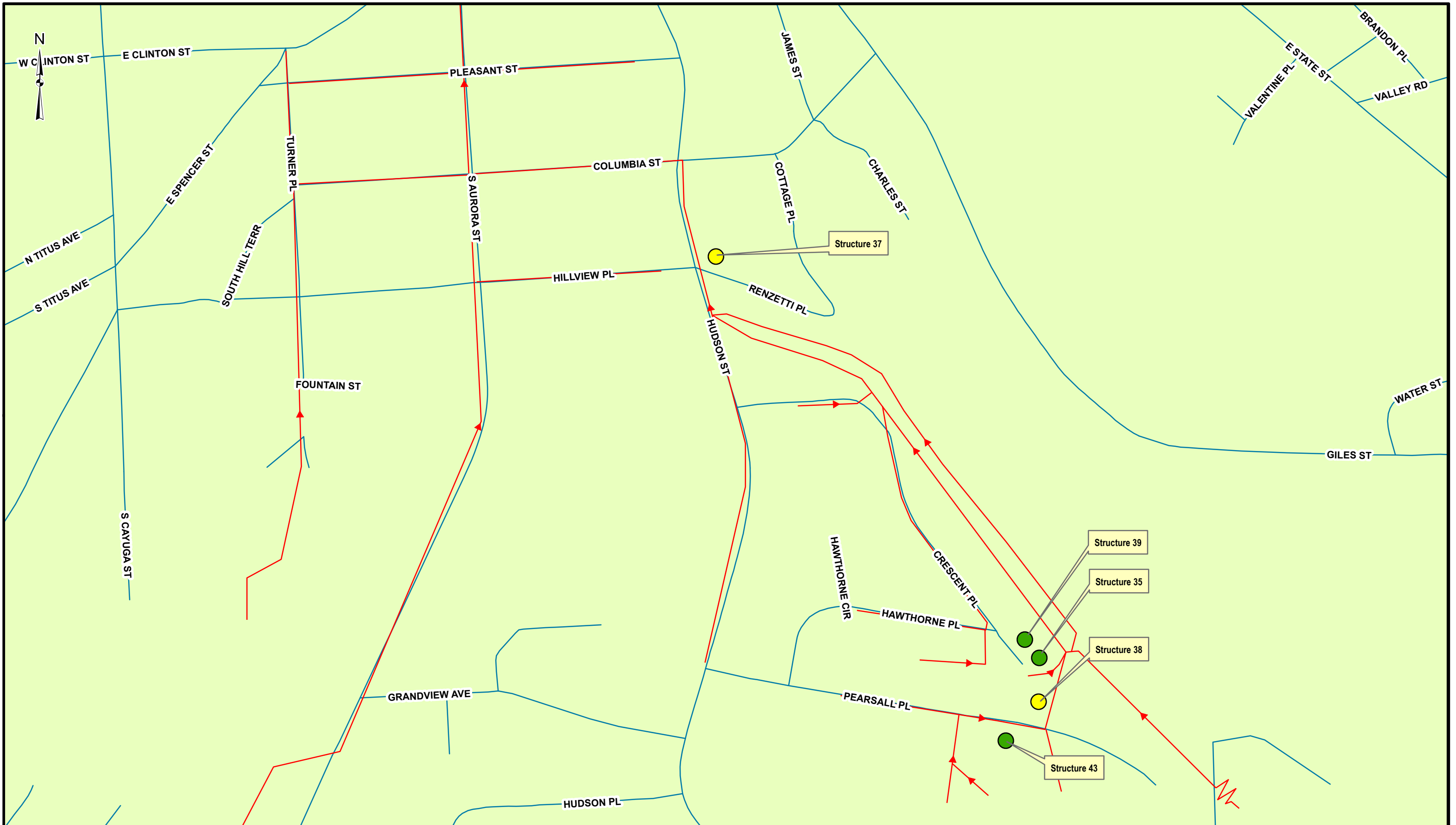
CHECKED BY:  
RSC

SCALE:  
AS SHOWN

DATE:  
JULY 2012

PROJECT NO:  
14368.19

FILE NO:  
GIS/PROJECTS/  
FIGURE1.MXD



ADDEUNDUM TO PHASE VII SOIL VAPOR INTRUSION SUMMARY REPORT  
 OFF-SITE FORMER AXIOHM FACILITY (C755012A)  
 TOMPKINS COUNTY, ITHACA, NEW YORK

PROJECT MGR: RSC	DESIGNED BY: CJS	CREATED BY: JCP
---------------------	---------------------	--------------------

**FIGURE 2**  
 Post-Mitigation Enhancement and Vapor Intrusion Monitoring Structure Locations

CHECKED BY: RSC	PROJECT NO: 14368.19
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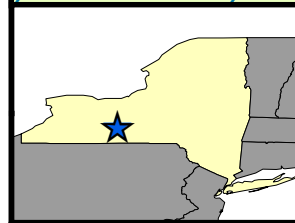
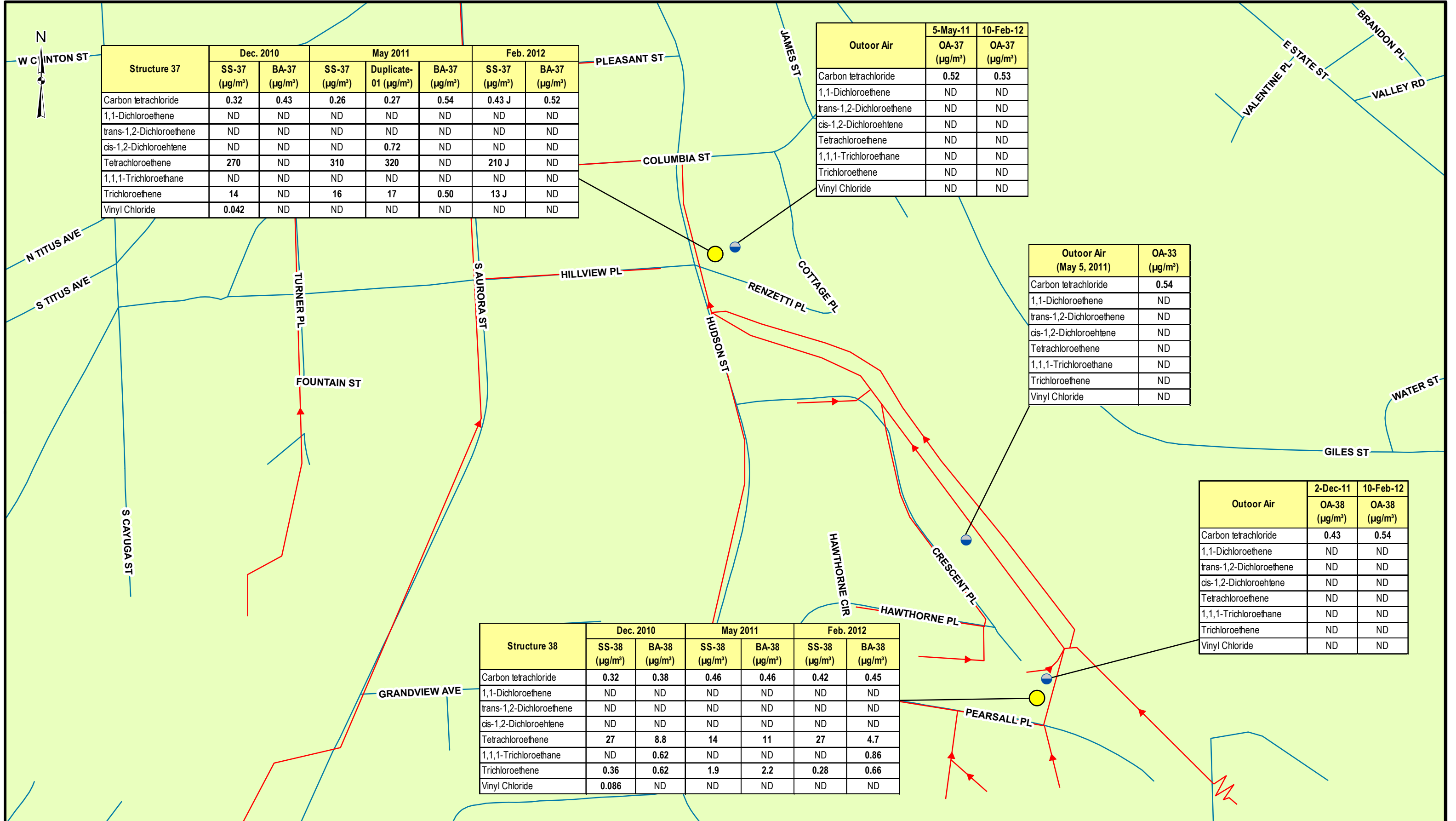
0 137.5 275 550 Feet  
 1 inch = 275 feet

DATE: JULY 2012	SCALE: AS SHOWN	FILE NO: GIS/PROJECTS/ FIGURE2.MXD
--------------------	--------------------	--

**Legend**

- Monitoring Structure
- Post-Mitigation Enhancement Structure
- Sanitary Sewer Line (Arrows Indicate Flow Direction)

Source: NYS GIS Clearing House



ADDEUNDUM TO PHASE VII SOIL VAPOR INTRUSION SUMMARY REPORT  
 OFF-SITE FORMER AXIOM FACILITY (C755012A)  
 TOMPKINS COUNTY, ITHACA, NEW YORK

PROJECT MGR: RSC    DESIGNED BY: CJS    CREATED BY: JCP

FIGURE 3  
 Vapor Intrusion Monitoring Results

CHECKED BY: RSC    PROJECT NO: 14368.19

0 137.5 275 550 Feet  
 1 inch = 275 feet

DATE: JULY 2012    SCALE: AS SHOWN    FILE NO: GIS/PROJECTS/FIGURE3.MXD

**Legend**

- Monitoring Structure
- Sewer Line (Arrows Indicate Flow Direction)
- Outdoor Air Sampling Location

Source: NYS GIS Clearing House

µg/m³ - Micrograms per cubic meter  
 ND - Non-detect  
 J - Concentration is an estimate

Post-mitigation sample results for Structures 35, 39, and 43 are included in Table 3

TABLE 1 SAMPLING AND ANALYTICAL PROGRAM – FEBRUARY 2012

	Sample Matrix	VOCs - TO-15		
		Sub-slab Vapor	Indoor Air	Outdoor Air
<b>VAPOR INTRUSION MONITORING SAMPLES</b>				
No. of Samples	Vapor/Air	2	2	2
Field Duplicate		---	---	---
Field Blank		---	---	---
MS/MSD		---	---	---
<b>Total No. of Analyses</b>		<b>2</b>	<b>3</b>	<b>2</b>
<b>POST-MITIGATION ENHANCEMENT SAMPLES</b>				
No. of Samples	Air	---	<b>3</b>	<b>2</b>
Field Duplicate		---	<b>1</b>	---
Trip Blank		---	---	---
MS/MSD		---	---	---
<b>Total No. of Analyses</b>		---	<b>4</b>	<b>2</b>
NOTE: VOCs = Volatile Organic Compounds --- = No Sample Taken MS/MSD = Matrix Spike/Matrix Spike Duplicate Laboratory quality control samples were collected at a rate of 1 per 20 samples, per matrix.				

TABLE 2 VAPOR INTRUSION MONITORING ANALYTICAL DATA

Parameter List EPA Method TO-15	Property ID	Structure 37											
	Sample ID	C755012A-SS-37		C755012A-BA-37		C755012A-OA-38		C755012A-SS-37-0511		C755012A-BA-37-0511		C755012A-SS-DUP-01-0511	
	Lab ID	1012126BR1-26A/26B		1012126BR1-25A/25B		1012126BR1-29A/29B		1105141A-07A/07B		1105141A-06A/06B		1105141A-10A/10B	
	Sample Type	Sub-slab Vapor		Basement Indoor Air		Outdoor Air		Sub-slab Vapor		Basement Indoor Air		Sub-slab Vapor Duplicate	
	Sample Date	12/2/2010		12/2/2010		12/2/2010		5/5/2011		5/5/2011		5/5/2011	
Carbon Tetrachloride	(µg/m3)	0.32		0.43		0.43		0.26		0.54		0.27	
1,1- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.67)	U	(<0.61)	U	(<0.69)	U	(<1.3)	U	(<0.65)	U
trans-1,2- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.67)	U	(<0.61)	U	(<0.69)	U	(<1.3)	U	(<0.65)	U
cis-1,2- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.67)	U	(<0.61)	U	(<0.69)	U	(<1.3)	U	0.72	
Tetrachloroethene	(µg/m3)	270		(<0.57)	U	(<0.52)	U	310		(<1.1)	U	320	
1,1,1- Trichloroethane	(µg/m3)	(<0.44)	U	(<0.46)	U	(<0.42)	U	(<0.48)	U	(<0.89)	U	(<0.45)	U
Trichloroethene	(µg/m3)	14		(<0.18)	U	(<0.17)	U	16		0.50		17	
Vinyl Chloride	(µg/m3)	0.042	U	(<0.043)	U	(<0.040)	U	(<0.045)	U	(<0.084)	U	(<0.042)	U

Parameter List EPA Method TO-15	Property ID	Structure 37										
	Sample ID	C755012A-OA-37-0511		C755012A-SS-37-0212		C755012A-BA-37-0212		C755012A-OA-37				
	Lab ID	1105141A-08A/08B		1202298-02A/02B		1202298-01A/01B		1202298-03A/03B				
	Sample Type	Outdoor Air		Sub-slab Vapor		Basement Indoor Air		Outdoor Air				
	Sample Date	5/5/2011		2/10/2012		2/10/2012		2/10/2012				
Carbon Tetrachloride	(µg/m3)	0.52		0.43	J	0.52		0.53				
1,1- Dichloroethene	(µg/m3)	(<0.82)	U	(<0.64)	U	(<0.63)	U	(<0.53)	U			
trans-1,2- Dichloroethene	(µg/m3)	(<0.82)	U	(<0.64)	U	(<0.63)	U	(<0.53)	U			
cis-1,2- Dichloroethene	(µg/m3)	(<0.82)	U	(<0.64)	U	(<0.63)	U	(<0.53)	U			
Tetrachloroethene	(µg/m3)	(<0.70)	U	210	J	(<0.54)	U	(<0.45)	U			
1,1,1- Trichloroethane	(µg/m3)	(<0.56)	U	(<0.44)	U	(<0.43)	U	(<0.36)	U			
Trichloroethene	(µg/m3)	(<0.22)	U	13	J	(<0.17)	U	(<0.14)	U			
Vinyl Chloride	(µg/m3)	(<0.053)	U	(<0.041)	U	(<0.040)	U	(<0.034)	U			

NOTE: EPA = U.S. Environmental Protection Agency  
µg/m3 = micrograms per cubic meter  
U = The analyte was analyzed for, but was not detected above the sample reporting limit.  
J = Reported value is an estimate.  
The analytical data results provided by Air Toxics, LTD.  
Data validation completed by Environmental Data Services, Inc.



TABLE 2 VAPOR INTRUSION MONITORING ANALYTICAL DATA

Parameter List EPA Method TO-15	Property ID	Structure 38									
	Sample ID	C755012A-SS-38		C755012A-BA-38		C755012A-OA-38		C755012A-SS-38-0511		C755012A-BA-38-0511	
	Lab ID	1012126BR1-28A/28B		1012126BR1-27A/27B		1012126BR1-29A/29B		1105141B-14A/14B		1105141B-14A/14B	
	Sample Type	Sub-slab Vapor		Basement Indoor Air		Outdoor Air		Sub-slab Vapor		Basement Indoor Air	
	Sample Date	12/2/2010		12/2/2010		12/2/2010		5/5/2011		5/5/2011	
Carbon Tetrachloride	(µg/m3)	0.32		0.38		0.43		0.46		0.46	
1,1- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.57)	U	(<0.61)	U	(<0.52)	U	(<0.63)	U
trans-1,2- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.57)	U	(<0.61)	U	(<0.52)	U	(<0.63)	U
cis-1,2- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.57)	U	(<0.61)	U	(<0.52)	U	(<0.63)	U
Tetrachloroethene	(µg/m3)	27		8.8		(<0.52)	U	14		11.0	
1,1,1- Trichloroethane	(µg/m3)	(<0.38)	U	0.62		(<0.42)	U	(<0.35)	U	(<0.43)	U
Trichloroethene	(µg/m3)	0.36		0.62		(<0.17)	U	1.9		2.2	
Vinyl Chloride	(µg/m3)	0.086	U	(<0.037)	U	(<0.040)	U	(<0.033)	U	(<0.040)	U
Parameter List EPA Method TO-15	Property ID	Structure 38									
	Sample ID	C755012A-OA-33-0511		C755012A-SS-38-0212		C755012A-BA-38-0212		C755012A-OA-38			
	Lab ID	1105141A-09A/09B		1202298-05A/05B		1202298-04A/04B		1202298-06A/06B			
	Sample Type	Outdoor Air		Sub-slab Vapor		Basement Indoor Air		Outdoor Air			
	Sample Date	5/5/2011		2/10/2012		2/10/2012		2/10/2012			
Carbon Tetrachloride	(µg/m3)	0.54		0.42		0.45		0.49			
1,1- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.68)	U	(<0.63)	U	(<0.58)	U		
trans-1,2- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.68)	U	(<0.63)	U	(<0.58)	U		
cis-1,2- Dichloroethene	(µg/m3)	(<0.56)	U	(<0.68)	U	(<0.63)	U	(<0.58)	U		
Tetrachloroethene	(µg/m3)	(<0.48)	U	27		4.7		(<0.50)	U		
1,1,1- Trichloroethane	(µg/m3)	(<0.38)	U	(<0.47)	U	0.86		(<0.40)	U		
Trichloroethene	(µg/m3)	(<0.15)	U	0.28		0.66		(<0.16)	U		
Vinyl Chloride	(µg/m3)	(<0.036)	U	(<0.044)	U	(<0.040)	U	(<0.037)	U		

TABLE 3 POST-MITIGATION ENHANCEMENT VAPOR INTRUSION ANALYTICAL DATA

Parameter List EPA Method TO-15	Property ID	Structure 35 <sup>(a)</sup>											
	Sample ID	C755012A-BA-35		C755012A-OA-38		C755012A-BA-35-0511		C755012A-BA-35A-0511		C755012A-OA-33-0511		C755012A-VTA-35	
	Lab ID	1012126BR1-21A/21B		1012126BR1-29A/29B		1105141A-04A/04B		1105141A-05A/05B		1105141A-09A/09B		1494	
	Sample Type	Basement Indoor Air		Outdoor Air		Basement Indoor Air		Basement Indoor Air		Outdoor Air		Sub-Slab Vapor	
	Sample Date	12/1/2010		12/2/2010		5/5/2011		5/5/2011		5/5/2011		6/10/2011	
Carbon Tetrachloride	(µg/m <sup>3</sup> )	0.43		0.43		0.55		0.55		0.54		0.39	
1,1- Dichloroethene	(µg/m <sup>3</sup> )	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	2.80	
trans-1,2- Dichloroethene	(µg/m <sup>3</sup> )	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	(<1.1)	U
cis-1,2- Dichloroethene	(µg/m <sup>3</sup> )	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	9.0	U
Tetrachloroethene	(µg/m <sup>3</sup> )	1.3		(<0.52)	U	1.1		2.6		(<0.48)	U	33.0	
1,1,1- Trichloroethane	(µg/m <sup>3</sup> )	(<0.37)	U	(<0.42)	U	(<0.46)	U	(<0.45)	U	(<0.38)	U	2.4	
Trichloroethene	(µg/m <sup>3</sup> )	0.36		(<0.17)	U	0.83		5.4		(<0.15)	U	16	
Vinyl Chloride	(µg/m <sup>3</sup> )	(<0.035)	U	(<0.040)	U	(<0.043)	U	(<0.42)	U	(<0.036)	U	(<0.45)	UJ

Parameter List EPA Method TO-15	Property ID	Structure 35 <sup>(a)</sup>											
	Sample ID	C755012A-Field Blank		C755012A-BA-35-0212		C755012A-BA-DUP-0212		C755012A-OA-38					
	Lab ID	1495		1202298-07A/07B		1202298-08A/08B		1202298-06A/06B					
	Sample Type	QA/QC - Field Blank		Basement Indoor Air		Basement Indoor Air Duplicate		Outdoor Air					
	Sample Date	6/10/2011		2/10/2012		2/10/2012		2/10/2012					
Carbon Tetrachloride	(µg/m <sup>3</sup> )	(<0.1)	U	0.52		0.65	J	0.49					
1,1- Dichloroethene	(µg/m <sup>3</sup> )	(<0.2)	U	(<0.60)	U	(<0.63)	U	(<0.58)	U				
trans-1,2- Dichloroethene	(µg/m <sup>3</sup> )	(<0.1)	U	(<0.60)	U	(<0.63)	U	(<0.58)	U				
cis-1,2- Dichloroethene	(µg/m <sup>3</sup> )	(<0.1)	U	(<0.60)	U	(<0.63)	U	(<0.58)	U				
Tetrachloroethene	(µg/m <sup>3</sup> )	(<0.1)	U	2.0		1.9		(<0.50)	U				
1,1,1- Trichloroethane	(µg/m <sup>3</sup> )	(<0.1)	U	(<0.41)	U	(<0.43)	U	(<0.40)	U				
Trichloroethene	(µg/m <sup>3</sup> )	(<0.2)	U	1.1		1.4	J	(<0.16)	U				
Vinyl Chloride	(µg/m <sup>3</sup> )	(<0.2)	U	(<0.039)	U	(<0.040)	U	(<0.037)	U				

(a) Basement Air Sample BA-35 and BA-35-0511 collected from unfinished portion of basement; basement air sample BA-35A-0511 collected from finished portion of basement. VTA Sample collected 6/10/2011 was located beneath observed floor drain within finished portion of basement. Basement indoor air sample and duplicate sample were collected two days after repairing and sealing the floor drain and cracks observed in basement concrete slab on 2/10/2012.

NOTE: EPA = U.S. Environmental Protection Agency  
µg/m<sup>3</sup> = micrograms per cubic meter  
U = The analyte was analyzed for, but was not detected above the sample reporting limit.  
QA/QC = Quality Assurance/Quality Control  
J = Reported value is an estimate.  
The analytical data results provided by Air Toxics, LTD.  
Data validation completed by Environmental Data Services, Inc.

