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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Date

July 2012 Version: FINAL EA Project No. 14368.19

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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)¹, 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.

^{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

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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® 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.

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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 subslab 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., $0.37-0.53~\mu g/m^3$). 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)¹. 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.

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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)¹. 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.

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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

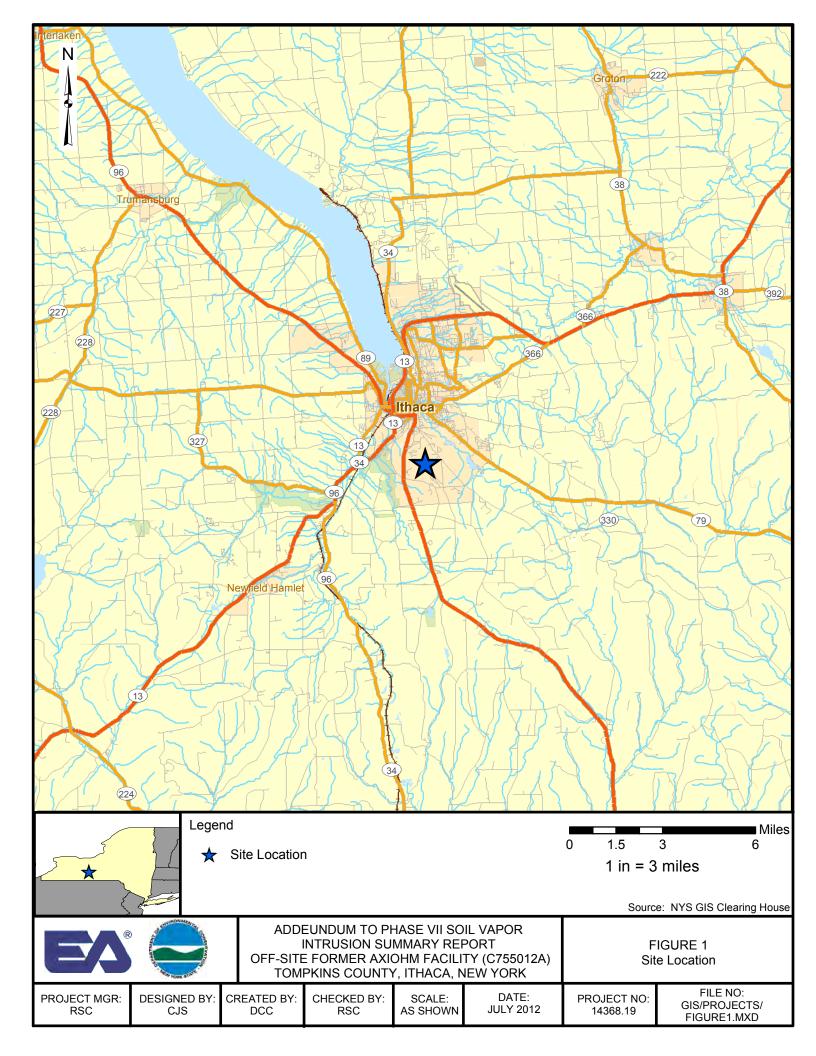
EDS validated the analytical data package submitted to EA by Air Toxics, Ltd. Analytical data packages are submitted as SDGs based on the number of samples within each shipment receipted at the laboratory for analysis. The SDG associated with this soil vapor sampling event was reviewed for completeness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