TABLE 3 POST-MITIGATION ENHANCEMENT VAPOR INTRUSION ANALYTICAL DATA

Parameter List EPA Method TO-15	Property ID	Structure 39											
	Sample ID	C755012A-BA-39		C755012A-OA-38		C755012A-BA-39		C755012A-OA-33-0511		C755012A-BA-39-0212		C755012A-OA-39-0212	
	Lab ID	1012126BR1-30A/30B		1012126BR1-29A/29B		1105141B-02A/02B		1105141A-09A/09B		1202465-03A/03B		1202465-04A/04B	
	Sample Type	Basement Indoor Air		Outdoor Air		Basement Indoor Air		Outdoor Air		Basement Indoor Air		Outdoor Air	
	Sample Date	12/2/2010		12/2/2010		5/5/2011		5/5/2011		2/17/2012		2/17/2012	
Carbon Tetrachloride	(µg/m3)	0.44		0.43		0.50		0.54		0.57		0.53	
1,1- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.61)	U	(<0.65)	U	(<0.56)	U	(<0.58)	U	(<0.54)	U
trans-1,2- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.61)	U	(<0.65)	U	(<0.56)	U	(<0.58)	U	(<0.54)	U
cis-1,2- Dichloroethene	(µg/m3)	(<0.64)	U	(<0.61)	U	(<0.65)	U	(<0.56)	U	(<0.58)	U	(<0.54)	U
Tetrachloroethene	(µg/m3)	4.1		(<0.52)	U	3.0		(<0.48)	U	8.4		(<0.46)	U
1,1,1- Trichloroethane	(µg/m3)	(<0.44)	U	(<0.42)	U	(<0.45)	U	(<0.38)	U	(<0.40)	U	(<0.37)	U
Trichloroethene	(µg/m3)	(<0.17)	U	(<0.17)	U	(<0.18)	U	(<0.15)	U	(<0.16)	U	(<0.15)	U
Vinyl Chloride	(µg/m3)	(<0.041)	U	(<0.040)	U	(<0.042)	U	(<0.036)	U	(<0.038)	U	(<0.035)	U

TABLE 3 POST-MITIGATION ENHANCEMENT VAPOR INTRUSION ANALYTICAL DATA

Parameter List EPA Method TO-15, Passive Ultra III & TO-17	Property ID	Structure 43									
	Sample ID	C755012A-SS-43		C755012A-BA-43		C755012A-ULTRA-43		C755012A-RAD-43		C755012A-OA-44	
	Lab ID	1012390AR1-06A/06B		1012390AR1-05A/05B		1012261B-04A		1012261A-03A		1012390AR1-09A/09B	
	Sample Type	Sub-slab Vapor		Basement Indoor Air		Basement Indoor Air		Basement Indoor Air		Outdoor Air	
	Sample Date	12/7/2010		12/7/2010		12/7/2010		12/7/2010		12/7/2010	
Carbon Tetrachloride	(µg/m3)	<1.2)	U	0.41		0.28		1.4	J	0.32	
1,1- Dichloroethene	(µg/m3)	<3.9)	U	<0.57)	U	<0.14)	U	<0.044)	U	<0.50)	U
trans-1,2- Dichloroethene	(µg/m3)	<3.9)	U	<0.57)	U	<0.14)	U	<0.044)	U	<0.50)	U
cis-1,2- Dichloroethene	(µg/m3)	18		<0.57)	U	<0.12)	U	0.070	J	<0.50)	U
Tetrachloroethene	(µg/m3)	93		<0.49)	U	0.32		0.58		<0.42)	U
1,1,1- Trichloroethane	(µg/m3)	93		0.58		0.81		1.3		<0.34)	U
Trichloroethene	(µg/m3)	2,100		0.37		0.42		0.46		0.35	
Vinyl Chloride	(µg/m3)	<0.25)	U	0.066		<0.052)	U	<0.031)	U	<0.032)	U

Parameter List EPA Method TO-15	Property ID	Structure 43									
	Sample ID	C755012A-BA-43-0711		C755012A-OA-43		C755012A-BA-43-0212		C755012A-OA-43-0212			
	Lab ID	1107285-03A/03B		1012390AR1-05A/05B		1202465-01A/01B		1202465-02A/02B			
	Sample Type	Basement Indoor Air		Outdoor Air		Basement Indoor Air		Outdoor Air			
	Sample Date	7/14/2011		7/14/2011		2/17/2012		2/17/2012			
Carbon Tetrachloride	(µg/m3)	0.44		0.53		0.52		0.58			
1,1- Dichloroethene	(µg/m3)	<0.74)	U	<0.55)	U	<0.62)	U	<0.57)	U		
trans-1,2- Dichloroethene	(µg/m3)	<0.74)	U	<0.55)	U	<0.62)	U	<0.57)	U		
cis-1,2- Dichloroethene	(µg/m3)	<0.74)	U	<0.55)	U	<0.62)	U	<0.57)	U		
Tetrachloroethene	(µg/m3)	<0.63)	U	<0.47)	U	<0.53)	U	<0.49)	U		
1,1,1- Trichloroethane	(µg/m3)	0.52		<0.38)	U	1.0		<0.39)	U		
Trichloroethene	(µg/m3)	0.53		<0.15)	U	0.24		<0.15)	U		
Vinyl Chloride	(µg/m3)	0.20		<0.036)	U	0.063		<0.37)	U		

**Appendix A**

**Daily Field Reports**

**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Monday Date: 6 February 2012**

Temperature: (F) 30 (am) 50 (pm)

Wind Direction: SW (am) SW (pm)

Weather: (am) sunny/overcast  
(pm) sunny

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

Arrive at site 1000 (am)

Leave site: 415 (pm)

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan? Yes ( ) No (x )  
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels? Soil Yes ( ) n/a ( x ) \* No ( )  
Waters Yes ( ) n/a ( x ) \* No ( )  
Air Yes ( ) n/a ( x ) \* No ( )

- If No, provide comments

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )  
Photos Taken: Yes ( x ) No ( )

**DESCRIPTION OF DAILY WORK PERFORMED:**

David Crandall with EA onsite 1000am. Bob Gannon and John Stutzke with Aztech ready to enter Structure 35 to assess floor drain in finished portion of basement and begin process of sealing floor drain to prevent vapors from infiltrating to basement through drain.

Met with homeowner and inspected drain. Determined that best course of action would be to connect clay drain pipe beneath floor drain, fill in void with gravel and seal at floor surface with hydraulic cement to eliminate vapor intrusion potential.

At 1100, NYSDEC representative and EA PM arrive onsite. Based on their observations and discussions, determined that 5" to 4" fernco will be utilized to connect 4" pvc line between the 2 sections of clay pipe. After Aztech left site to purchase required parts, the clay drain line was cleared out and connected with ferncos/PVC piping. Void under floor was filled completed with pea gravel and hydraulic cement was utilized to seal the former drain location.

In addition. The carpeting was removed from the living area in the basement and major cracks observed in the floor were sealed by Aztech. Carpeting in this area was replaced after sealing of floor cracks.

EA and Aztech left site at 415pm.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

Contractor Sample ID:	DEC Sample ID:	Description:
_____	_____	_____
_____	_____	_____

## DAILY OBSERVATION REPORT

Day: Monday Date: 6 February 2012

### CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: David Crandall (Scientist) and Bob Casey (Project Manager)

(Name of Subcontractor) personnel: Bob Gannon and John Stutzke with Aztech (mitigation contractors)

(Name of contractor) equipment:

(\*Indicates active equipment)

Other Subcontractors:

### VISITORS TO SITE:

1. Karen Cahill (NYSDEC Representative)

### PROJECT SCHEDULE ISSUES:

### PROJECT BUDGET ISSUES:

None.

### ITEMS OF CONCERN:

### COMMENTS:

### ATTACHMENT(S) TO THIS REPORT:

### SITE REPRESENTATIVE:

Name: *David Crandall*

cc:

DAILY PHOTOLOG



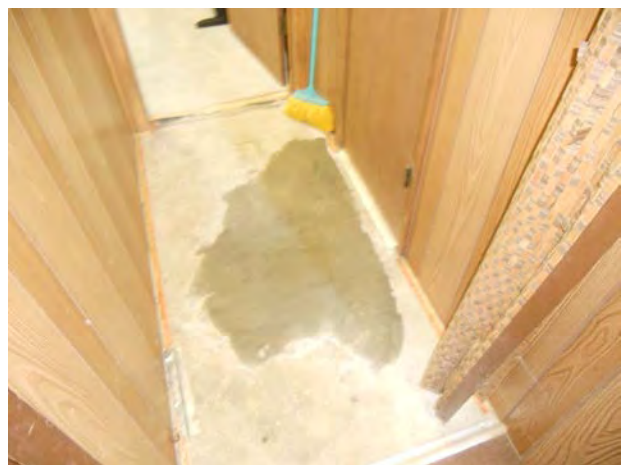
Cleaning out of floor drain/drain tile area



Connection of clay drain tile with PVC/Ferncos



Gravel placed to fill void area where drain was previously located.



Hydraulic cement seal over former floor drain.



Sealed cracks beneath carpeting in living area.



**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Tuesday Date: 7 February 2012**

Temperature: (F) 25 (am) 35 (pm)

Wind Direction: NW (am) NW (pm)

Weather: (am) clear  
(pm) overcast

Arrive at site 715 (am)

Leave site: 305 (pm)

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No (x )

Are monitoring results at acceptable levels?

Soil

Yes ( ) n/a ( x ) \* No ( )

Waters

Yes ( ) n/a ( x ) \* No ( )

Air

Yes ( ) n/a ( x ) \* No ( )

- *If No, provide comments*

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( x ) No ( )

**DAILY OBSERVATION REPORT**  
**DESCRIPTION OF DAILY WORK PERFORMED:**

**Day: Tuesday    Date: 7 February 2012**

David Crandall with EA onsite 715am. Bob Gannon and John Stutzke with Aztech and R. Casey with EA ready to enter Structure 43 to perform pressure field extension testing for existing SSDS and determine if second extraction point should be added to system.

Based on conversations with homeowner, a second point can only be added if in utility room area in south east corner of home. Also, homeowner noted that the fan on the east side of building was creating excessive vibrations in the home (particularly kitchen cabinets). To address this situation, Aztech removed a bracket near the fan which was observed to be tight to the home's exterior wall and causing the excess vibration.

Based on PFE testing, limited to no communication was observed within the rear portion of the home, necessitating the installation of a second extraction point. PFE Readings (in in. of water/column) prior to point installation are shown below:

TP-1	-0.000
TP-2	-0.025
TP-3	-0.008
TP-4	-0.006
TP-5	-0.003
TP-6	-0.000
TP-7	-0.000
TP-8	-0.005

Prior to initiation of SSDS modifications at Structure 43, EA and Aztech went to structure 35 to assess the hydraulic cement seal. Based on the seal and at the satisfaction of the homeowner, the carpeting over the former floor drain was reinstalled and supplemental indoor air testing was set up for February 9-10.

Per conversation with NYSDEC Rep, the second extraction point was located in the utility room, towards the rear portion of the home, in hopes of improving communication beneath the slab which is known to site on bedrock. The second extraction point was installed through 2.5" of concrete, and 10.5" of bedrock with was able to be cored out by Aztech. 2<sup>nd</sup> extraction point was installed 13ft. from first extraction point. The extraction point was installed and tied in with existing line leading the fan from EP-1. Once system piping was installed, system was switched on. Will return to structure 43 on 2/8/12 to perform additional PFE testing to assess initial performance of EP-2.

During SSDS installation by Aztech, EA performed review of chemical storage in basement of home, EA noted some chemicals, including old Rustoleum®, shoe polishes, etc. that may contain Chemicals of Concern.

Offsite at 305pm.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

**Contractor Sample ID:**

**DEC Sample ID:**

**Description:**

_____	_____	_____
_____	_____	_____

**DAILY OBSERVATION REPORT**

**Day: Tuesday    Date: 7 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist) and Bob Casey (Project Manager)

*(Name of Subcontractor) personnel:* Bob Gannon and John Stutzke with Aztech (mitigation contractors)

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1.

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

cc:

**DAILY OBSERVATION REPORT  
DAILY PHOTOLOG**

**Day: Tuesday    Date: 7 February 2012**



Concrete/Bedrock cored for EP-2



Screen and pea gravel for EP-2



Seal and EP-2 extension



Tie-in between EP-2 and main line.



EP-2 in utility area.



Suspected chemicals of concern (note Rustleum© from 1982).

**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Wednesday Date: 8 February 2012**

Temperature: (F) 20 (am) 31 (pm)

Wind Direction: WNW (am) WNW (pm)

Weather: (am) overcast

(pm) overcast

Arrive at site 700 (am)

Leave site: 430 (pm)

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No (x )

Are monitoring results at acceptable levels?

Soil

Yes ( ) n/a ( x ) \* No ( )

Waters

Yes ( ) n/a ( x ) \* No ( )

Air

Yes ( ) n/a ( x ) \* No ( )

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( x ) No ( )

- *If No, provide comments*

**DAILY OBSERVATION REPORT**  
**DESCRIPTION OF DAILY WORK PERFORMED:**

**Day: Wednesday    Date: 8 February 2012**

David Crandall with EA onsite 700am. Bob Gannon and John Stutzke with Aztech ready to enter Structure 39 to perform pressure field extension testing for existing SSDS and determine if second extraction point should be added to system. Based on conversations with homeowner, work will be able to start at 1030am.

In the meantime, performed PFE testing at Structure 43 following system operation overnight. (\* - water in point)

Test Point	Manometer Reading	Distance to EP-1	Distance to EP-2
1	0.000	14.3	25.5
2	-0.003 - -0.015	12.5	24.5
3	-0.007 - -0.009	10.75	21.5
4	-0.005 - -0.007	7	11
5*	-0.003	13	8
6*	-0.001 - -0.004	14	4
7	-0.002	17	7
8	-0.008	6	8
9*	-0.001	9	13.5
10*	0.000 - -0.023	14.5	9.5

Returned to Structure 39 to begin PFE testing/SSDS upgrades. Based on conversations with homeowner, a second extraction point can only be added underneath stairs to tie in to existing piping. PFE testing

TP-1	-0.004
TP-2	-0.118
TP-3	0.000
TP-4	0.000
TP-5	-0.006

EP-2 was installed in the agreed area, but core revealed that hole was partially on footer for chimney/stairs in middle of home. Aztech removed gravel beneath main floor and got to beneath footer to ensure communication beneath all portions of the sub-slab environment. Extraction point screening was installed to depth of footer and peastone filled voids prior to sealing point and beginning to tie in with existing system piping. When EP-2 was set to be installed with existing piping, Aztech noted that existing piping is an odd size of PVC (4 inch inner diameter, but not schedule 40), as such, they need to locate a section "T" in order to connect new extraction point. Aztech will attempt to find necessary parts to complete system upgrades on 2/9/12

Offsite at 430pm.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

**Contractor Sample ID:**

**DEC Sample ID:**

**Description:**


**DAILY OBSERVATION REPORT**

**Day: Wednesday    Date: 8 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist)

*(Name of Subcontractor) personnel:* Bob Gannon and John Stutzke with Aztech (mitigation contractors)

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1.

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

cc:



DAILY PHOTOLOG



Concrete cored for EP-2



Screen and pea gravel for EP-2



Seal and EP-2 extension



Piping around water heater and chimney to existing line.



Extraction point and piping around water heater.





**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Thursday Date: 9 February 2012**

Temperature: (F) 20 (am) 41 (pm)

Wind Direction: W (am) W (pm)

Weather: (am) overcast  
(pm) sunny

Arrive at site 730 (am)

Leave site: 430 (pm)

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No (x )

Are monitoring results at acceptable levels?

Soil

Yes ( ) n/a ( x ) \* No ( )

Waters

Yes ( ) n/a ( x ) \* No ( )

Air

Yes ( ) n/a ( x ) \* No ( )

- If No, provide comments

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( x ) No ( )

**DAILY OBSERVATION REPORT**  
**DESCRIPTION OF DAILY WORK PERFORMED:**

**Day: Thursday    Date: 9 February 2012**

David Crandall with EA onsite 730am. Bob Gannon and John Stutzke with Aztech ready to enter Structure 39 completed system upgrade. Access granted to structure at 830am. New T connected to existing SSDS and tied in with EP-2 to complete system upgrade. Upon turning system on, manometer readings were collected.

Test Point	Manometer Reading	Distance to EP-1	Distance to EP-2
1	-0.011	16	8.5
2	-0.081	5	17
3	-0.006	16	13
4	-0.012	18	6.5
5	-0.007	14	18.5

At 1000am, EA to Structure 37 to complete additional indoor air sampling. Sub-Slab Vapor, Basement Air, and Outdoor Air samples collected in locations similar to previous sampling events.

During EA sampling at Structure 37, Aztech installed U-Tube Manometers on new extraction points in Structures 43 and 39, and also replaced old U-Tube Manometer that was no longer functional on EP-1 in Structure 39.

NYSDEC Representative onsite at 1045am and observed system work completed in Structure 43. Upon approval of work, Aztech left site for week.

1100am, EA and NYSDEC rep to Structure 38 for additional indoor air sampling. Sub-Slab Vapor, Basement Air, and Outdoor Air samples collected in locations similar to previous sampling events.

1230pm, EA and NYSDEC to Structure 35 for additional indoor air sampling, Basement Air, Basement Air Duplicate collected from finished portion of basement after sealing of floor drain and cracks and allowing basement to "air out" for several days prior to sampling.

Following sample setup at Structure 35, EA and NYSDEC to Structure 39 to view system upgrades completed. Also removed some suspect chemicals and placed in bin outside prior to sampling to be completed February 16-17. U-Tube readings 1.1 in. W/C at EP1 and EP2.

EA and NYSDEC then to Structure 43 to remove some suspect chemicals and place in bin. EA to contact homeowner and ask to remove bin from basement prior to sampling to be completed February 16-17. U-Tube Readings 2.4 in. W/C at EP1 and 2.5 in. W/C at EP2.

Offsite at 200pm.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

**Contractor Sample ID:**

**DEC Sample ID:**

**Description:**

Structure 37 (SS-37, BA-37, OA-37)		Sub-slab, Basement Air, and Outdoor air resamples for TO-15
Structure 38 (SS-38, BA-38, OA-38)		Sub-slab, Basement Air, and Outdoor air resamples for TO-15
Structure 35 (BA-35, BA-Dup)		Basement Air, and Basement Air Duplicate resamples for TO-15

**DAILY OBSERVATION REPORT**

**Day: Thursday    Date: 9 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist)

*(Name of Subcontractor) personnel:* Bob Gannon and John Stutzke with Aztech (mitigation contractors)

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1. Karen Cahill, NYSDEC

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

cc:

**DAILY OBSERVATION REPORT  
DAILY PHOTOLOG**

**Day: Thursday    Date: 9 February 2012**



Connection of EP-2 to existing SSDS line in Structure 39



Resealed sump pit in Structure 39.



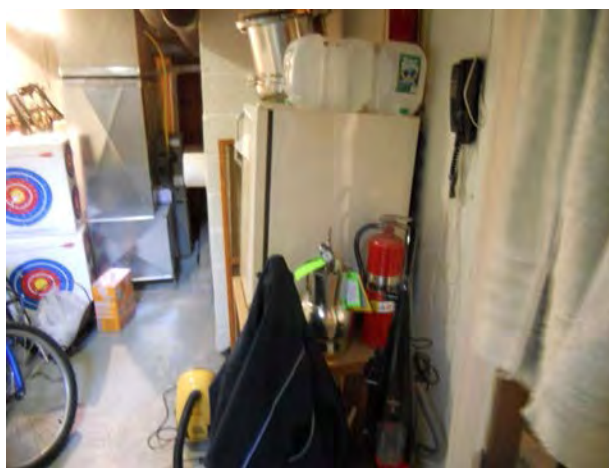
Structure 37 – Basement Air and Sub-Slab Vapor



Structure 37 – Outdoor Air



Structure 38 – Sub-Slab Vapor



Structure 38 – Basement Air



Outdoor Air Sample – Structure 38



Basement Air Sample/Duplicate – Structure 35

**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Friday Date: 10 February 2012**

Temperature: (F) 25 (am) 34 (pm)

Wind Direction: SW (am) SW (pm)

Weather: (am) sunny

(pm) sunny

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

Arrive at site 930 (am)

Leave site: 1230 (pm)

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No (x )

Are monitoring results at acceptable levels?

Soil

Yes ( ) n/a ( x ) \* No ( )

Waters

Yes ( ) n/a ( x ) \* No ( )

Air

Yes ( ) n/a ( x ) \* No ( )

- If No, provide comments

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( ) No ( x )

**DESCRIPTION OF DAILY WORK PERFORMED:**

David Crandall with EA onsite 930am. Indoor Air Samples collected from Structure 35, 37, and 38. No Additional work completed onsite today. Samples were shipped out via FEDEX to Air Toxics.

Offsite 1230pm.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

**Contractor Sample ID:**

**DEC Sample ID:**

**Description:**

Structure 37 (SS-37, BA-37, OA-37)		Sub-slab, Basement Air, and Outdoor air resamples for TO-15
Structure 38 (SS-38, BA-38, OA-38)		Sub-slab, Basement Air, and Outdoor air resamples for TO-15
Structure 35 (BA-35, BA-Dup)		Basement Air, and Basement Air Duplicate resamples for TO-15



**DAILY OBSERVATION REPORT**

**Day: Friday    Date: 10 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist)

*(Name of Subcontractor) personnel:*

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1.

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

cc:



**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Friday Date: 16 February 2012**

Temperature: (F) 36 (am) NA (pm)

Wind Direction: SW (am) NA (pm)

Weather: (am) Light Rain/Overcast  
(pm) NA

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

Arrive at site 1035 (am)

**Ithaca, New York**

Leave site: 1130 (am)

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan?  
(If yes, list the deviation under items for concern)

Yes ( ) No (x )

Are monitoring results at acceptable levels?

Soil Yes ( ) n/a ( x ) \* No ( )

Waters Yes ( ) n/a ( x ) \* No ( )

Air Yes ( ) n/a ( x ) \* No ( )

- *If No, provide comments*

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( ) No ( x )

**DESCRIPTION OF DAILY WORK PERFORMED:**

David Crandall and Chris Schroer with EA onsite 1035am. Proceeded to Structure 43 where one basement air sample and one outdoor air sample was set up following SSDS operation for 1 week after system upgrades (bin of sorted chemicals selected for removal by EA/NYSDEC) had been previously cleared from basement.

Following setup at Structure 43, proceeded on to structure 39, where one basement air sample and one outdoor air sample was set up following SSDS operation for 1 week after system upgrades.

Offsite 1130am.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

<b>Contractor Sample ID:</b>	<b>DEC Sample ID:</b>	<b>Description:</b>
Structure 43(BA-43-0212, OA-43-0212)		Basement Air, and Outdoor air resamples for TO-15
Structure 39 (BA-39-0212, OA-39-0212)		Basement Air, and Outdoor air resamples for TO-15

**DAILY OBSERVATION REPORT**

**Day: Friday    Date: 16 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist), Chris Schroer (Scientist)

*(Name of Subcontractor) personnel:*

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1.

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

cc:

Daily Photolog



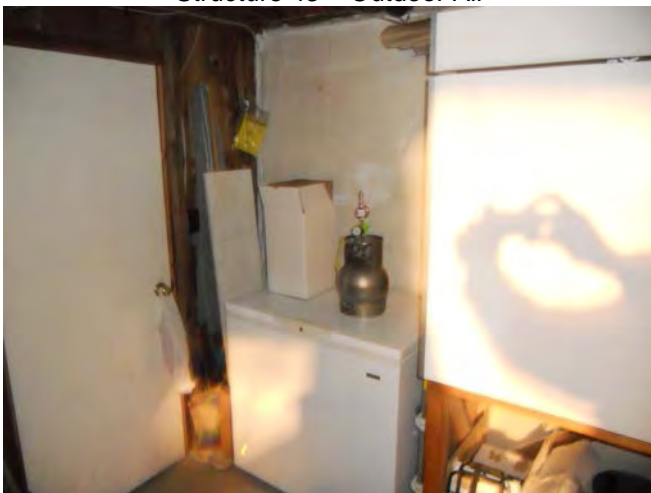
Structure 43 – Basement Air



Structure 39 – Outdoor Air



Structure 43 – Outdoor Air



Structure 39 – Basement Air

**DAILY OBSERVATION REPORT**



NYSDEC

**Day: Friday Date: 17 February 2012**

Temperature: (F) 41 (am) NA (pm)

Wind Direction: SW (am) NA (pm)

Weather: (am) Sunny

(pm) NA

Arrive at site 1030 (am)

Leave site: 1130 (am)

**Ithaca Offsite**

**NYSDEC Site # C755012A**

**Contract # D-00438-19**

**Ithaca, New York**

**HEALTH & SAFETY:**

Are there any changes to the Health & Safety Plan? Yes ( ) No ( x )  
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels? Soil Yes ( ) n/a ( x ) \* No ( )  
Waters Yes ( ) n/a ( x ) \* No ( )  
Air Yes ( ) n/a ( x ) \* No ( )

- If No, provide comments

**OTHER ITEMS:**

Site Sketch Attached: Yes ( ) No ( x )

Photos Taken: Yes ( ) No ( x )

**DESCRIPTION OF DAILY WORK PERFORMED:**

David Crandall and Chris Schroer with EA onsite 1030am. Proceeded to Structure 43 where one basement air sample and one outdoor air sample was collected following 24-hour sample period.

Following sample pickup at Structure 43, proceeded on to structure 39, where one basement air sample and one outdoor air sample collected following 24-hour sample period.

Note: both outdoor air samples registered low final reading (-0.5 in. Hg) when checked before 24-hour period ended.

Offsite 1130am.

**PROJECT TOTALS:**

**SAMPLING (Soil/Water/Air)**

<b>Contractor Sample ID:</b>	<b>DEC Sample ID:</b>	<b>Description:</b>
Structure 43(BA-43-0212, OA-43-0212)		Basement Air, and Outdoor air resamples for TO-15
Structure 39 (BA-39-0212, OA-39-0212)		Basement Air, and Outdoor air resamples for TO-15

**DAILY OBSERVATION REPORT**

**Day: Friday    Date: 17 February 2012**

**CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:**

*(Name of contractor) personnel:* David Crandall (Scientist), Chris Schroer (Scientist)

*(Name of Subcontractor) personnel:*

*(Name of contractor) equipment:*

*(\*Indicates active equipment)*

*Other Subcontractors:*

**VISITORS TO SITE:**

1.

**PROJECT SCHEDULE ISSUES:**

**PROJECT BUDGET ISSUES:**

None.

**ITEMS OF CONCERN:**

**COMMENTS:**

**ATTACHMENT(S) TO THIS REPORT:**

**SITE REPRESENTATIVE:**

Name: *David Crandall*

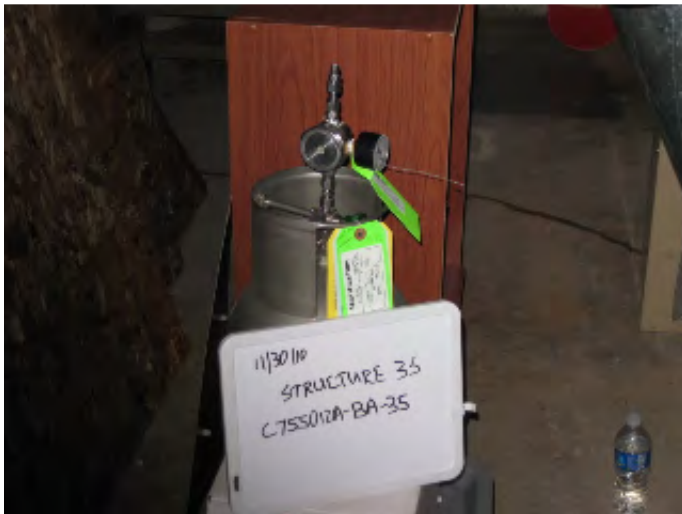
cc:

## **Appendix B**

### **Indoor Air/Sub-slab Vapor Sampling Forms**



Indoor Air Sampling Photolog – Axiohm OU2 Site – December, 2010



Basement Air Sample – Structure 35



Chemical Storage – Structure 35



Chemical Storage – Structure 35



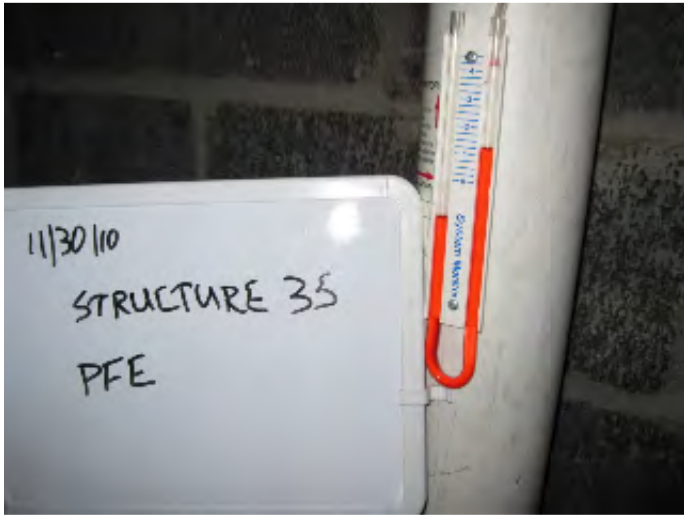
Chemical Storage – Structure 35



Chemical Storage – Structure 35



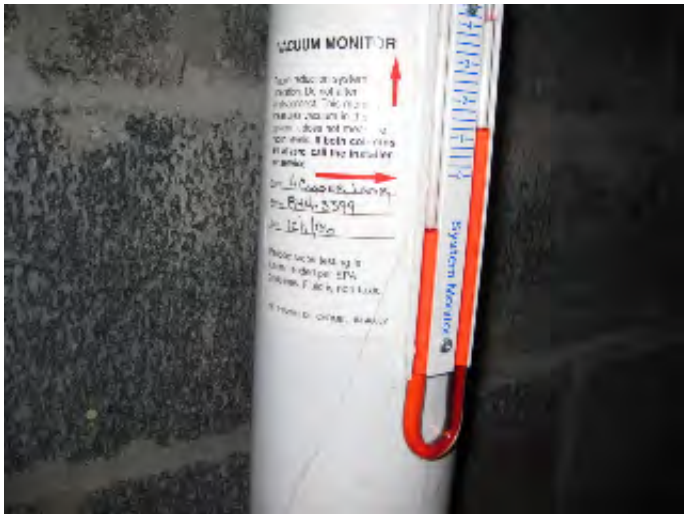
Chemical Storage – Structure 35



Radon System – Structure 35



Radon System – Structure 35



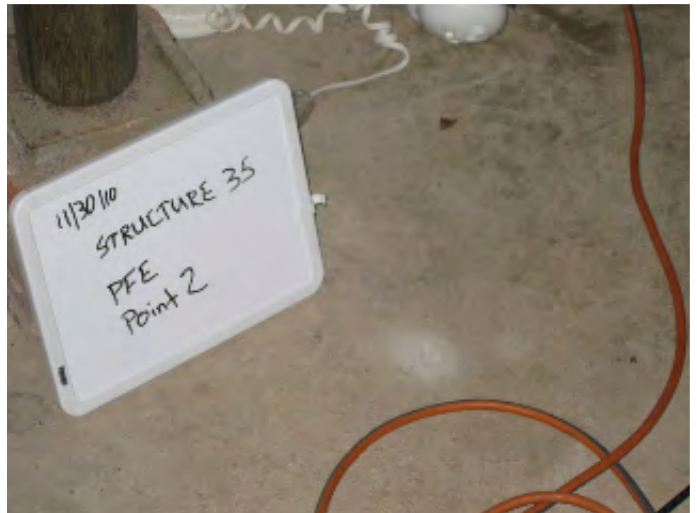
Radon System – Structure 35



Radon System – Structure 35

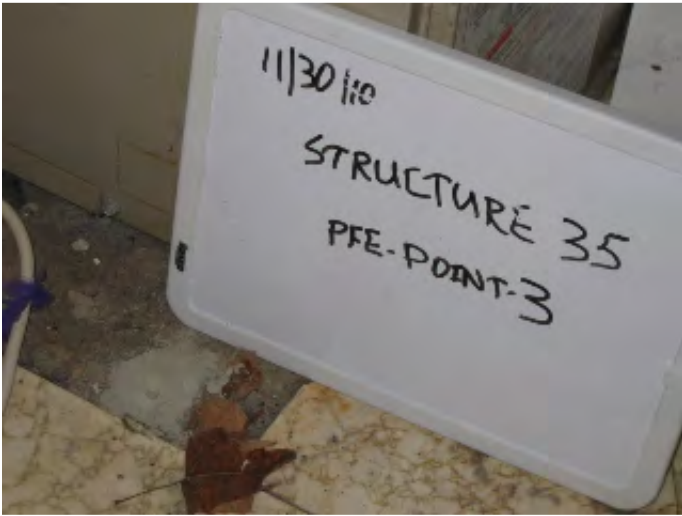


PFE point 1 – Structure 35



PFE point 2 – Structure 35





PFE point 3 – Structure 35

## Indoor Air Sampling Photolog – Ithaca Off-Site – May 2011



Basement Air Sample – Structure 35



Basement Air Sample – Finished Portion –Structure 35



Basement Air and Radon Sample –Structure 35



**Indoor Air Sampling Photolog – Ithaca Off-Site – February 2012**



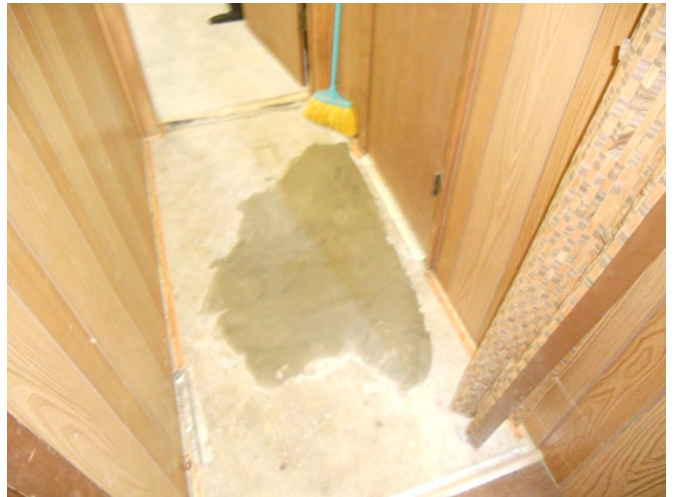
Unsealed, open floor drain – Structure 35



Floor drain reconnected –Structure 35



Peastone fill in former floor drain –Structure 35



Sealed former floor drain –Structure 35




Sealed floor cracks –Structure 35



Basement air sampling – Structure 35



### FIELD AIR SAMPLING FORM

	EA Engineering and Its Affiliate EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211	Project #: 14368.19 0002 Project Name: Ithaca OffSite Location: Ithaca NY Project Manager: R. Casey/K. Cahill
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**Sample Location Information:**

Site ID Number:				Sampler(s):	D GRANDALL
PID Meter Used: (Model, Serial #)				Building I.D. No.:	Structure 35

**SUMMA Canister Record:** Duplicate

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.: 40441	Flow Regulator No.: 40107	Flow Regulator No.:	Flow Regulator No.:
Canister Serial No.: 1586	Canister Serial No.: 10767	Canister Serial No.: <del>FB</del>	Canister Serial No.:
Start Date/Time: 2/9/12 12:49	Start Date/Time: 2/9/12 12:49	Start Date/Time:	Start Date/Time:
Start Pressure: (inches Hg) -29.5	Start Pressure: (inches Hg) -30	Start Pressure: (inches Hg):	Start Pressure: (inches Hg):
Stop Date/Time: 2/10/12 12:14	Stop Date/Time: 2/10/12 12:14	Stop Date/Time:	Stop Date/Time:
Stop Pressure: (inches Hg) -4	Stop Pressure: (inches Hg) -6	Stop Pressure: (inches Hg):	Stop Pressure: (inches Hg):
Sample ID: C755012A-BA-DUP-0212	Sample ID: C755012A-BA-35-0212	Sample ID:	Sample ID:

**Other Sampling Information:**

Story/Level	BSMT	Story/Level	BSMT	Basement or Crawl Space?		Direction from Building	
Room	office.	Room	office.	Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)	53F	Indoor Air Temp	53F	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Barometric Pressure?	-	Barometric Pressure?	-	Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	3.5'	Intake Height Above Floor Level (ft.)	3.5'	If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	
Noticeable Odor?	-	Noticeable Odor?	-	Noticeable Odor?		Noticeable Odor?	
PID Reading (ppb)	0ppb	PID Reading (ppb)	0ppb	PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?	-	Duplicate Sample?	-	Duplicate Sample?		Duplicate Sample?	

**Comments:**

- Sample in same location as previous

-

Sampler Signature:

**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: Ithaca Off-Site  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C755012A	Sampler(s):	DC/SB
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	35

**SUMMA Canister Record:**

Tenant	INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBLAB SOIL GAS	OUTDOOR AIR
	Flow Regulator No.: 40401	Flow Regulator No.: 40351	Flow Regulator No.:	Flow Regulator No.:
	Canister Serial No.: 23992	Canister Serial No.: 9420	Canister Serial No.:	Canister Serial No.:
	Start Date/Time: 5/4/11 1031	Start Date/Time: 5/4/11 1049	Start Date/Time:	Start Date/Time:
	Start Pressure: (inches Hg): 7-30	Start Pressure: (inches Hg): -29.5	Start Pressure: (inches Hg):	Start Pressure: (inches Hg):
	Stop Date/Time: 5/5/11 0933	Stop Date/Time: 5/5/11 0937	Stop Date/Time:	Stop Date/Time:
	Stop Pressure: (inches Hg): -7	Stop Pressure: (inches Hg): -5.5	Stop Pressure: (inches Hg):	Stop Pressure: (inches Hg):
	Sample ID: C755012A-BA-35A	Sample ID: C755012A-BA-35A	Sample ID:	Sample ID:

**Other Sampling Information:** -051

Story/Level	Basement	Story/Level	Basement	Basement or Crawl Space?	Direction from Building
Room	Basement	Room	Basement	Floor Slab Thickness (inches) [if present]	Distance from Building
Indoor Air Temp (°F)	50-60	Indoor Air Temp	50-60	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)
Barometric Pressure?	—	Barometric Pressure?	—	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	5'	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	—	Noticeable Odor?		Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	—	PID Reading (ppb)	—	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	—	Duplicate Sample?	—	Duplicate Sample?	Duplicate Sample?

**Comments:**

Radon set on owner side in living space

owner requested early pickup - spoke w/ Karen.

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS 2106323

Client \_\_\_\_\_

RADON TESTING CORP. OF AMERICA

Resample on Tenant Side. Initial of Radon samples on owner side

Sampler Signature: *[Signature]*



**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: NYSDEC C75012A Offsite Axiohm  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C75012A	Sampler(s):	SM/DC
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	Structure 35

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.:		Flow Regulator No.:	40232	Flow Regulator No.:		Flow Regulator No.:	
Canister Serial No.:		Canister Serial No.:	35996	Canister Serial No.:		Canister Serial No.:	
Start Date/Time:		Start Date/Time:	11/22/10 10:35	Start Date/Time:		Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-2.7	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	11/11/10 15:48	Stop Date/Time:		Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-1.5	Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	C75012A-BA-35	Sample ID:		Sample ID:	

**Other Sampling Information:**

Story/Level	2	Basement or Crawl Space?	Basement	Direction from Building	
Room		Room	basement	Distance from Building	
Indoor Air Temp (°F)		Indoor Air Temp	~50°	Intake Height Above Ground Level (ft.)	
Barometric Pressure?		Barometric Pressure?	NA	Intake Tubing Used?	
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)	~3'	Distance to nearest Roadway	
Noticeable Odor?		Noticeable Odor?	none	Noticeable Odor?	
PID Reading (ppb)		PID Reading (ppb)	0	PID Reading (ppb)	
Duplicate Sample?		Duplicate Sample?	none	Duplicate Sample?	

**Comments:**

\*collected sample on side w/ radon system & sewer piping (11/14)

Sampler Signature:

35

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.

Preparer's Name [Signature] Date/Time Prepared \_\_\_\_\_

Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610

Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A

**1. OCCUPANT: Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: [Redacted]

County: Schuyler

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2. OWNER OR LANDLORD: (Check if same as occupant \_\_\_)**

**Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

[Handwritten mark]

**3. BUILDING CHARACTERISTICS Type of**

**Building:** (Circle appropriate response)

<input checked="" type="radio"/> Residential	<input type="radio"/> School	<input type="radio"/> Commercial/Multi-use
<input type="radio"/> Industrial	<input type="radio"/> Church	Other: _____

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

<input type="radio"/> Ranch	<input type="radio"/> 2-Family	<input type="radio"/> 3-Family
<input type="radio"/> Raised Ranch	<input type="radio"/> Split Level	<input type="radio"/> Colonial
<input type="radio"/> Cape Cod	<input type="radio"/> Contemporary	<input type="radio"/> Mobile Home
<input type="radio"/> Duplex	<input type="radio"/> Apartment House	<input type="radio"/> Townhouses/Condos
<input type="radio"/> Modular	<input type="radio"/> Log Home	Other: <u>2 family colonial</u> <u>164/166</u>

**If multiple units, how many?**

0 **If the property is commercial, type?**

Business Type(s) \_\_\_\_\_  
Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

**Other characteristics:**

Number of floors 3 basement 1st 2nd  
Building age 1940s  
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 patterns and qualitatively describe:**

- Airflow between floors
- Airflow near source
- Outdoor air infiltration
- Infiltration into air ducts



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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawl space slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with \_\_\_\_\_
- e. Concrete floor: unsealed sealed sealed with \_\_\_\_\_
- f. Foundation walls: poured block stone other \_\_\_\_\_
- g. Foundation walls: unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 0-6' (feet)

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

Cracks in floor on 164 side

**6. HEATING, VENTING and AIR CONDITIONING**

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 -  
 Steam radiation - Radiant floor - Electric baseboard - Wood stove -  
 Outdoor wood boiler - Other \_\_\_\_\_

The primary type of fuel used is:

- Natural Gas Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors - Main Floor - Other \_\_\_\_\_

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold 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.

**7. OCCUPANCY**

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

**Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

	104	166
Basement	Storage laundry	
1 <sup>st</sup> Floor	living kitchen	living kitchen
2 <sup>nd</sup> Floor	bedrooms	bedrooms
3 <sup>rd</sup> Floor		
4 <sup>th</sup> Floor		

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y (N)

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)

Y / N / NA

Please specify \_\_\_\_\_

d. Has the building ever had a fire?

Y (N) When? \_\_\_\_\_

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 When & Type? 114 side some painting

k. Is there new carpet, drapes or other textiles?

Y / (N) Where & When? \_\_\_\_\_

l. Have air fresheners been used recently?

Y (N) When & Type? \_\_\_\_\_  
If yes, where vented?

m. Is there a kitchen exhaust fan?

Y (N) \_\_\_\_\_  
If yes, where vented?

n. Is there a bathroom exhaust fan?

(Y) / N both all 3

o. Is there a clothes dryer?

(Y) / N If yes, is it vented outside? (Y) / N both

p. Has there been a pesticide application?