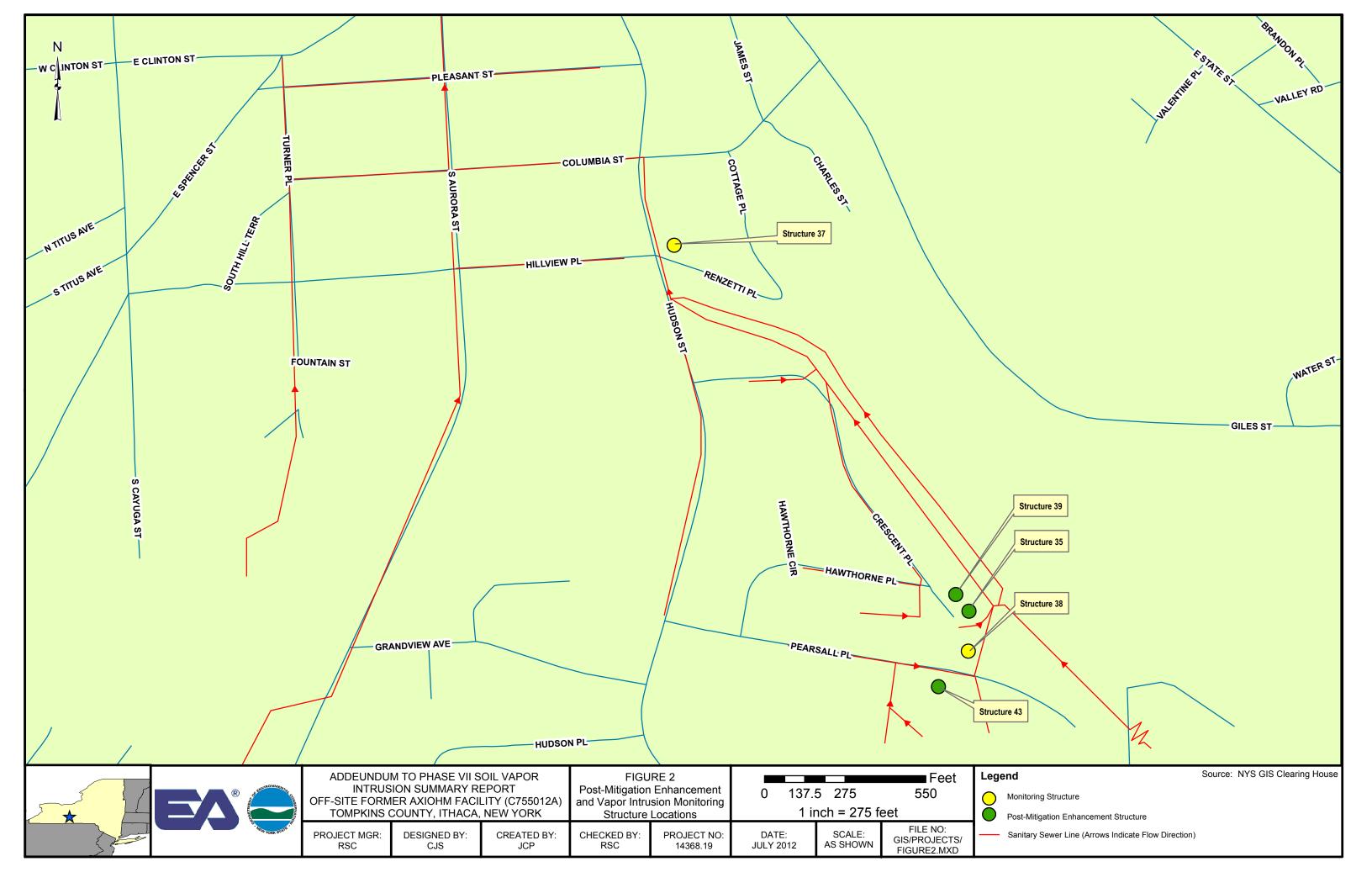
EDS completed data validation for one SDG and submitted a data usability summary report for the SDG reviewed for this soil vapor sampling event. Overall, the data were acceptable for their intended use; select samples were qualified for various reasons and are identified in the associated table.

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.