Y (N) When & Type? interior side

Are there odors in the building? Y / N

If yes, please describe:

Do any of the building occupants use solvents at work? Y (N)

Y (N)

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

no -116  
no -114

1930

Is there a radon mitigation system for the building/structure?  Y  N Date of Installation:  
Is the system active or passive? Active/Passive

Feb. 2007 Radon installed

**9. WATER AND SEWAGE**

Water Supply:  Public Water  Drilled Well  Driven Well  Dug Well Other: \_\_\_\_\_

Sewage Disposal:  Public Sewer  Septic Tank  Leach Field  Dry Well Other: \_\_\_\_\_

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

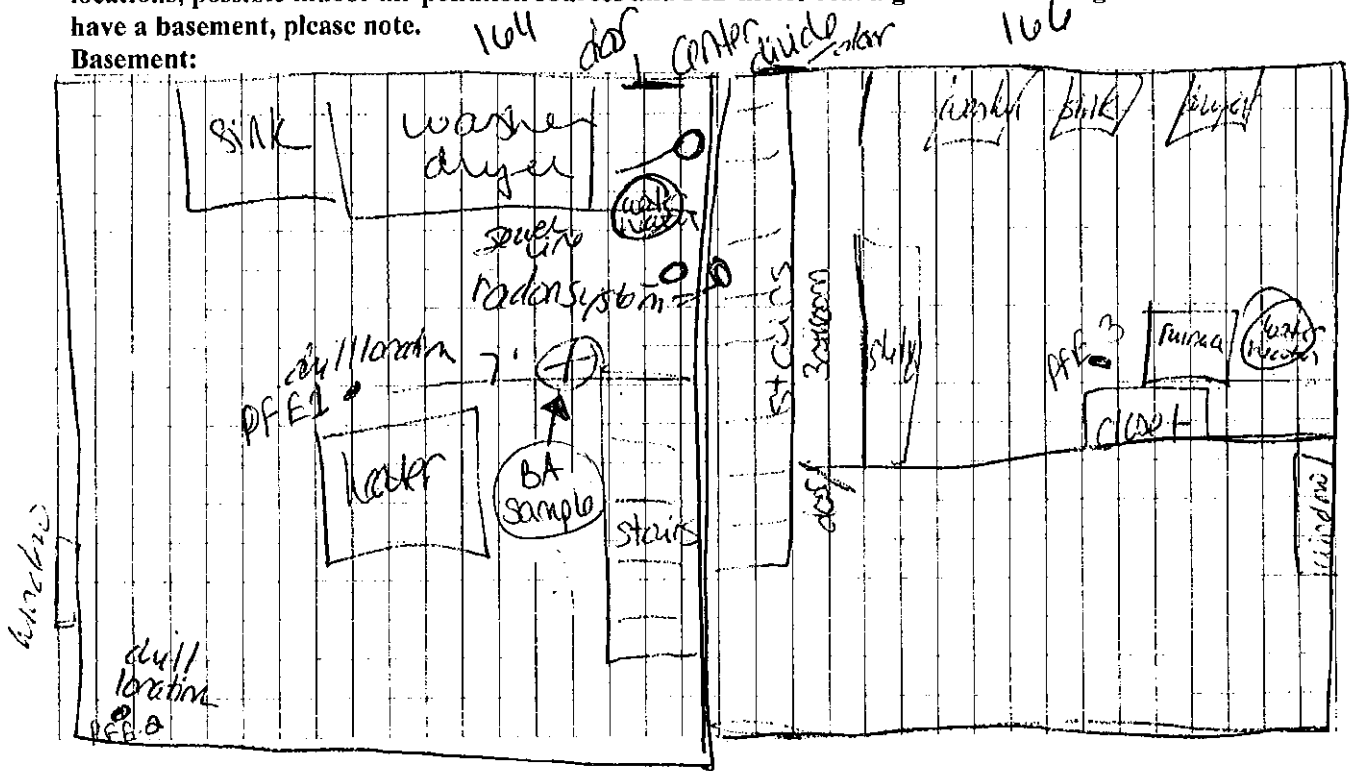
d. Relocation package provided and explained to residents? Y / N

# split house split basement

## 11. FLOOR PLANS

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

Basement:



## First Floor: 12. OUTDOOR PLOT

164	PFE point 1 - 7' dia extraction system	-0.098
	PFE point 2 - 15' dia extraction system	-0.018
166	PFE point 3 - 15' dia extraction point 2	-0.014

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings. Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**

A large grid of graph paper, consisting of 20 vertical columns and 20 horizontal rows, intended for drawing a site sketch. The grid is empty and occupies the majority of the page below the instructions.

### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

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

Location	Product Description	Size (units)	Condition	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
164 basement	black detergent	44oz	U	hydrogen peroxide surfactants	0.0	Y
	air hammer	11lb	↓	"	↓	↓
	Brace	18x	↓	"	↓	↓
	woolite	40oz	↓	"	↓	↓
766 basement	<del>net for water</del> <del>misc</del> 10x			isopropyl alcohol	✓	↓
	garage paint	3.7oz				
	paint	10-gal	used	Latex	0.0	Y
	paint	1qt	good		0.0	↓
	paint	7.75oz	good		0.0	
	WD40	8oz	↓	petroleum distillates	0.0	
	motor oil	3-	↓		0.0	
	power steering fluid	12.5oz	↓	petroleum / zinc fire phosphate	0.0	
	brake fluid		↓	oil	0.0	
	100-anti freeze	1gal	↓	ethylene glycol / ethylene glycol	0.0	
	lamp oil	1/2gal	↓	chloroform / phenol / silica	0.0	
	silicon water guard	1	U	polymers / resins	0.0	
	tacky glue	4oz	U			
	rubidium enamel	2-13oz	U	toluene / acetone / xylene	16.0 ppm	
gypsum patch	2-33oz	U	calcium carbide, Mg, Al, Si, clay, mica, silica			

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* 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 ingredient labels must be legible.

BTS\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

radiant floor 2.1oz U ethylene glycol / vinyl acetate  
acetate / styrene / formaldehyde  
0.0 Y

Indoor Air Sampling Photolog – Axiohm OU2 Site – December, 2010



Chemical Storage – Structure 37



Chemical Storage – Structure 37



Chemical Storage – Structure 37



Chemical Storage – Structure 37





Chemical Storage – Structure 37



Chemical Storage – Structure 37



Chemical Storage – Structure 37



Chemical Storage – Structure 37



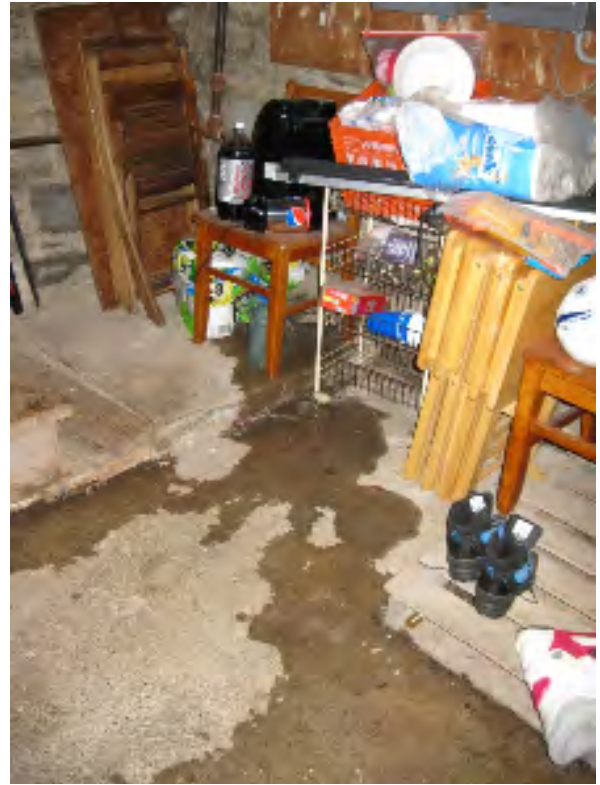
Chemical Storage – Structure 37



Sub Slab Air Sample – Structure 37



Basement Air Sample – Structure 37



Flooding Area in Basement – Structure 37

**Indoor Air Sampling Photolog – Ithaca Off-Site – May 2011**



Basement Air, Sub-Slab Vapor/Duplicate Samples –  
Structure 37



Outdoor Air Sample – Structure 37



Indoor Air Sampling Photolog – Axiohm OU2 Site – February 2012



Sun-Slab Vapor Sample – Structure 37



Basement Air Sample – Structure 37



Basement Air/Sub-Slab Vapor Samples – Structure 37



Outdoor Air Sample – Structure 37



**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19 0002  
Project Name: Ithaca OffSite  
Location: Ithaca NY  
Project Manager: R. Casey/K. Cahill

**Sample Location Information:**

Site ID Number: <b>C755012A</b>	Sampler(s): <b>D. Crandall</b>
PID Meter Used: (Model, Serial #) <b>PPB/RAE 3000</b>	Building I.D. No.: <b>STRUCTURE-37</b>

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: <b>40143</b>	Flow Regulator No.: <b>40439</b>	Flow Regulator No.: <b>40555</b>
Canister Serial No.:	Canister Serial No.: <b>10770</b>	Canister Serial No.: <b>14873</b>	Canister Serial No.: <b>5603</b>
Start Date/Time:	Start Date/Time: <b>2/9/12 1037</b>	Start Date/Time: <b>2/9/12 1035</b>	Start Date/Time: <b>2/9/12 1041</b>
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) <b>-29</b>	Start Pressure: (inches Hg) <b>-30</b>	Start Pressure: (inches Hg) <b>-30</b>
Stop Date/Time:	Stop Date/Time: <b>2/10/12 1037</b>	Stop Date/Time: <b>2/10/12 1035</b>	Stop Date/Time: <b>2/10/12 1009</b>
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) <b>-5</b>	Stop Pressure: (inches Hg) <b>-5.5</b>	Stop Pressure: (inches Hg) <b>-3</b>
Sample ID:	Sample ID: <b>C755012A-BA-37-0212</b>	Sample ID: <b>C755012A-SS-37-0212</b>	Sample ID: <b>C755012A-OA-37-0212</b>

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building
Room	Room	Floor Slab Thickness (inches) [if present]	Distance from Building
Indoor Air Temp (°F)	Indoor Air Temp	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)
Barometric Pressure?	Barometric Pressure?	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	Duplicate Sample?

**Comments:**

**Helium Leak Test - Dome 100% Purge - 250ppm - PASS**

**- NO additional Products observed for inventory**

**- Samples collected in same place as previous events**

Sampler Signature:



**FIELD AIR SAMPLING FORM**

<b>EA</b> ® EA Engineering and Its Affiliate EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211	Project #: 14368.19
	Project Name: Ithaca Off-Site
	Location: Ithaca, NY
	Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C755012A	Sampler(s):	DC/8B
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	37

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 40242	Flow Regulator No.: 40521	Flow Regulator No.: 40164
Canister Serial No.:	Canister Serial No.: 34002	Canister Serial No.: 43399	Canister Serial No.: R-18
Start Date/Time:	Start Date/Time: 5/4/11 1149	Start Date/Time: 5/4/11 1148	Start Date/Time: 5/4/11 1158
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -28.5	Start Pressure: (inches Hg) -30+	Start Pressure: (inches Hg) -28.5
Stop Date/Time:	Stop Date/Time: 5/5/11 1145	Stop Date/Time: 5/5/11 1143	Stop Date/Time: 5/4/11 1157
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -5.5	Stop Pressure: (inches Hg) -4	Stop Pressure: (inches Hg) -10.5
Sample ID:	Sample ID: C755012A-IA-37-0511	Sample ID: C755012A-SS-37-0511	Sample ID: C755012A-OA-37-0511

**Other Sampling Information:**

Story/Level	Room	Indoor Air Temp (°F)	Barometric Pressure?	Intake Height Above Floor Level (ft.)	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
Story/Level	Room	Indoor Air Temp	Barometric Pressure?	Intake Height Above Floor Level (ft.)	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
	Basement	50-60	—	5 1/2"	—	—	—
Basement or Crawl Space?	Floor Slab Thickness (inches) [if present]	Potential Vapor Entry Points Observed?	Ground Surface Condition (Crawl Space Only)	If slab, intake Depth If Crawl Space, intake height	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
Basement	5"	NA	<del>3/8"</del>	5 1/2"	—	—	—
Direction from Building	Distance from Building	Intake Height Above Ground Level (ft.)	Intake Tubing Used?	Distance to nearest Roadway	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
E	20'	4'	No	50'	—	—	—

**Comments:**

Leak Test - Purge: 225 ppb Dome 100% He.

Sub Job Duplicate

Regulator #: ~~40202~~ 40242 40572

Canister #: ~~34002~~ 5778

Start Date/Time/Pressure: 5/4/11 / 1148 / -29

ID# C755012A-SS-DUP-01-0511

Stop date/Time/pressure: 5/5/11 / 1143 / -5

400 ppb Along floor crack (lower ppb in some spots)

363 ppb PID Background 279 ppb

Sampler Signature: \_\_\_\_\_

**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: NYSDEC C75012A Offsite Axiohm  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C75012A	Sampler(s):	SH102/83
PID Meter Used: (Model, Serial #)	ppBRAE	Building I.D. No.:	Structure 37

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.:		Flow Regulator No.:	40078	Flow Regulator No.:	9573	Flow Regulator No.:	
Canister Serial No.:		Canister Serial No.:	14875 1105	Canister Serial No.:	40451 1105	Canister Serial No.:	
Start Date/Time:		Start Date/Time:	10/11/10	Start Date/Time:	10/11/10	Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-28.5 1017	Start Pressure: (inches Hg)	-28.5 1020	Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	10/12/10	Stop Date/Time:	10/12/10	Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-7.5	Stop Pressure: (inches Hg)	-5.5	Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	C755D10A-B1-37	Sample ID:	C755D10A-S5-37	Sample ID:	

**Other Sampling Information:**

Story/Level		Story/Level	basement	Basement or Crawl Space?	basement	Direction from Building	
Room		Room	basement	Floor Slab Thickness (inches) (if present)	5"	Distance from Building	
Indoor Air Temp (°F)		Indoor Air Temp	~60'	Potential Vapor Entry Points Observed?	NA	Intake Height Above Ground Level (ft.)	
Barometric Pressure?		Barometric Pressure?	na	Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)	4.5'	Intake Depth (if Crawl Space, intake height)	5.5'	Distance to nearest Roadway	
Noticeable Odor?		Noticeable Odor?	none	Noticeable Odor?	none	Noticeable Odor?	
PID Reading (ppb)		PID Reading (ppb)		PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?		Duplicate Sample?	none	Duplicate Sample?	none	Duplicate Sample?	

**Comments:**

100' to helium      purge 63 ppb  
400 ppm ppb

Sampler Signature:

37

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.

Preparer's Name Sarah Hebrun Date/Time Prepared 12/1/10

Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610

Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A

1. OCCUPANT: Interviewed: Y / N

Last Name: \_\_\_\_\_ First Name: Angela

Address: [REDACTED]

County: Dempsters Co

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location 2 Age of Occupants \_\_\_\_\_

2. OWNER OR LANDLORD: (Check if same as occupant \_\_\_)

Interviewed: Y / N

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

[Handwritten Signature]



**3. BUILDING CHARACTERISTICS Type of**

**Building:** (Circle appropriate response)

Residential      School      Commercial/Multi-use  
Industrial      Church      Other: \_\_\_\_\_

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

Ranch  
Raised Ranch  
Cape Cod  
Duplex  
Modular

2-Family  
Split Level  
Contemporary  
Apartment House  
Log Home

3-Family  
Colonial  
Mobile Home  
Townhouses/Condos  
Other: \_\_\_\_\_

**If multiple units, how many?**

1 **If the property is commercial, type?**

Business Type(s) \_\_\_\_\_  
Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

**Other characteristics:** *attic*  
*basement*  
*1st + 2nd*  
Number of floors 4 Building age 1930's  
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 patterns and qualitatively describe:**

- Airflow between floors
- Airflow near source
- Outdoor air infiltration
- Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone + brick
- b. Basement type: full crawlspace slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with \_\_\_\_\_
- e. Concrete floor: unsealed sealed sealed with \_\_\_\_\_
- f. Foundation walls: poured block stone + other brick
- g. Foundation walls: unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: \_\_\_\_\_ (feet)

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

**6. HEATING, VENTING and AIR CONDITIONING**

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 \_\_\_\_\_

The primary type of fuel used is:

- Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by:

- Natural gas - Basement - Outdoors - Main Floor - Other \_\_\_\_\_

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold 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.

**7. OCCUPANCY**

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

**Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement \_\_\_\_\_ *Storage laundry*  
1<sup>st</sup> Floor \_\_\_\_\_ *Living, kitchen, bedrooms, office*  
2<sup>nd</sup> Floor \_\_\_\_\_ *bedrooms ~~office~~*  
3<sup>rd</sup> Floor \_\_\_\_\_  
4<sup>th</sup> Floor \_\_\_\_\_

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

*known @ 10'*  
*former garage area*  
*used as storage*  
*radiators*

a. Is there an attached garage?

b. Does the garage have a separate heating unit?

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?

f. Is there a workshop or hobby/craft area?

g. Is there smoking in the building?

h. Have cleaning products been used recently?

i. Have cosmetic products been used recently?

j. Has painting/staining been done in the last 6 months?

k. Is there new carpet, drapes or other textiles?

l. Have air fresheners been used recently?

m. Is there a kitchen exhaust fan?

n. Is there a bathroom exhaust fan?

o. Is there a clothes dryer?

p. Has there been a pesticide application?

Are there odors in the building? Y (N)

If yes, please describe:

Please specify \_\_\_\_\_

Y / N When? unknown

Y (N) Where? \_\_\_\_\_

Y (N) Where & Type? \_\_\_\_\_

Y (N) How frequently? \_\_\_\_\_

Y (N) When & Type? \_\_\_\_\_

Y (N) When & Type? \_\_\_\_\_

(Y) N When & Type? 2-3 months outside side porch

Y (N) Where & When? \_\_\_\_\_ carport

Y / N When & Type? \_\_\_\_\_

If yes, where vented?

Y (N) \_\_\_\_\_

If yes, where vented?

(Y) N attic 2nd floor yes / 1st floor no

(Y) N If yes, is it vented outside? (Y) N

Y (N) When & Type? \_\_\_\_\_

Do any of the building occupants use solvents at work? Y (N)

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

1 time a month -

Is there a radon mitigation system for the building/structure? Y / N Date of Installation:  
Is the system active or passive? Active/Passive

**9. WATER AND SEWAGE**

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: \_\_\_\_\_

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: \_\_\_\_\_

**.10. RELOCATION INFORMATION (for oil spill residential emergency)**

.a. Provide reasons why relocation is recommended: \_\_\_\_\_

.b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

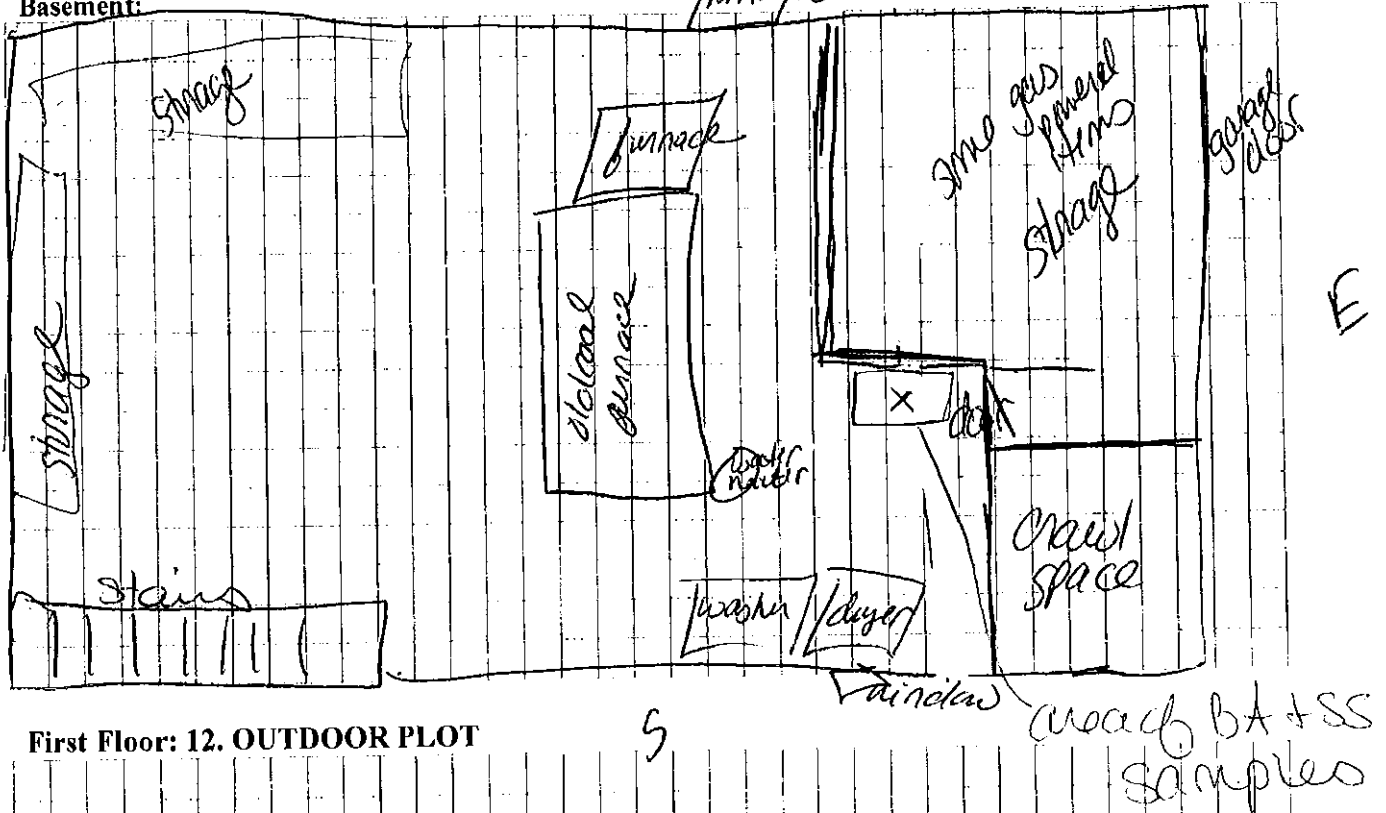
.c. Responsibility for costs associated with reimbursement explained? Y / N

.d. Relocation package provided and explained to residents? Y / N

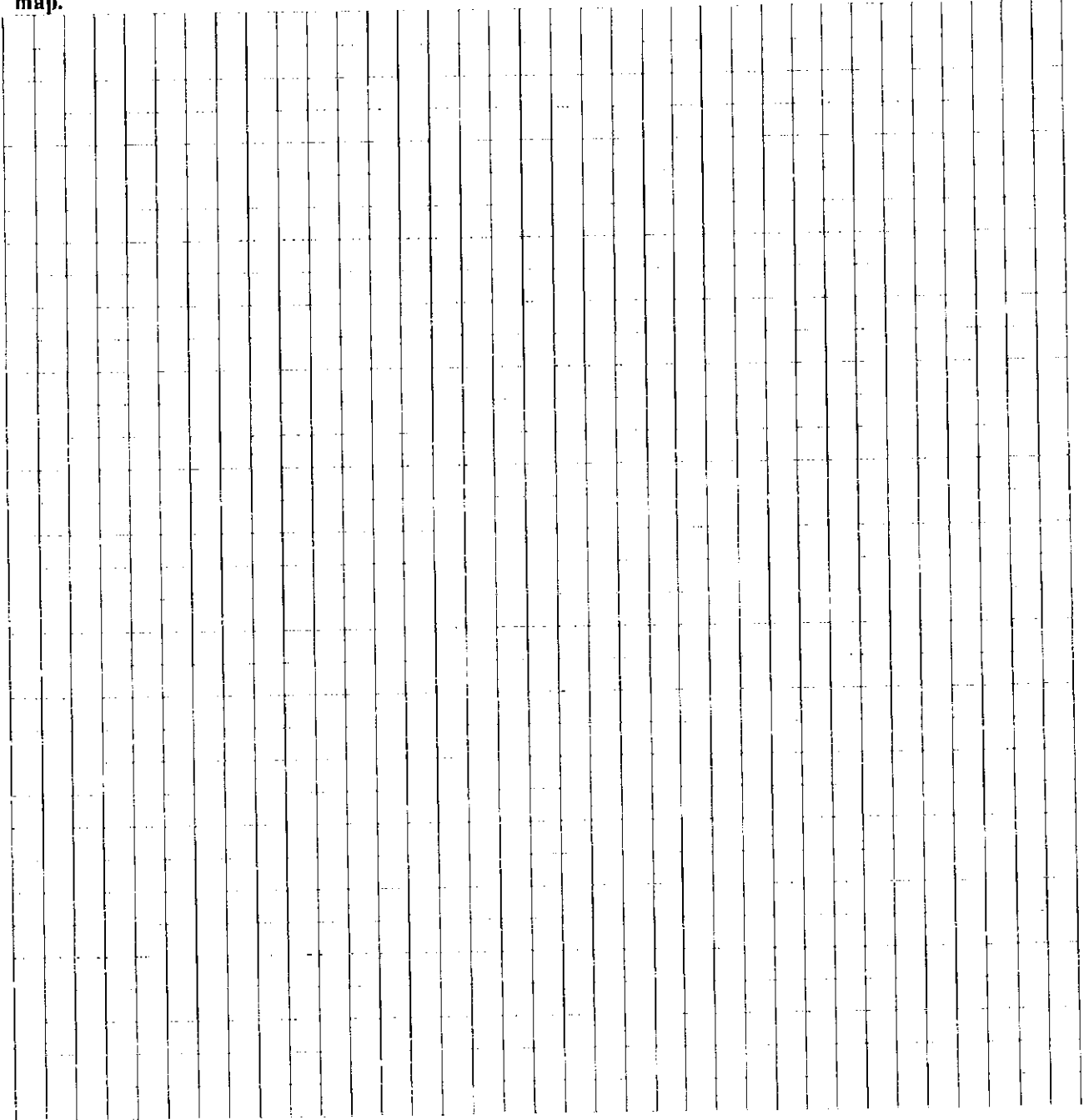
### 11. FLOOR PLANS

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

Basement:



**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings. Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

~~Specific products found in the residences that have the potential to affect indoor air quality~~

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
former garage area	candle gasoline	3gal	U	gas	0.0	U ↓
	bleaching tablets	5/lbs	U	1 bromo 3 chloro 5 5 dimethyl hydantoin	0.0	
basement	lawn fertilizers	bags	U			
	lathit epoxy	4oz	U			
	wood glue	4oz	U			
	WD-40	8oz	U	petroleum distillates		
	rustoleum frost glass	10oz	U	toluene & xylene		
	clap foam roller	12oz	U	dimethyl ether, n-butane (isoprene), ethyl acetate		
	paint	20-1gal	U			
	varnish	10-1qt	U			
	stryperze		U	methyl methacrylate acetone, toluene, methanol		
	mineral spirits	30/10oz	U	mineral spirits petroleum distillates		
	laundry detergent	10-150oz	U	surfactants		
	clorox	2-1gal	U			
	dye sheets	box				

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* 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 ingredient labels must be legible.