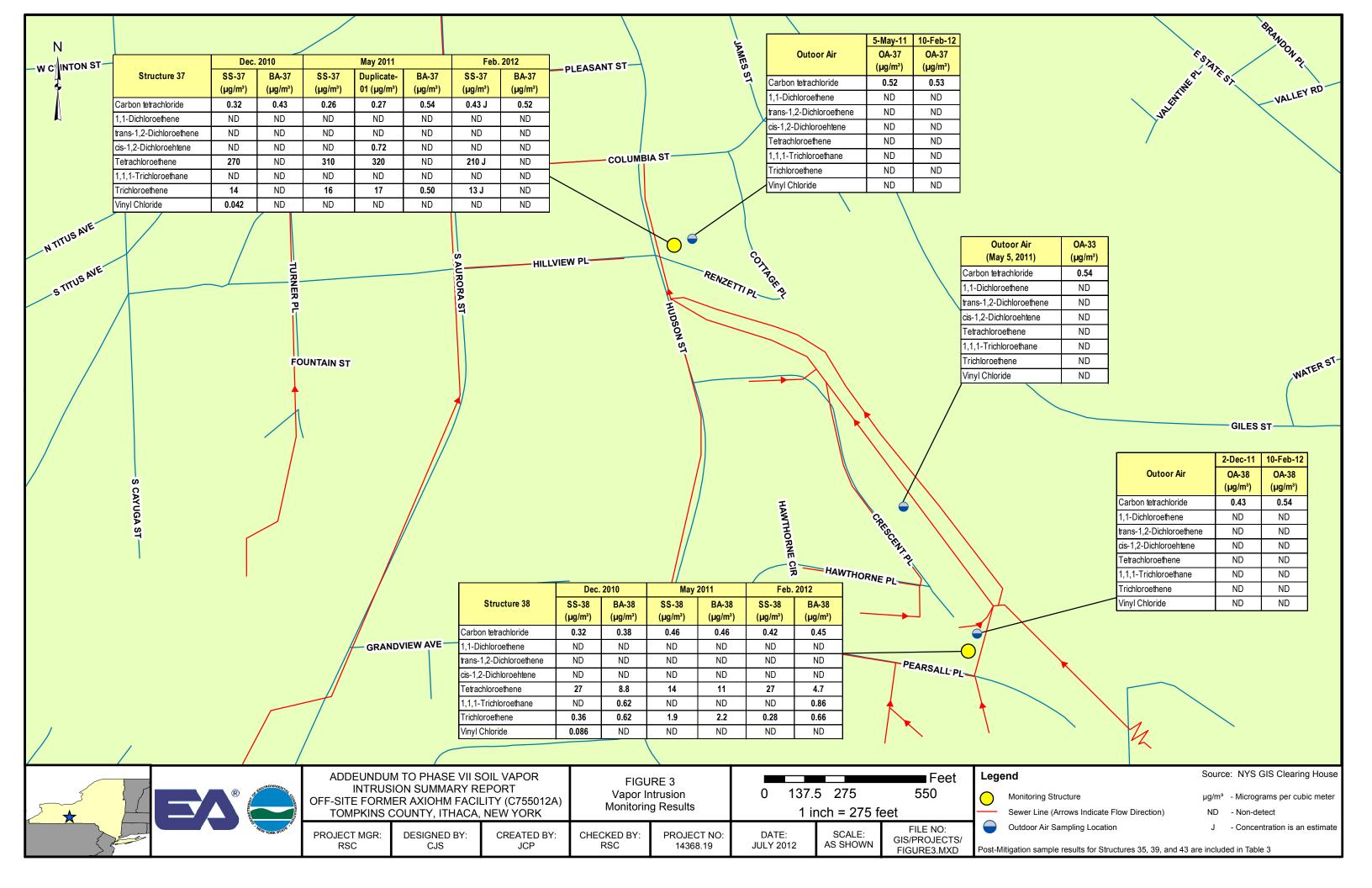


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TABLE 1 SAMPLING AND ANALYTICAL PROGRAM – FEBRUARY 2012

		V	OCs - TO-	15
	Sample Matrix	Sub- slab Vapor	Indoor Air	Outdoor Air
VAPOR INT	RUSION M		ING SAM	PLES
No. of Samples		2	2	2
Field Duplicate	Vanor/Air			
Field Blank	Vapor/Air			
MS/MSD				
Total No. of Ana	lyses	2	3	2
POST-MITIG	ATION EN	HANCEM	IENT SAN	IPLES
No. of Samples			3	2
Field Duplicate	Air		1	
Trip Blank	Alf			
MS/MSD				
Total No. of Ana	lyses		4	2
NOTE: VOCs	= Volatil	e 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

	Property ID						Str	ucture 37					
	Sample ID	C755012A-SS-	37	C755012A-BA-	-37	C755012A-OA-3	38	C755012A-SS-37-0	0511	C755012A-BA-37-	-0511	C755012A-SS-DUP-0	1-0511
	Lab ID	1012126BR1-26A	/26B	1012126BR1-25A	1012126BR1-25A/25B		29B	1105141A-07A/07B		1105141A-06A/0)6B	1105141A-10A/1	OB
Parameter List	Sample Type	Sub-slab Vapo	Sub-slab Vapor B			Outdoor Air		Sub-slab Vapor		Basement Indoor Air		Sub-slab Vapor Dup	licate
EPA Method TO-15	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
						27							
	Property ID			1			ucture 37						
	Sample ID	C755012A-OA-37	-0511	C755012A-SS-37-	-0212	C755012A-BA-37-0212 C755012A-OA-37			37				
	Lab ID	1105141A-08A/0)8B	1202298-02A/0	2B	1202298-01A/01B 1202298-03A/03B							
Parameter List	Sample Type	Outdoor Air		Sub-slab Vapo	or	Basement Indoor Air Outdoor Air							
EPA Method TO-15	G 1 D :					Buscinent indoor	Aır	Outdoor Air					
	Sample Date	5/5/2011		2/10/2012		2/10/2012	Aır	2/10/2012					
Carbon Tetrachloride	(µg/m3)	5/5/2011 0.52		2/10/2012 0.43	J		Air						
Carbon Tetrachloride 1,1- Dichloroethene			U		J U	2/10/2012	Air U	2/10/2012	U				
	(μg/m3)	0.52	U	0.43	J U U	2/10/2012 0.52		2/10/2012 0.53	U				
1,1- Dichloroethene	(μg/m3) (μg/m3)	0.52 (<0.82)		0.43 (<0.64)		2/10/2012 0.52 (<0.63)	U	2/10/2012 0.53 (<0.53)	_				
1,1- Dichloroethene trans-1,2- Dichloroethene	(μg/m3) (μg/m3) (μg/m3)	0.52 (<0.82) (<0.82)	U	0.43 (<0.64) (<0.64)	Ü	2/10/2012 0.52 (<0.63) (<0.63)	U U	2/10/2012 0.53 (<0.53) (<0.53)	U				
1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene	(μg/m3) (μg/m3) (μg/m3) (μg/m3)	0.52 (<0.82) (<0.82) (<0.82)	U	0.43 (<0.64) (<0.64) (<0.64)	Ü	2/10/2012 0.52 (<0.63) (<0.63) (<0.63)	U U U	2/10/2012 0.53 (<0.53) (<0.53) (<0.53)	U				
1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene Tetrachloroethene	(μg/m3) (μg/m3) (μg/m3) (μg/m3) (μg/m3)	0.52 (<0.82) (<0.82) (<0.82) (<0.70)	U U U	0.43 (<0.64) (<0.64) (<0.64) 210	U U J	2/10/2012 0.52 (<0.63) (<0.63) (<0.63) (<0.54)	U U U	2/10/2012 0.53 (<0.53) (<0.53) (<0.53) (<0.53)	U U U				

NOTE: EPA = U.S. Environmental Protection Agency

 $\mu g/m3$ = micrograms per cubic meter

 $U \hspace{1cm} = \hbox{The analyte was analyzed for, but was not detected above the sample reporting limit.}$