Indoor Air Sampling Photolog – Axiohm OU2 Site – December, 2010



Chemical Storage – Structure 38



Chemical Storage – Structure 38



Chemical Storage – Structure 38



Chemical Storage – Structure 38



Chemical Storage and Dryer Area – Structure 38



Sub Slab Air Sample – Structure 38



Basement Air Sample – Structure 38



Outdoor Air Sample – Structure 38

Indoor Air Sampling Photolog – Ithaca Off-Site – May 2011



Sub-Slab Vapor Sample – Structure 38



Basement Air and Radon Samples – Structure 38



**Indoor Air Sampling Photolog – Axiohm OU2 Site – February 2012**



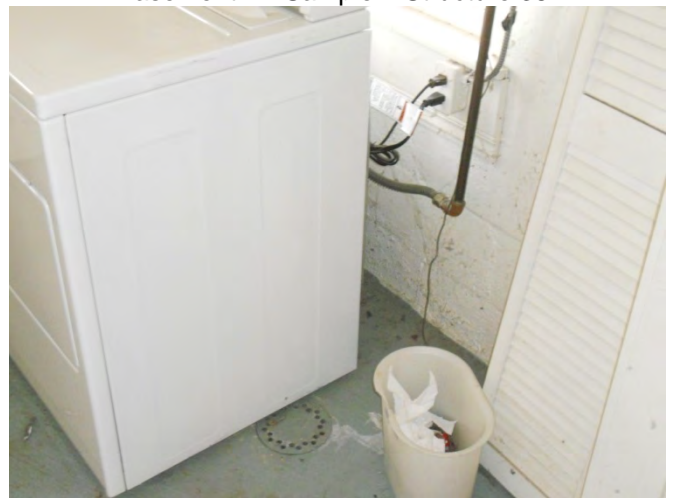
**Sub-Slab Vapor Sample – Structure 38**



**Basement Air Sample – Structure 38**



**Outdoor Air Sample – Structure 38**



**Observed Floor Drain – Structure 38**

**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19 0002  
Project Name: Ithaca OffSite  
Location: Ithaca NY  
Project Manager: R. Casey/K. Cahill

**Sample Location Information:**

Site ID Number: <b>C755012A</b>			Sampler(s): <b>D. Crampall</b>
PID Meter Used: (Model, Serial #) <b>PP6 RAE</b>			Building I.D. No.: <b>STRUCTURE 38</b>

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: <b>40241</b>	Flow Regulator No.: <b>40305</b>	Flow Regulator No.: <b>40609</b>
Canister Serial No.:	Canister Serial No.: <b>925</b>	Canister Serial No.: <b>3475</b>	Canister Serial No.: <b>34740</b>
Start Date/Time:	Start Date/Time: <b>2/9/12 1210</b>	Start Date/Time: <b>2/9/12 1210</b>	Start Date/Time: <b>2/9/12 1220</b>
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) <b>-30</b>	Start Pressure: (inches Hg) <b>-30</b>	Start Pressure: (inches Hg) <del>29</del> <b>-29</b>
Stop Date/Time:	Stop Date/Time: <b>2/10/12 1210</b>	Stop Date/Time: <b>2/10/12 1210</b>	Stop Date/Time: <b>2/9/12 1141</b>
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) <b>-7</b>	Stop Pressure: (inches Hg) <b>-6.5</b>	Stop Pressure: (inches Hg) <b>-3</b>
Sample ID:	Sample ID: <b>C755012A-BA-38-0212</b>	Sample ID: <b>C755012A-SS-38-0212</b>	Sample ID: <b>C755012A-DA-38-0212</b>

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building
Room	Room	Floor Slab Thickness (inches) [if present]	Distance from Building
Indoor Air Temp (°F)	Indoor Air Temp	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)
Barometric Pressure?	Barometric Pressure?	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	Duplicate Sample?

**Comments:**

- Helium Leak test - Dome 100% Purge - 125ppm - PASS

- Sampling Duplicated from previous efforts

- Discovered Fl. Drain in laundry Room.

Sampler Signature:



**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: Ithaca Off-Site  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C755012A	Sampler(s):	DC/SB
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	38

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 6115	Flow Regulator No.: 100415	Flow Regulator No.:
Canister Serial No.:	Canister Serial No.: 11890	Canister Serial No.: 5581	Canister Serial No.:
Start Date/Time:	Start Date/Time: 5/11/15 23	Start Date/Time: 5/11/15 23	Start Date/Time:
Start Pressure: (inches Hg)	Start Pressure: (inches Hg): -25.5	Start Pressure: (inches Hg): -29	Start Pressure: (inches Hg):
Stop Date/Time:	Stop Date/Time: 5/11/15 05	Stop Date/Time: 5/11/15 33	Stop Date/Time:
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg): -7	Stop Pressure: (inches Hg): 0	Stop Pressure: (inches Hg):
Sample ID:	Sample ID: C755012A-IA-38-0511	Sample ID: C755012A-SS-38-0511	Sample ID:

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building
Room	Room	Floor Slab Thickness (inches) [if present]	Distance from Building
Indoor Air Temp (°F)	Indoor Air Temp	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)
Barometric Pressure?	Barometric Pressure?	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	Duplicate Sample?

**Comments:**

Radon set

Helium Est Purge: ~~100%~~ 25 ppm  
Dome: 100%  
PID: 417 ppb

Ambient 134 ppb

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS  
**2106396**

Client  
**RADON TESTING CORP. OF AMERICA**

Sampler Signature:

**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: NYSDEC C75012A Offsite Axiohm  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C75012A	Sampler(s):	SN 10C
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	Structure 38

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.:		Flow Regulator No.:	40157	Flow Regulator No.:	34748	Flow Regulator No.:	12467
Canister Serial No.:		Canister Serial No.:	1591	Canister Serial No.:	40768	Canister Serial No.:	40409
Start Date/Time:		Start Date/Time:	12/11/10 1730	Start Date/Time:	12/11/10 1730	Start Date/Time:	12/11/10 1734
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-30+	Start Pressure: (inches Hg)	-28.5	Start Pressure: (inches Hg)	-29.5
Stop Date/Time:		Stop Date/Time:	12-2-10 1700	Stop Date/Time:	12-2-10 1700	Stop Date/Time:	12-2-10 1700
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-3.5	Stop Pressure: (inches Hg)	-2	Stop Pressure: (inches Hg)	-5
Sample ID:		Sample ID:	C755D12A-BA-38	Sample ID:	C755D12A-SS-38	Sample ID:	C755D12A-0A-38

**Other Sampling Information:**

Story/Level		Story/Level	Basmt	Basement or Crawl Space?	Basmt	Direction from Building	N
Room		Room	Utility Hall	Floor Slab Thickness (inches) [if present]	5"	Distance from Building	15ft
Indoor Air Temp (°F)		Indoor Air Temp	60F	Potential Vapor Entry Points Observed?	Swamp Pt.	Intake Height Above Ground Level (ft.)	5ft
Barometric Pressure?		Barometric Pressure?	NA	Ground Surface Condition (Crawl Space Only)	NA	Intake Tubing Used?	Y
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)	4.5ft	(slab) Intake Depth If Crawl Space, intake height	5.5"	Distance to nearest Roadway	65ft
Noticeable Odor?		Noticeable Odor?	NO	Noticeable Odor?	NO	Noticeable Odor?	NO
PID Reading (ppb)		PID Reading (ppb)	0	PID Reading (ppb)	0	PID Reading (ppb)	0
Duplicate Sample?		Duplicate Sample?	NO	Duplicate Sample?	NO	Duplicate Sample?	NO

**Comments:**

purge - 475 ppm 100% humidity

0 ppb

Sampler Signature:

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

38

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

Preparer's Name Erin Nelson Date/Time Prepared 12/1/10 4:30

Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610

Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A

**1. OCCUPANT: Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: Tompkins

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2. OWNER OR LANDLORD: (Check if same as occupant )**

**Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_



**3. BUILDING CHARACTERISTICS Type of**

**Building:** (Circle appropriate response)

<input checked="" type="radio"/> Residential	<input type="radio"/> School	<input type="radio"/> Commercial/Multi-use
<input type="radio"/> Industrial	<input type="radio"/> Church	Other: _____

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

<input type="radio"/> Ranch	<input type="radio"/> 2-Family	<input type="radio"/> 3-Family
<input type="radio"/> Raised Ranch	<input type="radio"/> Split Level	<input type="radio"/> Colonial
<input checked="" type="radio"/> Cape Cod	<input type="radio"/> Contemporary	<input type="radio"/> Mobile Home
<input type="radio"/> Duplex	<input type="radio"/> Apartment House	<input type="radio"/> Townhouses/Condos
<input type="radio"/> Modular	<input type="radio"/> Log Home	Other: _____

**If multiple units, how many?**

2 **If the property is commercial, type?** *Studioapt*

Business Type(s) \_\_\_\_\_  
Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

**Other characteristics:**

Number of floors 1st floor & basement Building age 1950's  
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 patterns and qualitatively describe:**

- Airflow between floors
- Airflow near source
- Outdoor air infiltration
- Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with stone
- e. Concrete floor: unsealed sealed sealed with \_\_\_\_\_
- f. Foundation walls: poured block stone other \_\_\_\_\_
- g. Foundation walls: unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N
- k. Water in sump? Y/N / not applicable

Basement/Lowest level depth below grade: grade - 6' (feet)

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

**6. HEATING, VENTING and AIR CONDITIONING**

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 \_\_\_\_\_

The primary type of fuel used is:

- Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: natural gas

Boiler/furnace located in: Basement - Outdoors - Main Floor - Other \_\_\_\_\_

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold 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.

-studio apt  
laundry

**7. OCCUPANCY**

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

**Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement laundry, storage - studioapt - living  
1<sup>st</sup> Floor Kitchen - living bedrooms  
2<sup>nd</sup> Floor \_\_\_\_\_  
3<sup>rd</sup> Floor \_\_\_\_\_  
4<sup>th</sup> Floor \_\_\_\_\_

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

a. Is there an attached garage?

Y/N  N

b. Does the garage have a separate heating unit?

Y/N/NA  NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y/N/NA  NA

Please specify in basement area

d. Has the building ever had a fire?

Y  N When? \_\_\_\_\_

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? simple green

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 When & Type? \_\_\_\_\_

k. Is there new carpet, drapes or other textiles?

Y  N Where & When? \_\_\_\_\_

l. Have air fresheners been used recently?

Y /  N When & Type? \_\_\_\_\_  
If yes, where vented?

m. Is there a kitchen exhaust fan?

Y  N \_\_\_\_\_  
If yes, where vented?

n. Is there a bathroom exhaust fan?

Y / N bathrooms - vented outside

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

If yes, please describe:

Do any of the building occupants use solvents at work? Y /  N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

NO

Is there a radon mitigation system for the building/structure?  Y /  N Date of Installation: 2/4/2010  
Is the system active or passive? Active/Passive

**9. WATER AND SEWAGE**

Water Supply:  Public Water  Drilled Well  Driven Well  Dug Well Other: \_\_\_\_\_  
Sewage Disposal:  Public Sewer  Septic Tank  Leach Field  Dry Well Other: \_\_\_\_\_

Studio City  
asset 8

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

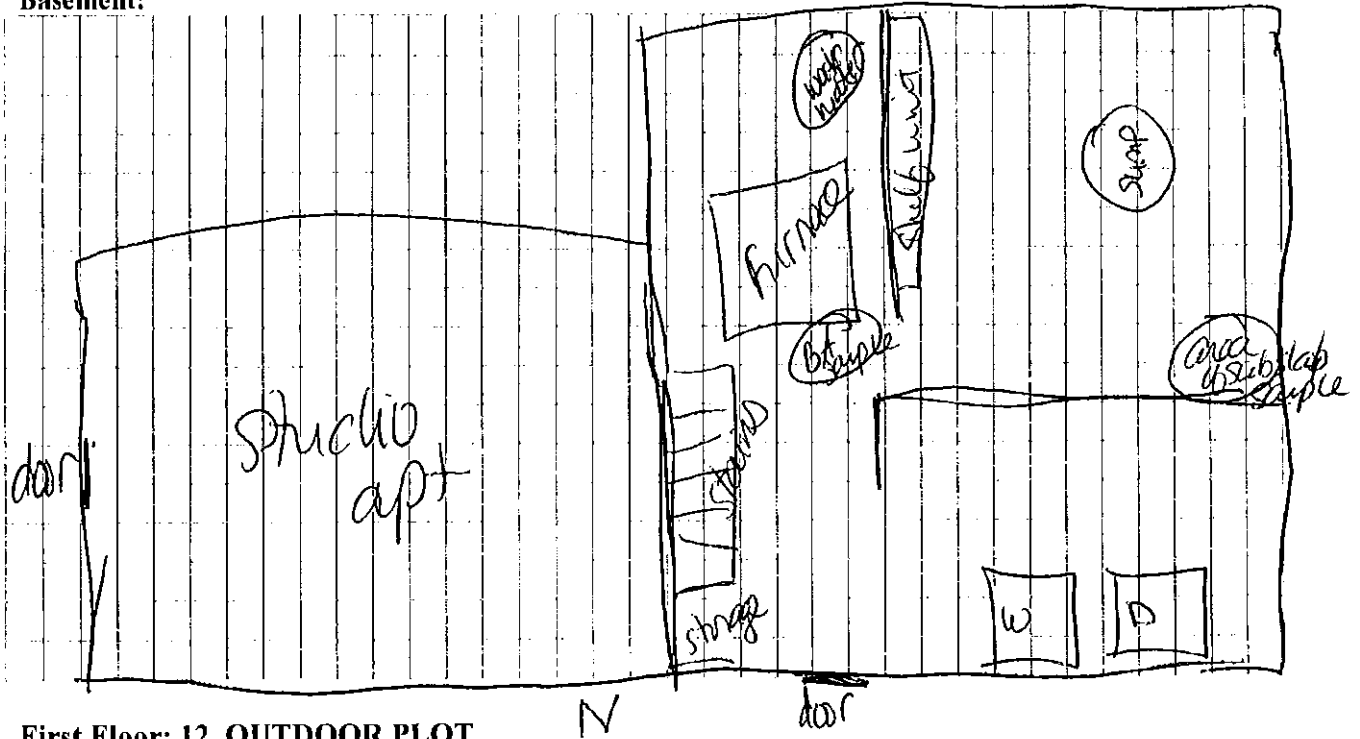
- a. Provide reasons why relocation is recommended: \_\_\_\_\_
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

~~house tested July 06~~  
~~with a unit from stone~~

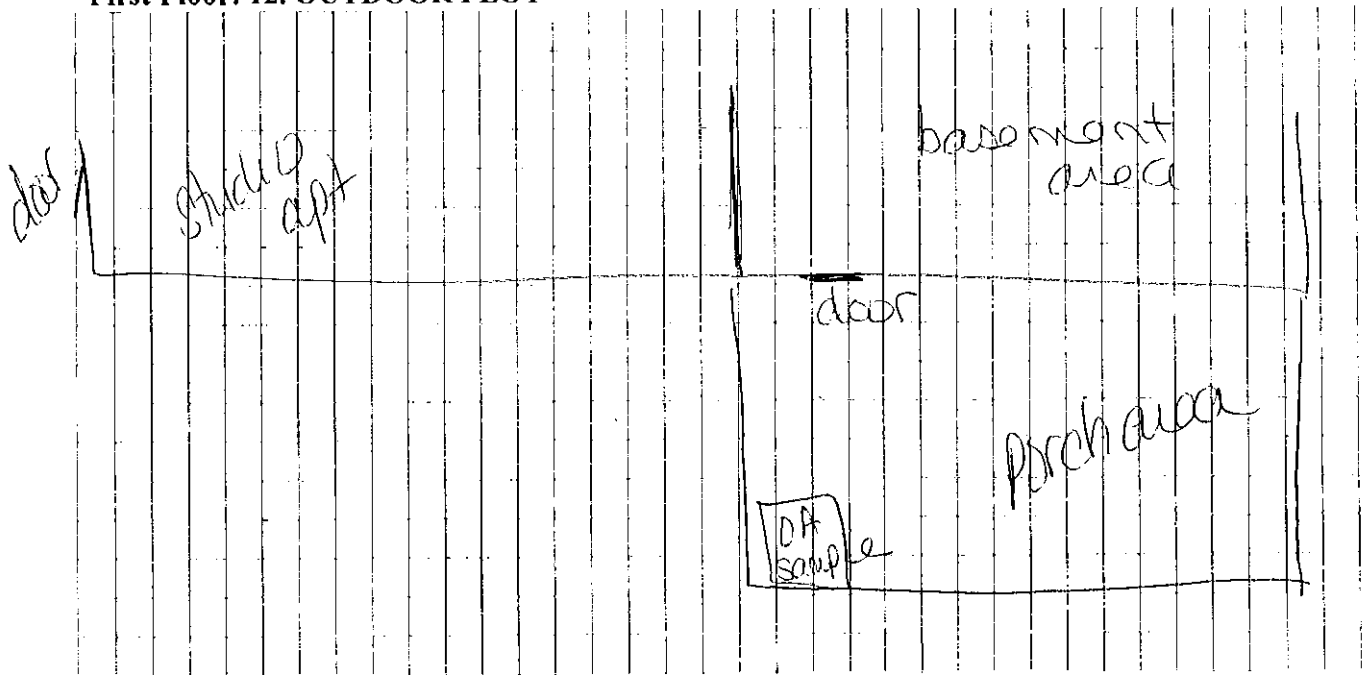
### 11. FLOOR PLANS

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

Basement:



First Floor: 12. OUTDOOR PLOT



**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings. Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**

A large grid of graph paper, consisting of 20 vertical columns and 20 horizontal rows, intended for drawing a site sketch. The grid is empty and occupies the majority of the page below the instructions.

### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

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 Reading (units)	Photo ** Y/N
Basement	Paint	20-1gal	U	Latex paint	0.0	Y
	Paint	10-1qt	U	" "	0.0	Y
-	Lawnmower	-	-	-	~700ppb+	Y
	Wasp & bee spray	5oz	U	Surfactant (sodium lauryl sulfate) Permethrin (cyclohexane) 1,2-dichlorobenzene, methyl 2 2-dimethyl-3-cyclopropane carboxylate	0.0	Y
	Bug-tar					
	prestone de-icer	11oz	U	ethylene glycol	0.0	Y
	mineral spirits	1gal	U		0.0	Y
	Dif wall paper stripper	28oz	U		0.0	Y
	charcoal starter		U		0.0	Y
	CLR				0.0	Y
	Unseed oil				0.0	Y
	wood filler	16oz			0.0	Y
	liquid Drano				0.0	Y
					0.0	Y
	detergent			surfactants		Y

\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

\*\* 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 ingredient labels must be legible.