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

	Property ID					Structure 38					
	Sample ID	C755012A-SS-3	8	C755012A-BA-3	38	C755012A-OA-3	38	C755012A-SS-38-0)511	C755012A-BA-38	3-0511
	Lab ID	1012126BR1-28A/2	28B	1012126BR1-27A/	27B	1012126BR1-29A/	29B	1105141B-14A/14	4B	1105141B-14A	/14B
Parameter List	Sample Type	Sub-slab Vapor		Basement Indoor Air		Outdoor Air		Sub-slab Vapor		Basement Indoor Air	
EPA Method TO-15	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
				, ,							
	Property ID			` , , , , , , , , , , , , , , , , , , ,		Structure 38	<u>'</u>	<u> </u>		<u> </u>	
	Property ID Sample ID	C755012A-OA-33-()511	C755012A-SS-38-0)212	Structure 38 C755012A-BA-38-0	0212	C755012A-OA-3	38		
		C755012A-OA-33-0		C755012A-SS-38-(1202298-05A/05				C755012A-OA-3			
Parameter List	Sample ID				В	C755012A-BA-38-0	В				
Parameter List EPA Method TO-15	Sample ID Lab ID	1105141A-09A/09		1202298-05A/05	В	C755012A-BA-38-0 1202298-04A/04	В	1202298-06A/06			
	Sample ID Lab ID Sample Type	1105141A-09A/09 Outdoor Air		1202298-05A/05 Sub-slab Vapor	В	C755012A-BA-38-0 1202298-04A/04 Basement Indoor	В	1202298-06A/06 Outdoor Air			
EPA Method TO-15	Sample ID Lab ID Sample Type Sample Date	1105141A-09A/09 Outdoor Air 5/5/2011		1202298-05A/05 Sub-slab Vapor 2/10/2012	В	C755012A-BA-38-0 1202298-04A/04 Basement Indoor 2 2/10/2012	В	1202298-06A/06 Outdoor Air 2/10/2012			
EPA Method TO-15 Carbon Tetrachloride	Sample ID Lab ID Sample Type Sample Date (µg/m3)	1105141A-09A/09 Outdoor Air 5/5/2011 0.54	ЭВ	1202298-05A/05 Sub-slab Vapor 2/10/2012 0.42	В .	C755012A-BA-38-0 1202298-04A/04 Basement Indoor 2/10/2012 0.45	B Air	1202298-06A/06 Outdoor Air 2/10/2012 0.49	В		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3)	1105141A-09A/09 Outdoor Air 5/5/2011 0.54 (<0.56)	B U	1202298-05A/05 Sub-slab Vapor 2/10/2012 0.42 (<0.68)	B	C755012A-BA-38-0 1202298-04A/04 Basement Indoor 2/10/2012 0.45 (<0.63)	B Air U	1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58)	B U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3)	1105141A-09A/09 Outdoor Air 5/5/2011 0.54 (<0.56) (<0.56)	U U	1202298-05A/05 Sub-slab Vapor 2/10/2012 0.42 (<0.68) (<0.68)	B U U	C755012A-BA-38-0 1202298-04A/04 Basement Indoor 2/10/2012 0.45 (<0.63) (<0.63)	B Air U U	1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58) (<0.58)	B U U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3)	1105141A-09A/09 Outdoor Air 5/5/2011 0.54 (<0.56) (<0.56)	U U U	1202298-05A/05 Sub-slab Vapor 2/10/2012 0.42 (<0.68) (<0.68)	B U U	C755012A-BA-38-0 1202298-04A/04 Basement Indoor 2/10/2012 0.45 (<0.63) (<0.63)	B Air U U	1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58) (<0.58)	B U U U U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene Tetrachloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3) (µg/m3)	1105141A-09A/09 Outdoor Air 5/5/2011 0.54 (<0.56) (<0.56) (<0.56) (<0.48)	U U U U U	1202298-05A/05 Sub-slab Vapor 2/10/2012 0.42 (<0.68) (<0.68) (<0.68)	B U U U U U	C755012A-BA-38-0 1202298-04A/04 Basement Indoor . 2/10/2012 0.45 (<0.63) (<0.63) 4.7	B Air U U	1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58) (<0.58) (<0.58)	B U U U U U U U		