Indoor Air Sampling Photolog – Axiohm OU2 Site – December, 2010



Chemical Storage – Structure 39



Chemical Storage – Structure 39



Chemical Storage – Structure 39



Chemical Storage – Structure 39



Radon System – Structure 39



Radon System – Structure 39



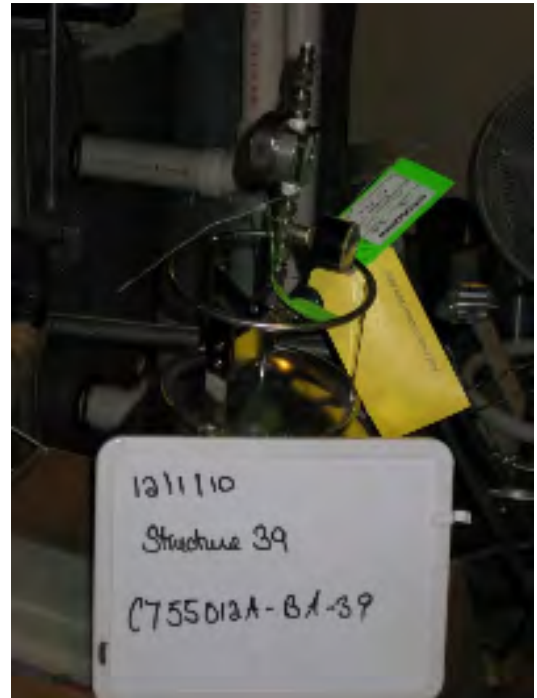
Radon System – Structure 39



Radon System – Structure 39



Radon System – Structure 39



Basement Air Sample – Structure 39

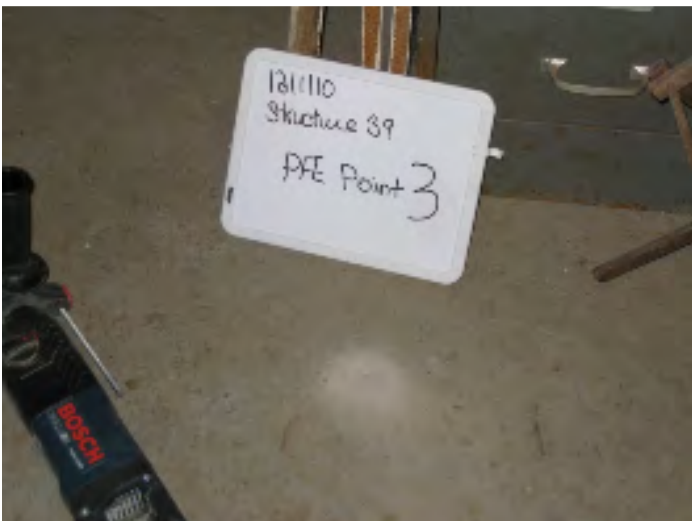




PFE Point 1 – Structure 39

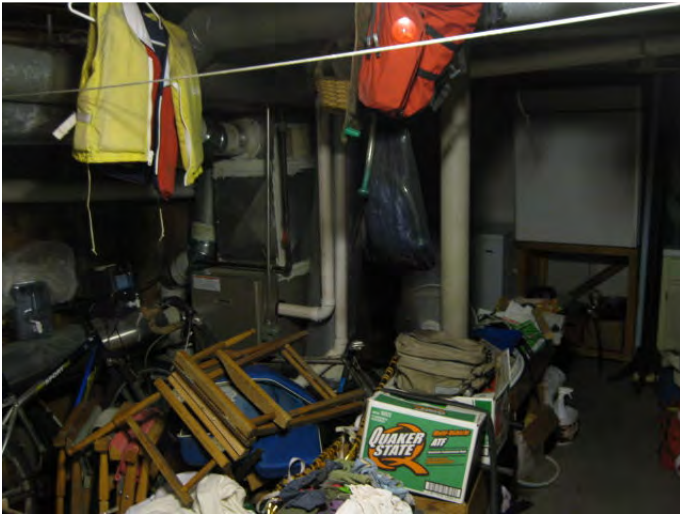


PFE Point 2 – Structure 39



PFE Point 3 – Structure 39

## Indoor Air Sampling Photolog – Ithaca Off-Site – May 2011



Unfinished Basement Area – Structure 39



Basement Air and Radon Samples – Structure 39

**Indoor Air Sampling Photolog – Axiohm OU2 Site – February 2012**



Basement Air Sample – Structure 39



Outdoor Air Sample – Structure 39



### FIELD AIR SAMPLING FORM



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19 0005  
Project Name: Ithaca Offsite  
Location: Ithaca, New York  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C755012A	Sampler(s):	D Crandall/C. Schroer
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	Structure 39

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 40299	Flow Regulator No.:	Flow Regulator No.: 40705
Canister Serial No.:	Canister Serial No.: 14871	Canister Serial No.:	Canister Serial No.: 35269
Start Date/Time:	Start Date/Time: 2/16/12 1057	Start Date/Time:	Start Date/Time: 2/16/12 1103
Start Pressure: (inches Hg)	Start Pressure: (inches Hg): -2.9	Start Pressure: (inches Hg)	Start Pressure: (inches Hg): -3.0
Stop Date/Time:	Stop Date/Time: 2/17/12 1041	Stop Date/Time:	Stop Date/Time: 2/17/12 1039
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg): -3	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg): -0.5
Sample ID:	Sample ID: C755012A-BA-39-0212	Sample ID:	Sample ID: C755012A-OA-39-0212

**Other Sampling Information:**

Story/Level	Story/Level	BSMT	Basement or Crawl Space?		Direction from Building	N
Room	Room	BSMT	Floor Slab Thickness (inches) [if present]		Distance from Building	30 ft.
Indoor Air Temp (°F)	Indoor Air Temp	58 F	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	4 ft.
Barometric Pressure?	Barometric Pressure?	-	Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	✓
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	4 ft.	If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	80 ft.
Noticeable Odor?	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	-
PID Reading (ppb)	PID Reading (ppb)	11 ppb.	PID Reading (ppb)		PID Reading (ppb)	6 ppb.
Duplicate Sample?	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?	

**Comments:**

Post SSDS upgrade sample.

Sampler Signature:



**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: Ithaca Off-Site  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number: C	C755012A	Sampler(s):	DC/SB
PID Meter Used: (Model, Serial #)	ppBRAE	Building I.D. No.:	39

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.:		Flow Regulator No.:	40079	Flow Regulator No.:		Flow Regulator No.:	
Canister Serial No.:		Canister Serial No.:	415	Canister Serial No.:		Canister Serial No.:	
Start Date/Time:		Start Date/Time:	5/4/11 08:53	Start Date/Time:		Start Date/Time:	
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	
Stop Date/Time:		Stop Date/Time:	5/5/11 08:41	Stop Date/Time:		Stop Date/Time:	
Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-7	Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	
Sample ID:		Sample ID:	C755012A-BA-39-0511	Sample ID:		Sample ID:	

**Other Sampling Information:**

Story/Level		Story/Level	Basement	Basement or Crawl Space?		Direction from Building	
Room		Room	Basement/Storage	Floor Slab Thickness (inches) [if present]		Distance from Building	
Indoor Air Temp (°F)		Indoor Air Temp	55-60	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	
Barometric Pressure?		Barometric Pressure?	—	Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)	4'	If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	
Noticeable Odor?		Noticeable Odor?	—	Noticeable Odor?		Noticeable Odor?	
PID Reading (ppb)		PID Reading (ppb)	0	PID Reading (ppb)		PID Reading (ppb)	
Duplicate Sample?		Duplicate Sample?	—	Duplicate Sample?		Duplicate Sample?	

**Comments:**


Radon Sampler left  
basement air sample after removal of chemicals on 9/28/11

REMOVE THIS PORTION AND KEEP  
FOR YOUR RECORDS  
2106315

Client  
RADON TESTING CORP. OF AMERICA

Sampler Signature: *[Signature]*

**FIELD AIR SAMPLING FORM**

	EA Engineering and Its Affiliate EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211	Project #: 14368.19 Project Name: NYSDEC C75012A Offsite Axiohm Location: Ithaca, NY Project Manager: Bob Casey/Karen Cahill
---	--	---

**Sample Location Information:**

Site ID Number:	C75012A	Sampler(s):	SN10C
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	Structure 3a

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 40007	Flow Regulator No.:	Flow Regulator No.:
Canister Serial No.:	Canister Serial No.: 4238	Canister Serial No.:	Canister Serial No.:
Start Date/Time:	Start Date/Time: 12/11/03	Start Date/Time:	Start Date/Time:
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -30+	Start Pressure: (inches Hg)	Start Pressure: (inches Hg)
Stop Date/Time:	Stop Date/Time: 12/21/03	Stop Date/Time:	Stop Date/Time:
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -5	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg)
Sample ID:	Sample ID: M55012A-BA-39	Sample ID:	Sample ID:

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building
Room	Room: BSMT	Floor Slab Thickness (inches) [if present]	Distance from Building
Indoor Air Temp (°F)	Indoor Air Temp: ~50°	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)
Barometric Pressure?	Barometric Pressure?: NA	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.): 3.5'	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?: now	Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb): 0	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	Duplicate Sample?: now	Duplicate Sample?	Duplicate Sample?

**Comments:**

PFE #2 - 0.053      PFE pint 1 - 0.006  
 PFE pint 3 - 0.0000

Sampler Signature: \_\_\_\_\_

39

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.

Preparer's Name S. Nelson Date/Time Prepared 12/1/10 7<sup>00</sup> PM

Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610

Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A

**1. OCCUPANT: Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: Fulton

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location 2 Age of Occupants 40's

**2. OWNER OR LANDLORD: (Check if same as occupant \_\_\_)**

**Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

### 3. BUILDING CHARACTERISTICS Type of

**Building:** (Circle appropriate response)

Residential      School      Commercial/Multi-use  
 Industrial      Church      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: \_\_\_\_\_

**If multiple units, how many?**

\_\_\_\_\_ **If the property is commercial, type?**

Business Type(s) \_\_\_\_\_

Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

**Other characteristics:**

Number of floors 2 Building age 1946

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 patterns and qualitatively describe:**

Airflow between floors  
Airflow near source  
Outdoor air infiltration  
Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with carpet on finished side
- e. Concrete floor: unsealed sealed sealed with paint
- f. Foundation walls: poured block stone other \_\_\_\_\_
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 4 (feet)

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

**6. HEATING, VENTING and AIR CONDITIONING**

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 \_\_\_\_\_

The primary type of fuel used is:

- Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: natural gas

Boiler/furnace located in: Basement - Outdoors - Main Floor - Other \_\_\_\_\_

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold 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.

7. OCCUPANCY

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

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement half storage / half finished  
1<sup>st</sup> Floor living, kitchen, bedroom  
2<sup>nd</sup> Floor \_\_\_\_\_  
3<sup>rd</sup> Floor \_\_\_\_\_  
4<sup>th</sup> Floor \_\_\_\_\_

attic - no livable space



8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

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)

Y/N/NA

Please specify \_\_\_\_\_

d. Has the building ever had a fire?

Y/N When? <sup>but</sup> \_\_\_\_\_ - woodstove in finished side

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? occasionally - 4/15 ago

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 When & Type? \_\_\_\_\_

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?

If yes, where vented? Y N \_\_\_\_\_ outside

n. Is there a bathroom exhaust fan?

If yes, where vented? Y N \_\_\_\_\_ outside

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

If yes, please describe:

Do any of the building occupants use solvents at work? Y N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service

NO

Is there a radon mitigation system for the building/structure? Y / N Date of Installation:  
Is the system active or passive? Active / Passive

*John Kaminsky  
installed  
between 94-98*

**9. WATER AND SEWAGE**

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: \_\_\_\_\_  
Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: \_\_\_\_\_

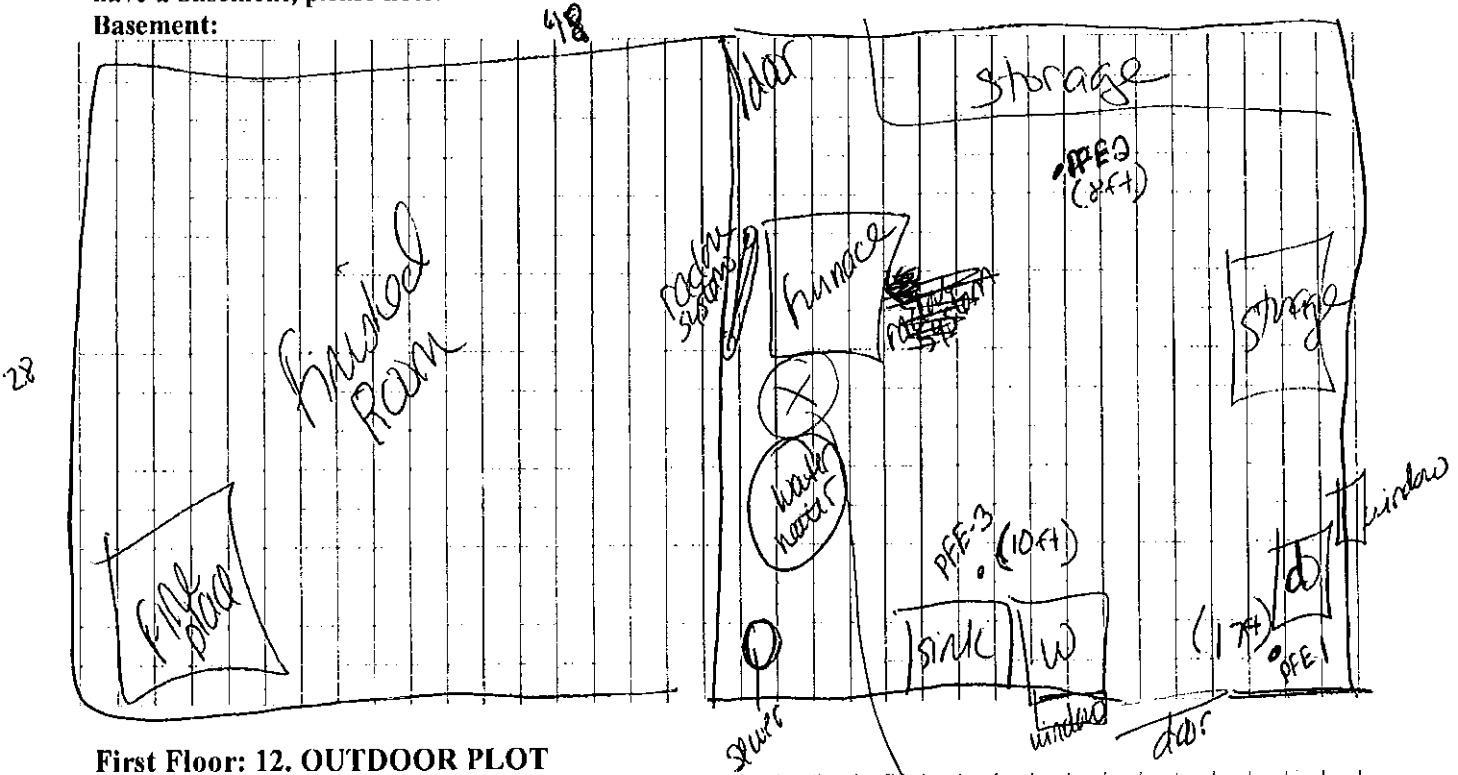
**.10. RELOCATION INFORMATION (for oil spill residential emergency)**

- a. Provide reasons why relocation is recommended: \_\_\_\_\_
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement:

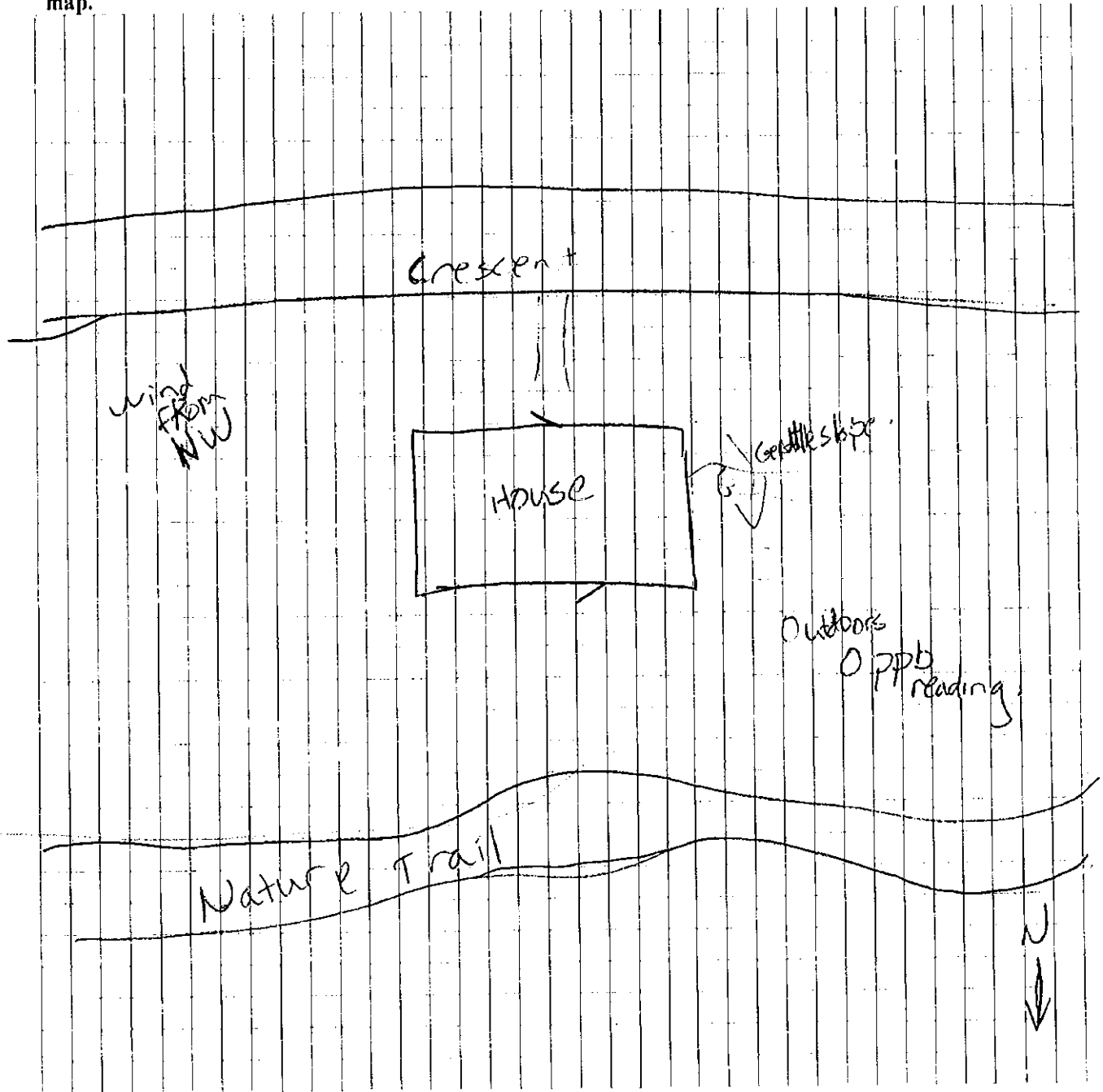


First Floor: 12. OUTDOOR PLOT

First Floor NA Not sampled.

already  
B.A. sample

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings. Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

What 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 Reading (units)	Photo ** Y/N
Laundry	contractors solvent		U	organic hydrocarbons	0.0	
Valpar	wood filler	1/2 pt	U	Aliphatic lyseed oil - hydrocarbons		
laundry	laundry det.	53 fl oz	U	surfactants	0.0	Y
washer	woolite	16 fl oz	U	surfactants	0.0	
	Rit dye	8 fl oz	U	-		
	non-chlorine bleach	48 fl oz	U	-		
	Bondo body filler	1 lb	U	poly-ester resin cobaltos forms		Y
Alcohol	plastic sealer	1 pt	U	-		
	tax form seal	12 oz	U	dimethyl ether propane n butane isopropanol ethylene glycol	vinyl acetate	
	wood glues		U			
	Sandable primer		U	keytones & toluene	0.0	
	box of wood stains	1/2 pt / 1 qt	D	nothing listed	0.0	
	spray paint			hydrocarbon preparations ethyl benzene long chain ketone acetates toluene	0.0	
	mineral spirits	1 qt	U		0.0	
very old	box of paints	1 gal	D	very old 1970's	0.0	
	waterproof sealer	1 qt / 1 pt		nothing listed		
	box of oil - motor oil	12-1 qts	U		0.0	
	boxes of rusted	1 gal / 1 pt	D	old paint & spray paint		
				old paint - nothing listed - 1970's	0.0	

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)  
 \*\* 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 ingredient labels must be legible.  
 BTS\Sections\SIS\Oil Spills\Guidance Docs\Aiprot4.doc

quid cloth - 1 gal U 0.0  
 household glue 2.8 oz U 0.0  
 + 1/2 lb wood glue 1 lb U 0.0

1 pt U 0.0  
 1 qt U 0.0

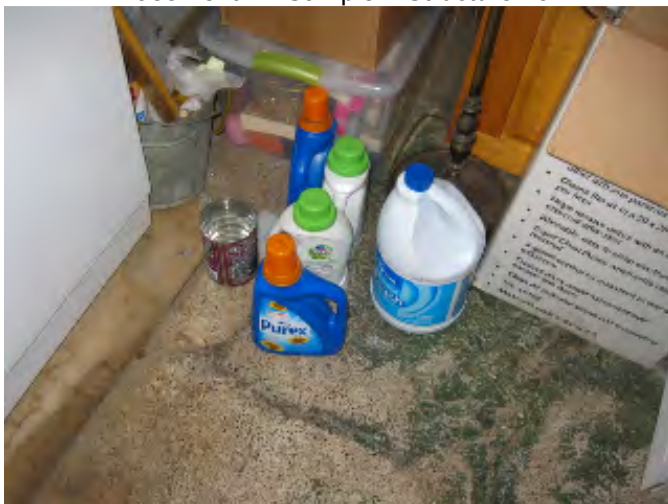
Indoor Air Sampling Photolog – Axiohm OU2 Site – December, 2010



Basement Air Sample – Structure 43



Sub-Slab Vapor Sample – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43





Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43



Indoor Air Sampling Photolog – Axiohm OU2 Site – February 2012



Basement Air Sample – Structure 43



Outdoor Air Sample – Structure 43



Chemical Storage – Structure 43



Chemical Storage – Structure 43

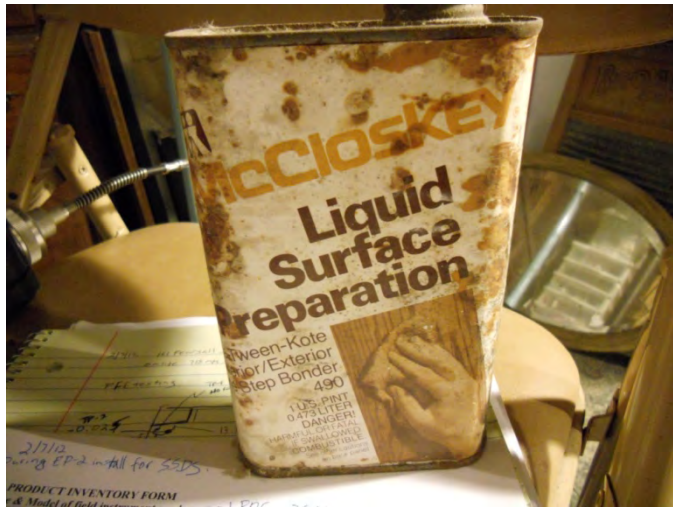


Chemical removed prior to sampling – Structure 43



Chemical removed prior to sampling – Structure 43

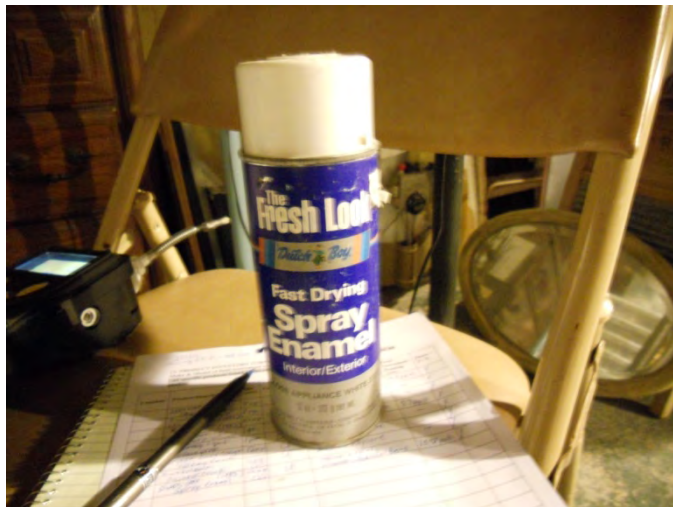




Chemical removed prior to sampling – Structure 43



Chemical removed prior to sampling – Structure 43




Chemical removed prior to sampling – Structure 43



Chemical removed prior to sampling – Structure 43

### FIELD AIR SAMPLING FORM

	EA Engineering and Its Affiliate EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211	Project #: 14368.19 0005 Project Name: Ithaca Offsite Location: Ithaca, New York Project Manager: Bob Casey/Karen Cahill
---	--	---

**Sample Location Information:**

Site ID Number:	C755012A	Sampler(s):	D Crandall/C. Schroer
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	structure 43

**SUMMA Canister Record:**

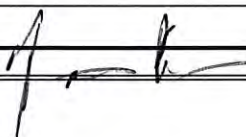
INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 209??	Flow Regulator No.:	Flow Regulator No.: 4003
Canister Serial No.:	Canister Serial No.: 34320	Canister Serial No.:	Canister Serial No.: 5673
Start Date/Time:	Start Date/Time: 2/16/12 10:34	Start Date/Time:	Start Date/Time: 2/16/12 10:41
Start Pressure: (inches Hg)	Start Pressure: (inches Hg): -29	Start Pressure: (inches Hg)	Start Pressure: (inches Hg): -29
Stop Date/Time:	Stop Date/Time: 2/17/12 10:33	Stop Date/Time:	Stop Date/Time: 2/17/12 10:30
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg): -45	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg): -0.5
Sample ID:	Sample ID: E-755012A-BA-43-0212	Sample ID:	Sample ID: C755012A-0A-43-0212

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building	SE
Room	Room	Floor Slab Thickness (inches) [if present]	Distance from Building	15ft
Indoor Air Temp (°F)	Indoor Air Temp	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft.)	4ft
Barometric Pressure?	Barometric Pressure?	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?	Y
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway	70ft
Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	-
PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	0ppb
Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	-

**Comments:**

Post SSDS improvement sampling.

Sampler Signature: 

**FIELD AIR SAMPLING FORM**



EA Engineering and Its Affiliate  
EA Science & Technology  
6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211

Project #: 14368.19  
Project Name: NYSDEC C75012A Offsite Axiohm  
Location: Ithaca, NY  
Project Manager: Bob Casey/Karen Cahill

**Sample Location Information:**

Site ID Number:	C75012A	Sampler(s):	S110e
PID Meter Used: (Model, Serial #)	ppbRAE	Building I.D. No.:	Structure 43

**SUMMA Canister Record:**

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.:	Flow Regulator No.: 40190	Flow Regulator No.: 40393	Flow Regulator No.:
Canister Serial No.:	Canister Serial No.: 33789	Canister Serial No.: 934	Canister Serial No.:
Start Date/Time:	Start Date/Time: 12-6-10 1654	Start Date/Time: 12-6-10 1655	Start Date/Time:
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -26	Start Pressure: (inches Hg) -30+	Start Pressure: (inches Hg)
Stop Date/Time:	Stop Date/Time: 12-7-10 1655	Stop Date/Time: 12-7-10 1633	Stop Date/Time:
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -1.5	Stop Pressure: (inches Hg) -7.5	Stop Pressure: (inches Hg)
Sample ID:	Sample ID: C755012A-BA-43	Sample ID: C755012A-SS-43	Sample ID:

**Other Sampling Information:**

Story/Level	Story/Level	Basement or Crawl Space?	Direction from Building
Room	Room	Floor Slab Thickness (inches) (if present)	Distance from Building
Indoor Air Temp (°F)	Indoor Air Temp	Potential Vapor Entry Points Observed?	Intake Height Above Ground Level (ft)
Barometric Pressure?	Barometric Pressure?	Ground Surface Condition (Crawl Space Only)	Intake Tubing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	If slab, intake Depth If Crawl Space, intake height	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?	Noticeable Odor?	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)	PID Reading (ppb)
Duplicate Sample?	Duplicate Sample?	Duplicate Sample?	Duplicate Sample?

**Comments:**

helium 100% 475 ppm purge  
ppb-purge 1.977 ppb

Passive Samplers	12-6-10	12-7-10	Sampler
Radiello - C755012A-RAD-43	1650		DUP 32
ULTRA-3 - C755012A-ULTRA-43	12-6-10 1650	12-7-10	

Sampler Signature:

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

43

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

Preparer's Name S. Nelson Date/Time Prepared 12/6/10

Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610

Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A

**1. OCCUPANT: Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address:  \_\_\_\_\_

County: Seneca

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2. OWNER OR LANDLORD: (Check if same as occupant )**

**Interviewed: Y / N**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_



**3. BUILDING CHARACTERISTICS Type of**

**Building:** (Circle appropriate response)

Residential      School      Commercial/Multi-use  
Industrial      Church      Other: \_\_\_\_\_

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

Ranch  
Raised Ranch      2-Family Split Level      3-Family Colonial  
Cape Cod      Contemporary      Mobile Home  
Duplex      Apartment House      Townhouses/Condos  
Modular      Log Home      Other: \_\_\_\_\_

*Sausbuit house*

**If multiple units, how many?**

1 **If the property is commercial, type?**

Business Type(s) \_\_\_\_\_  
Does it include residences (i.e., multi-use)? Y / N If yes, how many? \_\_\_\_\_

**Other characteristics:**

Number of floors 3 Building age 1985  
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 patterns and qualitatively describe:**

- Airflow between floors
- Airflow near source
- Outdoor air infiltration
- Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other \_\_\_\_\_
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with 1000 6x4 covered sidewalk
- e. Concrete floor: unsealed sealed sealed with paint
- f. Foundation walls: poured block stone other \_\_\_\_\_
- g. Foundation walls: unsealed sealed sealed with paint + Sheetrock
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 4 (feet)

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

**6. HEATING, VENTING and AIR CONDITIONING**

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 \_\_\_\_\_

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: natural gas

Boiler/furnace located in: Basement - Outdoors - Main Floor - Other \_\_\_\_\_

Air conditioning: Central Air - Window units - Open Windows - None

Are there air distribution ducts present? Y / N

Describe the supply and cold 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.

**7. OCCUPANCY**

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

**Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement Living / bedroom / laundry  
1<sup>st</sup> Floor Kitchen Living  
2<sup>nd</sup> Floor bedrooms  
3<sup>rd</sup> Floor \_\_\_\_\_  
4<sup>th</sup> Floor \_\_\_\_\_

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y/N

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)

Y/N/NA

Lawnmower next to SS area

Please specify ~~DATA~~ 16.2 ppm

d. Has the building ever had a fire?

Y/N When? unknown

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 When & Type? hallway area 1st floor

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/N If yes, where vented? outside

n. Is there a bathroom exhaust fan?

Y/N If yes, where vented? bathroom

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

If yes, please describe:

Do any of the building occupants use solvents at work? Y/N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y/N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly) No
- Yes, use dry-cleaning infrequently (monthly or less) Unknown
- Yes, work at a dry-cleaning service

NO

Is there a radon mitigation system for the building/structure? Y/N Date of Installation: \_\_\_\_\_  
Is the system active or passive? Active/Passive

**9. WATER AND SEWAGE**

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: \_\_\_\_\_

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: \_\_\_\_\_

**.10. RELOCATION INFORMATION (for oil spill residential emergency)**

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

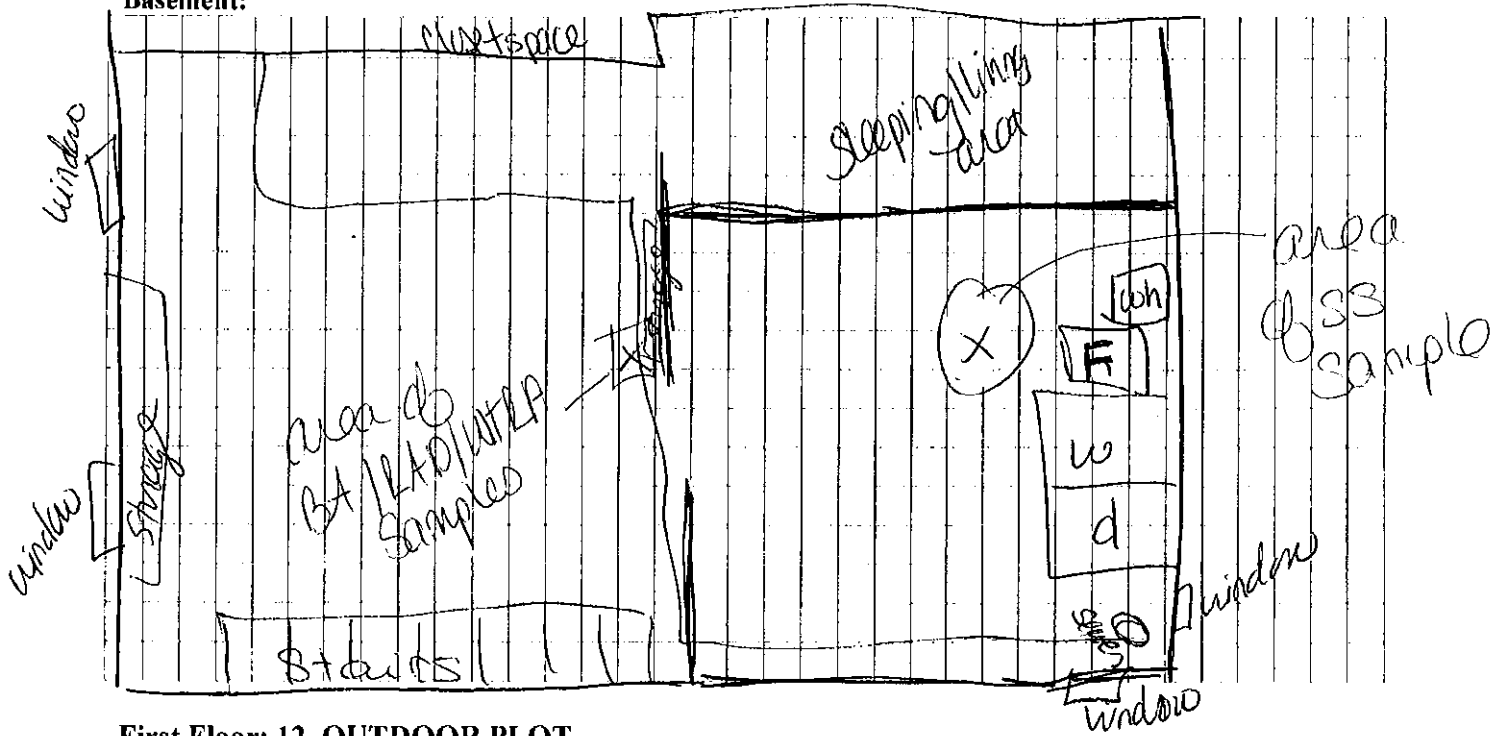
d. Relocation package provided and explained to residents? Y / N



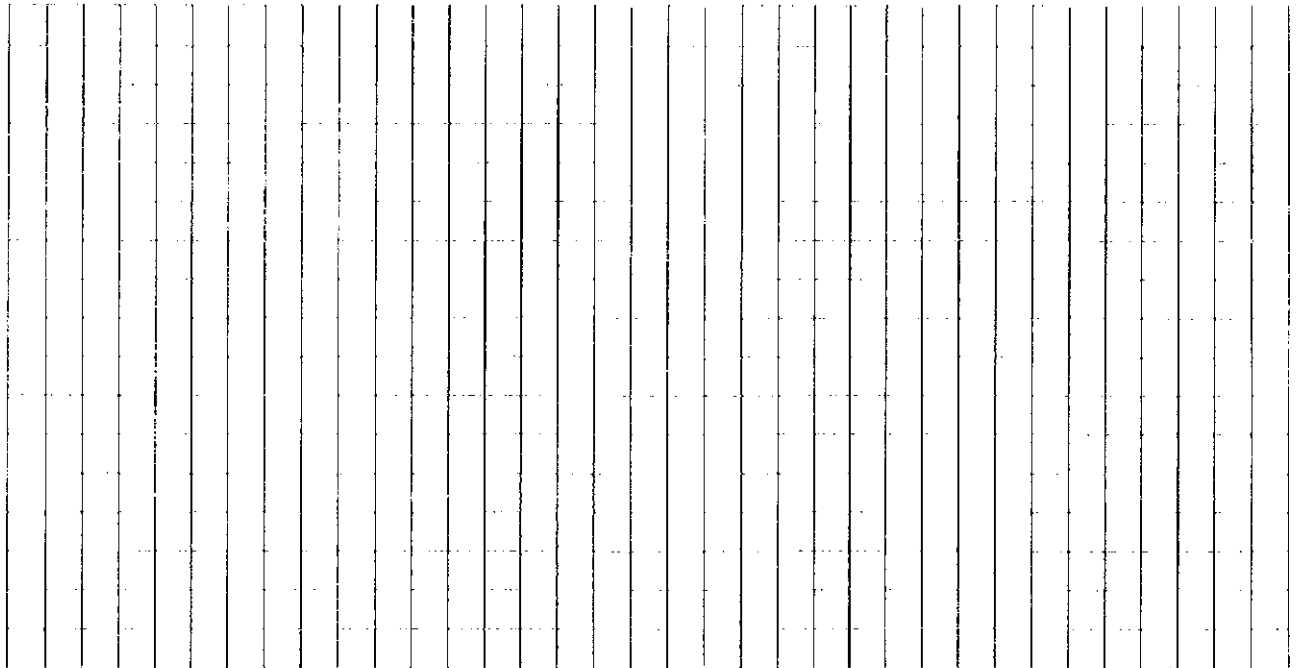
### 11. FLOOR PLANS

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

Basement:



### First Floor: 12. OUTDOOR PLOT



**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings. Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**

A large grid of graph paper, consisting of 20 vertical columns and 20 horizontal rows, intended for drawing a site sketch. The grid is empty and occupies the majority of the page below the instructions.

### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

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 Reading (units)	Photo ** Y / N
	Great Stuff	12oz	UO	polyurethane, hydrocarbons, polymeric isocyanate		Y
	Great Stuff in can	12oz	UO	-		
	Clorox disinfectant	16oz	U	-		
	Shout advanced	8.7oz	U	Surfactants		
	ant detergent	500z U	U	Surfactants		
	Clorox	2.14gal	U	-		
	Pledge	14oz	U	NO CFCs		
	ibody soap	22.5oz	U	-		
	Clorox oxygen bleach	32oz	U			
	Paint - ant	1gal/1qt	U	Latex		
	lacther care	8oz	U			
	Rep fast n fixed	8oz	U	alkaline glycol, vinyl acetate, formaldehyde		
	Rep window glaze	10.1oz	U	polyethylene glycol, crystalline silica, phosphate esters, formaldehyde		
	Bin Primer/Sealer	1qt	U	titanium dioxide, silicates		
	latex glass enamel	1qt	U	2-naphthol, 1-4-methyl-2-nitrophenyl, 1,3-dithanediol, formaldehyde, propanoic acid		
	Wepeshlock	11oz	U	toluol + xylol + Alcohol	186 ppb	
	Tarniti metal polish	9oz	U		0.6	
	Lucite	1qt	U	latex paint		
	rust oleum	1qt	U			

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* 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 ingredient labels must be legible.

Dap Wood dough wood filler 4oz U  
 Famous wood filler 6oz U  
 unitup 1qt+U petroleum distillates / aromatic hydrocarbons

0.0  
 acetone, nitrocellulose, iso propyl alcohol, methyl ethyl ketone, pet. naphthalene, dibutyl phthalate, 2400ppb

Alumax all purpose rubber solvent 10.5oz U mineral spirits 0.0

TSP-PF 16oz U sodium metasilicate 0.0

Dap caulk 4 - 10.1oz U phthalate, ethylene glycol + formaldehyde 0.0

de-ron 5min fast drying epoxy 2 - 9oz U - 0.0

armor all 10oz U - 0.0

Krylon rust tub 12oz U ketones, xylene, petroleum distillates, toluene 0.0

shoe goo U toluene + petroleum distillates 0.0

Kwik Spat Super Clean 8oz U 0.0

wall covering seam repair 3oz U - 0.0

lightweight spackling compound 8oz U

Bulls eye paint + finish remover 64oz U

2/17/12  
During EP-2 install for SSDS.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: DPBRAE-3000

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
	Leather Care (Apple Brand)	8oz	U	-	19.9ppm	Y
	Rustoleum wood (2) Saver (1987)	8oz	U	-	-	Y
	Rustoleum (1982)	32oz	U.	Aliphatic Hydrocarbons,	-	Y
	United coatings Uniturp thinner.	1qt.	U	aromatic Hydrocarbons	87ppb	Y
	MCCloskey Liquid surface prep	1 pint.	D	Aliphatic + Aromatic Hydro Carbons	-	Y
	Krylon Rust Tough Spray Paint.	12oz	U	Ketones, xylene, toluene	-	Y
	Rustoleum Painter touch	12oz (3)	U	Acetone + xylene	-	Y
	Dutch Boy (1983) Spray Enamel	12oz (2)	U	Toluol + xylol, Aromatic Hydrocarbons	1598ppb	Y
	Finish Line by Kiwi Rain + stain	10.5oz.	U	Hydrocarbons	3170ppb	Y

\* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* 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 ingredient labels must be legible.

BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

No additional chemicals of Potential concern / products not in original inventories.

## **Appendix C**

### **Data Usability Summary Reports**



**DATA USABILITY SUMMARY REPORT  
AXIOHM OU2, ITHACA, NEW YORK**

Client: EA Engineering, Science and Technology, Syracuse, New York  
SDG: 1202298  
Laboratory: VaporTrail Analytics, Rochester, New York  
Site: Axiohm OU2, Ithaca, New York  
Date: April 2, 2012

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1A	C755012A-BA-37-0212	1202298-01A	Air
1B	C755012A-BA-37-0212	1202298-01B	Air
2A	C755012A-SS-37-0212	1202298-02A	Air
2B	C755012A-SS-37-0212	1202298-02B	Air
3A	C755012A-OA-37-0212	1202298-03A	Air
3B	C755012A-OA-37-0212	1202298-03B	Air
4A	C755012A-BA-38-0212	1202298-04A	Air
4B	C755012A-BA-38-0212	1202298-04B	Air
5A	C755012A-SS-38-0212	1202298-05A	Air
5B	C755012A-SS-38-0212	1202298-05B	Air
6A	C755012A-OA-38-0212	1202298-06A	Air
6B	C755012A-OA-38-0212	1202298-06B	Air
7A	C755012A-BA-35-0212	1202298-07A	Air
7B	C755012A-BA-35-0212	1202298-07B	Air
8A	C755012A-BA-DUP-0212	1202298-08A	Air
8B	C755012A-BA-DUP-0212	1202298-08B	Air

A Data Usability Summary Review was performed on the analytical data for eight air samples collected on February 10, 2012 by EA Engineering at the Axiohm OU2 site in Ithaca, New York. The samples were analyzed under "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, January 1999, EPA/625/R-96/010B", Compendium Method TO-17, "Determination Of Volatile Organic Compounds (VOCs) In Ambient Air Using Active Sampling Onto Sorbent Tubes".

The data have been evaluated according to the protocols and quality control (QC) requirements of the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Air Samples - Volatile Organic Analysis of Ambient Air in Canister and the reviewer's professional judgment.

### Organics

The following items/criteria were reviewed for this report:

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms

- Chains-of-Custody and Traffic Reports
- Holding Times
- Laboratory Control Samples
- Surrogate Spike Recoveries
- GC/MS Tuning
- Method Blank
- Initial Calibration
- Continuing Calibration
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

### **Overall Evaluation of Data and Potential Usability Issues**

There were no rejections of data.

Overall the remaining data is acceptable for the intended purposes. Data were qualified for the following deficiencies.

- Positive results were qualified as estimated in two samples due to high surrogate recoveries.

### **Data Completeness**

- All criteria were met.

### **Cover letter, Narrative, and Data Reporting Forms**

- All criteria were met

### **Chains-of-Custody and Traffic Reports**

- The final canister vacuums for EDS sample ID #3 was measured at ambient pressure in the field and confirmed by the laboratory upon sample receipt.

### **Holding Times**

- All samples were analyzed within 30 days for air samples.

### **Laboratory Control Samples**

- The LCS samples exhibited acceptable %R values.

### **Surrogate Spike Recoveries**

- All samples exhibited acceptable surrogate %R values except the following.

Sample ID	Surrogate	%R	Qualifier
2A	1,2-Dichloroethane-d4	132%	J - Associated Positive Results
2B	1,2-Dichloroethane-d4	133%	
8B	1,2-Dichloroethane-d4	131%	

### **GC/MS Tuning**

- All criteria were met.

### **Method Blank**

- The method blanks were free of contamination.

### **Field and Trip Blanks**

- Field QC samples were not analyzed.

### **Initial Calibration**

- All %RSD and/or correlation coefficient criteria were met.

### **Continuing Calibration**

- All %D and/or RRF criteria were met.

### **Compound Quantitation**

- All criteria were met.

### **Internal Standard (IS) Area Performance**

- All criteria were met.

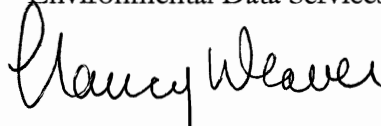
### Field Duplicate Sample Precision

- Field duplicate results are summarized below.

Compound	C755012A-BA-35-0212 ppbv	C755012A-BA-DUP-0212 ppbv	RPD	Qualifier
Tetrachloroethene	0.30	0.28	7%	None
Trichloroethene	0.21	0.25	17%	
Carbon tetrachloride	0.083	0.10	19%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Very truly yours,  
Environmental Data Services, Inc.

 4/3/12

Nancy Weaver                      Date  
Senior Chemist

## Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.







Air Toxics

1A

Client Sample ID: C755012A-BA-37-0212

Lab ID#: 1202298-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022206	Date of Collection:	2/10/12 10:37:00 AM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 01:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.079	Not Detected	0.54	Not Detected
1,1,1-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

NW  
4/2/12

1B



Air Toxics

Client Sample ID: C755012A-BA-37-0212

Lab ID#: 1202298-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022206sim	Date of Collection:	2/10/12 10:37:00 AM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 01:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.082	0.20	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

nw  
4/2/12

2A



Air Toxics

Client Sample ID: C755012A-SS-37-0212

Lab ID#: 1202298-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022208	Date of Collection:	2/10/12 10:35:00 AM
Dil. Factor:	1.61	Date of Analysis:	2/22/12 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.080	31 J	0.55	210 J
1,1,1-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	132 Q	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130

NW  
4/2/12



Air Toxics

2B

Client Sample ID: C755012A-SS-37-0212

Lab ID#: 1202298-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022208sim	Date of Collection:	2/10/12 10:35:00 AM
Dil. Factor:	1.61	Date of Analysis:	2/22/12 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Trichloroethene	0.032	2.5 J	0.17	13 J
Carbon Tetrachloride	0.032	0.069 J	0.20	0.43 J

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	133 Q	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

new  
4/2/12

3A



Air Toxics

Client Sample ID: C755012A-OA-37-0212

Lab ID#: 1202298-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022218	Date of Collection:	2/10/12 10:09:00 AM
Dil. Factor:	1.34	Date of Analysis:	2/22/12 10:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.067	Not Detected	0.45	Not Detected
1,1,1-Trichloroethane	0.067	Not Detected	0.36	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	87	70-130

NW  
4/2/12

38



Air Toxics

Client Sample ID: C755012A-OA-37-0212

Lab ID#: 1202298-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022218sim	Date of Collection:	2/10/12 10:09:00 AM
Dil. Factor:	1.34	Date of Analysis:	2/22/12 10:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
Trichloroethene	0.027	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.027	0.084	0.17	0.53

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130

MW  
4/2/12





Air Toxics

4A

Client Sample ID: C755012A-BA-38-0212

Lab ID#: 1202298-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022209	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 04:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.079	0.69	0.54	4.7
1,1,1-Trichloroethane	0.079	0.16	0.43	0.86
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130

new  
4/2/12

4B



Air Toxics

Client Sample ID: C755012A-BA-38-0212

Lab ID#: 1202298-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022209sim	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 04:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	0.12	0.17	0.66
Carbon Tetrachloride	0.032	0.072	0.20	0.45

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	95	70-130

hw  
4/2/12



Air Toxics

5A

Client Sample ID: C755012A-SS-38-0212

Lab ID#: 1202298-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022210	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	2/22/12 04:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.086	4.0	0.58	27
1,1,1-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

NW  
4/2/12  
Page 1



Air Toxics

5B

Client Sample ID: C755012A-SS-38-0212

Lab ID#: 1202298-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022210sim	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	2/22/12 04:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Trichloroethene	0.034	0.053	0.18	0.28
Carbon Tetrachloride	0.034	0.067	0.22	0.42

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	96	70-130

net  
4/2/12



Air Toxics

GA

Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	a022211	Date of Collection:	2/10/12 11:41:00 AM
Dil. Factor:	1.46	Date of Analysis:	2/22/12 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.073	Not Detected	0.50	Not Detected
1,1,1-Trichloroethane	0.073	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

NW  
4/2/12



Air Toxics

6B

Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022211sim	Date of Collection:	2/10/12 11:41:00 AM
Dil. Factor:	1.46	Date of Analysis:	2/22/12 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.037	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.078	0.18	0.49

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

NW  
4/12/12  
Page 1





Air Toxics

7A

Client Sample ID: C755012A-BA-35-0212

Lab ID#: 1202298-07A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	v022212	Date of Collection:	2/10/12 12:14:00 PM
Dil. Factor:	1.52	Date of Analysis:	2/23/12 11:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.076	0.30	0.52	2.0
1,1,1-Trichloroethane	0.076	Not Detected	0.41	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	97	70-130

HW  
4/2/12



Air Toxics

7B

Client Sample ID: C755012A-BA-35-0212

Lab ID#: 1202298-07B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	v022212sim	Date of Collection:	2/10/12 12:14:00 PM
Dil. Factor:	1.52	Date of Analysis:	2/23/12 11:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
Trichloroethene	0.030	0.21	0.16	1.1
Carbon Tetrachloride	0.030	0.083	0.19	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	100	70-130

NW  
4/2/12



Air Toxics

8A

Client Sample ID: C755012A-BA-DUP-0212

Lab ID#: 1202298-08A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	a022213	Date of Collection:	2/10/12 12:00:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 06:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.079	0.28	0.54	1.9
1,1,1-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

WJ  
4/2/12



Air Toxics

8B

Client Sample ID: C755012A-BA-DUP-0212

Lab ID#: 1202298-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022213sim	Date of Collection:	2/10/12 12:00:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 06:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	0.25 J	0.17	1.4 J
Carbon Tetrachloride	0.032	0.10 J	0.20	0.65 J

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	131 Q	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130

W  
4/2/12

**DATA USABILITY SUMMARY REPORT  
AXIOHM OU2, ITHACA, NEW YORK**

Client: EA Engineering, Science and Technology, Syracuse, New York  
SDG: 1202465  
Laboratory: VaporTrail Analytics, Rochester, New York  
Site: Axiohm OU2, Ithaca, New York  
Date: April 2, 2012

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1A	C755012A-BA-43-0212	1202465-01A	Air
1B	C755012A-BA-43-0212	1202465-01B	Air
2A	C755012A-OA-43-0212	1202465-02A	Air
2B	C755012A-OA-43-0212	1202465-02B	Air
3A	C755012A-BA-39-0212	1202465-03A	Air
3B	C755012A-BA-39-0212	1202465-03B	Air
4A	C755012A-OA-39-0212	1202465-04A	Air
4B	C755012A-OA-39-0212	1202465-04B	Air

A Data Usability Summary Review was performed on the analytical data for four air samples collected on February 27, 2012 by EA Engineering at the Axiohm OU2 site in Ithaca, New York. The samples were analyzed under “*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, January 1999, EPA/625/R-96/010B*”, Compendium Method TO-17, “*Determination Of Volatile Organic Compounds (VOCs) In Ambient Air Using Active Sampling Onto Sorbent Tubes*”.

The data have been evaluated according to the protocols and quality control (QC) requirements of the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Air Samples - Volatile Organic Analysis of Ambient Air in Canister and the reviewer's professional judgment.

### **Organics**

The following items/criteria were reviewed for this report:

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms
- Chains-of-Custody and Traffic Reports
- Holding Times
- Laboratory Control Samples
- Surrogate Spike Recoveries
- GC/MS Tuning
- Method Blank
- Initial Calibration

- Continuing Calibration
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

### **Overall Evaluation of Data and Potential Usability Issues**

There were no rejections of data.

Overall the remaining data is acceptable for the intended purposes. Data were not qualified.

### **Data Completeness**

- All criteria were met.

### **Cover letter, Narrative, and Data Reporting Forms**

- All criteria were met

### **Chains-of-Custody and Traffic Reports**

- All criteria were met.

### **Holding Times**

- All samples were analyzed within 30 days for air samples.

### **Laboratory Control Samples**

- The LCS samples exhibited acceptable %R values.

### **Surrogate Spike Recoveries**

- All samples exhibited acceptable surrogate %R values.

### **GC/MS Tuning**

- All criteria were met.



### **Method Blank**

- The method blanks were free of contamination.

### **Field and Trip Blanks**

- Field QC samples were not analyzed.

### **Initial Calibration**

- All %RSD and/or correlation coefficient criteria were met.

### **Continuing Calibration**

- All %D and/or RRF criteria were met.

### **Compound Quantitation**

- All criteria were met.

### **Internal Standard (IS) Area Performance**

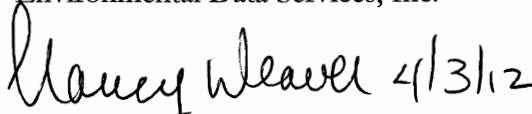
- All criteria were met.

### **Field Duplicate Sample Precision**

- Field duplicate samples were not analyzed.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Very truly yours,  
Environmental Data Services, Inc.

 Nancy Weaver 4/3/12

Nancy Weaver                      Date  
Senior Chemist

## Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.





Air Toxics

1A

Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022421	Date of Collection:	2/17/12 10:33:00 AM
Dil. Factor:	1.57	Date of Analysis:	2/25/12 08:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.078	Not Detected	0.53	Not Detected
1,1,1-Trichloroethane	0.078	0.19	0.43	1.0
1,1-Dichloroethene	0.16	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	100	70-130

nw  
4/2/12



Air Toxics

1B

Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022421sim	Date of Collection:	2/17/12 10:33:00 AM
Dil. Factor:	1.57	Date of Analysis:	2/25/12 08:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.025	0.040	0.063
Trichloroethene	0.031	0.045	0.17	0.24
Carbon Tetrachloride	0.031	0.083	0.20	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	102	70-130

ew  
4/2/12



Air Toxics

2A

Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	v022422	Date of Collection:	2/17/12 10:30:00 AM
Dil. Factor:	1.44	Date of Analysis:	2/25/12 09:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.072	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.072	Not Detected	0.39	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	103	70-130

nw  
4/2/12

26



Air Toxics

Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022422sim	Date of Collection:	2/17/12 10:30:00 AM
Dil. Factor:	1.44	Date of Analysis:	2/25/12 09:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.037	Not Detected
Trichloroethene	0.029	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.029	0.092	0.18	0.58

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	104	70-130

NW  
4/2/12





Air Toxics

3A

Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	v022423	Date of Collection:	2/17/12 10:41:00 AM
Dil. Factor:	1.47	Date of Analysis:	2/25/12 09:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.074	1.2	0.50	8.4
1,1,1-Trichloroethane	0.074	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130

new  
4/2/12

3B



Air Toxics

Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022423sim	Date of Collection:	2/17/12 10:41:00 AM
Dil. Factor:	1.47	Date of Analysis:	2/25/12 09:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.090	0.18	0.57

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130

mw  
4/2/12

4A



Air Toxics

Client Sample ID: C755012A-OA-39-0212

Lab ID#: 1202465-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022424	Date of Collection:	2/17/12 10:39:00 AM
Dil. Factor:	1.37	Date of Analysis:	2/25/12 10:13 PM

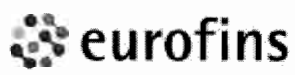
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.068	Not Detected	0.46	Not Detected
1,1,1-Trichloroethane	0.068	Not Detected	0.37	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	102	70-130

new  
4/2/12

4B



Air Toxics

Client Sample ID: C755012A-OA-39-0212

Lab ID#: 1202465-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022424sim	Date of Collection:	2/17/12 10:39:00 AM
Dil. Factor:	1.37	Date of Analysis:	2/25/12 10:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.027	0.075	0.17	0.47

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	104	70-130

nw  
4/2/12

## **Appendix D**

### **Laboratory Analytical Data Form Is, Chain of Custody Forms**



**Air  
Toxics LTD.**  
*Laboratory Services Since 1989*

Electronic Comprehensive Validation Package (eCVP)



Air Toxics

Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	<b>v022421</b>	<b>Date of Collection:</b> 2/17/12 10:33:00 AM
<b>Dil. Factor:</b>	<b>1.57</b>	<b>Date of Analysis:</b> 2/25/12 08:25 PM

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Tetrachloroethene	0.078	Not Detected	0.53	Not Detected
1,1,1-Trichloroethane	0.078	0.19	0.43	1.0
1,1-Dichloroethene	0.16	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected

**Container Type: 6 Liter Summa Canister (SIM Certified)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	100	70-130





Air Toxics

Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022421sim	Date of Collection:	2/17/12 10:33:00 AM	
Dil. Factor:	1.57	Date of Analysis:	2/25/12 08:25 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.025	0.040	0.063
Trichloroethene	0.031	0.045	0.17	0.24
Carbon Tetrachloride	0.031	0.083	0.20	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	<b>v022422</b>	<b>Date of Collection:</b> 2/17/12 10:30:00 AM
<b>Dil. Factor:</b>	<b>1.44</b>	<b>Date of Analysis:</b> 2/25/12 09:01 PM

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Tetrachloroethene	0.072	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.072	Not Detected	0.39	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected

**Container Type: 6 Liter Summa Canister (SIM Certified)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022422sim	Date of Collection:	2/17/12 10:30:00 AM	
Dil. Factor:	1.44	Date of Analysis:	2/25/12 09:01 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.037	Not Detected
Trichloroethene	0.029	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.029	0.092	0.18	0.58

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022423	Date of Collection:	2/17/12 10:41:00 AM	
Dil. Factor:	1.47	Date of Analysis:	2/25/12 09:37 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.074	1.2	0.50	8.4
1,1,1-Trichloroethane	0.074	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022423sim	Date of Collection:	2/17/12 10:41:00 AM
Dil. Factor:	1.47	Date of Analysis:	2/25/12 09:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.090	0.18	0.57

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: C755012A-OA-39-0212

Lab ID#: 1202465-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022424	Date of Collection:	2/17/12 10:39:00 AM	
Dil. Factor:	1.37	Date of Analysis:	2/25/12 10:13 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.068	Not Detected	0.46	Not Detected
1,1,1-Trichloroethane	0.068	Not Detected	0.37	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.54	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: C755012A-OA-39-0212

Lab ID#: 1202465-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022424sim	Date of Collection:	2/17/12 10:39:00 AM
Dil. Factor:	1.37	Date of Analysis:	2/25/12 10:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.027	0.075	0.17	0.47

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	104	70-130





# CHAIN-OF-CUSTODY RECORD

**Sample Transportation Notice**  
 Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B  
 FOLSOM, CA 95630-4719  
 (916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager: Robert Casey

Collected by: (Print and Sign) David Crandall

Company: EA Engineering Email: rcasey@east.com

Address: 6712 Brooklawn City: Syracuse State: NY Zip: 13211

Phone: 315 431 4610 Fax: 315 431 4280

<b>Project Info:</b>		<b>Turn Around Time:</b>		<b>Lab Use Only</b>	
P.O. #	Project # <u>14368.19 0005</u>	<input checked="" type="checkbox"/> Normal	Pressurized by:	Date:	Pressurization Gas:
Project Name: <u>ATHACA</u>	<u>Onsite</u>	<input type="checkbox"/> Rush			N <sub>2</sub> He
		specify			

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
01AB	C755012A-BA-43-0212	34320	2/16/12	1034-1033	T0-15	-29	-4.5	
02AB	C755012A-DA-43-0212	5673	2/16/12	1041-1030	T0-15	-29	-0.5	
03AB	C755012A-BA-39-0212	14871	2/16/12	1057-1041	T0-15	-29	-3	
04AB	C755012A-DA-39-0212	35269	2/16/12	1103-1039	T0-15	-30	-0.5	
Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>2/17/12 1500</u> Received by: (signature) <u>[Signature]</u> Date/Time <u>2/22/12 1030</u>								
Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____								

Notes: Report PCE, TCE, 1,1-DCE, trans-1,2-DCE, cis-1,2-DCE, 1,1,1-TCA, VC, & carbon tetr. only

Relinquished by: (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by: (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Shipper Name: UPS Air Bill #: NA Temp (°C): 50.0 Condition: None Custody Seals Intact? Yes No None Work Order #: 1202465



Air Toxics

Client Sample ID: C755012A-BA-37-0212

Lab ID#: 1202298-01A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	<b>a022206</b>	<b>Date of Collection:</b> 2/10/12 10:37:00 AM
<b>Dil. Factor:</b>	<b>1.58</b>	<b>Date of Analysis:</b> 2/22/12 01:34 PM

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Tetrachloroethene	0.079	Not Detected	0.54	Not Detected
1,1,1-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

**Container Type: 6 Liter Summa Canister (SIM Certified)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: C755012A-BA-37-0212

Lab ID#: 1202298-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022206sim	Date of Collection:	2/10/12 10:37:00 AM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 01:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.082	0.20	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: C755012A-SS-37-0212

Lab ID#: 1202298-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022208	Date of Collection:	2/10/12 10:35:00 AM
Dil. Factor:	1.61	Date of Analysis:	2/22/12 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.080	31	0.55	210
1,1,1-Trichloroethane	0.080	Not Detected	0.44	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	132 Q	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: C755012A-SS-37-0212

Lab ID#: 1202298-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022208sim	Date of Collection:	2/10/12 10:35:00 AM
Dil. Factor:	1.61	Date of Analysis:	2/22/12 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Trichloroethene	0.032	2.5	0.17	13
Carbon Tetrachloride	0.032	0.069	0.20	0.43

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	133 Q	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: C755012A-OA-37-0212

Lab ID#: 1202298-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022218	Date of Collection:	2/10/12 10:09:00 AM
Dil. Factor:	1.34	Date of Analysis:	2/22/12 10:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.067	Not Detected	0.45	Not Detected
1,1,1-Trichloroethane	0.067	Not Detected	0.36	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	87	70-130

Client Sample ID: C755012A-OA-37-0212

Lab ID#: 1202298-03B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	a022218sim	<b>Date of Collection:</b> 2/10/12 10:09:00 AM
<b>Dil. Factor:</b>	1.34	<b>Date of Analysis:</b> 2/22/12 10:30 PM

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
Trichloroethene	0.027	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.027	0.084	0.17	0.53

**Container Type: 6 Liter Summa Canister (SIM Certified)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130





Air Toxics

Client Sample ID: C755012A-BA-38-0212

Lab ID#: 1202298-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022209	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 04:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.079	0.69	0.54	4.7
1,1,1-Trichloroethane	0.079	0.16	0.43	0.86
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: C755012A-BA-38-0212

Lab ID#: 1202298-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022209sim	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 04:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	0.12	0.17	0.66
Carbon Tetrachloride	0.032	0.072	0.20	0.45

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: C755012A-SS-38-0212

Lab ID#: 1202298-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022210	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	2/22/12 04:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.086	4.0	0.58	27
1,1,1-Trichloroethane	0.086	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: C755012A-SS-38-0212

Lab ID#: 1202298-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022210sim	Date of Collection:	2/10/12 12:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	2/22/12 04:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
Trichloroethene	0.034	0.053	0.18	0.28
Carbon Tetrachloride	0.034	0.067	0.22	0.42

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022211	Date of Collection:	2/10/12 11:41:00 AM
Dil. Factor:	1.46	Date of Analysis:	2/22/12 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.073	Not Detected	0.50	Not Detected
1,1,1-Trichloroethane	0.073	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.58	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a022211sim	Date of Collection:	2/10/12 11:41:00 AM
Dil. Factor:	1.46	Date of Analysis:	2/22/12 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.037	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.078	0.18	0.49

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: C755012A-BA-35-0212

Lab ID#: 1202298-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022212	Date of Collection:	2/10/12 12:14:00 PM
Dil. Factor:	1.52	Date of Analysis:	2/23/12 11:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.076	0.30	0.52	2.0
1,1,1-Trichloroethane	0.076	Not Detected	0.41	Not Detected
1,1-Dichloroethene	0.15	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected
cis-1,2-Dichloroethene	0.15	Not Detected	0.60	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	97	70-130





Air Toxics

Client Sample ID: C755012A-BA-35-0212

Lab ID#: 1202298-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v022212sim	Date of Collection:	2/10/12 12:14:00 PM
Dil. Factor:	1.52	Date of Analysis:	2/23/12 11:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
Trichloroethene	0.030	0.21	0.16	1.1
Carbon Tetrachloride	0.030	0.083	0.19	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: C755012A-BA-DUP-0212

Lab ID#: 1202298-08A

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

<b>File Name:</b>	<b>a022213</b>	<b>Date of Collection:</b> 2/10/12 12:00:00 PM
<b>Dil. Factor:</b>	<b>1.58</b>	<b>Date of Analysis:</b> 2/22/12 06:50 PM

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Tetrachloroethene	0.079	0.28	0.54	1.9
1,1,1-Trichloroethane	0.079	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected

**Container Type: 6 Liter Summa Canister (SIM Certified)**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

Client Sample ID: C755012A-BA-DUP-0212

Lab ID#: 1202298-08B

**MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN**

File Name:	a022213sim	Date of Collection:	2/10/12 12:00:00 PM
Dil. Factor:	1.58	Date of Analysis:	2/22/12 06:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	0.25	0.17	1.4
Carbon Tetrachloride	0.032	0.10	0.20	0.65

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	131 Q	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130



**CHAIN-OF-CUSTODY RECORD**

**Sample Transportation Notice**

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FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager: Robert Casey  
 Collected by: (Print and Sign) Dave Crandall  
 Company: EA Engineering, Inc. Email: rcasey@earth.com  
 Address: 6112 Brookman Hwy Ste 104 City: Syracuse State: NY Zip: 13211  
 Phone: 315 431 4610 Fax: 315 431 4280

Project Info:  
 P.O. #: \_\_\_\_\_  
 Project #: 14368.19 0005  
 Project Name: Itasca Offsite  
 Turn Around Time:  Normal  Rush  
 Lab Use Only: Pressurized by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Pressurization Gas: \_\_\_\_\_  
 specify: N<sub>2</sub> He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
01A	C755012A-BA-37-0212	10770	2/10/12	1037-1037	T0-15	-29	0.5	
04A	C755012A-55-37-0212	14873	2/10/12	1035-1035	T0-15	-30	-5.5	
03A	C755012A-0A-37-0212	15603	2/10/12	1041-1009	T0-15	-30	-3	
04A	C755012A-BA-38-0212	925	2/10/12	1210-1210	T0-15	-30	-7	
05A	C755012A-55-38-0212	3475	2/10/12	1210-1210	T0-15	-30	-6.5	
06A	C755012A-0A-38-0212	34740	2/10/12	1220-1141	T0-15	-29	-3	
07A	C755012A-BA-35-0212	10767	2/10/12	1244-1214	T0-15	-30	-6	
08A	C755012A-BA-Dup-0212	1586	2/10/12	1200-1200	T0-15	-29.5	-4	

Notes:  
 Report only the following analytes:  
 PCE, TCE, 1,1-DCE, trans-1,2-DCE,  
 cis-1,2-DCE, 1,1,1-TCA, V<sub>6</sub> Carbon  
 ref.

Relinquished by: (signature) [Signature] Date/Time: 2/10/12 1100 TO VBS  
 Received by: (signature) [Signature] Date/Time: 2/14/12 0920  
 Relinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Shipper Name: VPS Air Bill #: \_\_\_\_\_ Temp (°C): NA Condition: Good Custody Seals Intact?  Yes  No  None Work Order #: 1202298