TABLE 3 POST-MITIGATION ENHANCEMENT VAPOR INTRUSION ANALYTICAL DATA

	Property ID					Structure 35 ^(a)							
	Sample ID	C755012A-BA-	35	C755012A-OA-3	38	C755012A-BA-35-0	0511	C755012A-BA-35A	-0511	C755012A-OA-33	-0511	C755012A-VT	A-35
	Lab ID	1012126BR1-21A	/21B	1012126BR1-29A/	29B	1105141A-04A/04B 1105141A-05A/05B			1105141A-09A/)9B	1494		
Parameter List	Sample Type	Basement Indoor	Air	Outdoor Air		Basement Indoor A	Air	Basement Indoor	Air	Outdoor Air		Sub-Slab Vapor	
EPA Method TO-15	Sample Date	12/1/2010		12/2/2010		5/5/2011		5/5/2011		5/5/2011		6/10/2011	
Carbon Tetrachloride	(µg/m3)	0.43		0.43		0.55		0.55		0.54		0.39	
1,1- Dichloroethene	(µg/m3)	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	2.80	
trans-1,2- Dichloroethene	(µg/m3)	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	(<1.1)	U
cis-1,2- Dichloroethene	(µg/m3)	(<0.54)	U	(<0.61)	U	(<0.67)	U	(<0.65)	U	(<0.56)	U	9.0	U
Tetrachloroethene	(µg/m3)	1.3		(<0.52)	U	1.1		2.6		(<0.48)	U	33.0	
1,1,1- Trichloroethane	(µg/m3)	(<0.37)	U	(<0.42)	U	(<0.46)	U	(<0.45)	U	(<0.38)	U	2.4	
Trichloroethene	(µg/m3)	0.36		(<0.17)	U	0.83		5.4		(<0.15)	U	16	
Vinyl Chloride	(µg/m3)	(<0.035)	U	(<0.040)	U	(<0.043)	U	(<0.42)	U	(<0.036)	U	(<0.45)	UJ
						Structure 35 ^(a)							
	Property ID					9	tructu	re 35 ^(a)					
	Property ID	C755012A Field B	Nonk	C755012A BA 35	0212				38				
	Sample ID	C755012A-Field B	Blank	C755012A-BA-35-		C755012A-BA-DUP	-0212	C755012A-OA-					
		C755012A-Field E	Blank	C755012A-BA-35- 1202298-07A/07		C755012A-BA-DUP-	-0212 B						
Paramatar Liet	Sample ID				В	C755012A-BA-DUP	-0212 B	C755012A-OA-					
Parameter List EPA Method TO-15	Sample ID Lab ID	1495		1202298-07A/07	В	C755012A-BA-DUP- 1202298-08A/08 Basement Indoor	-0212 B	C755012A-OA- 1202298-06A/06					
Parameter List EPA Method TO-15 Carbon Tetrachloride	Sample ID Lab ID Sample Type Sample Date	1495 QA/QC - Field Bl		1202298-07A/07 Basement Indoor	В	C755012A-BA-DUP- 1202298-08A/08 Basement Indoor A Duplicate	-0212 B	C755012A-OA- 1202298-06A/00 Outdoor Air					
EPA Method TO-15	Sample ID Lab ID Sample Type	1495 QA/QC - Field BI 6/10/2011	ank	1202298-07A/07 Basement Indoor 2/10/2012	В	C755012A-BA-DUP- 1202298-08A/08: Basement Indoor A Duplicate 2/10/2012	-0212 B	C755012A-OA- 1202298-06A/06 Outdoor Air 2/10/2012					
EPA Method TO-15 Carbon Tetrachloride	Sample ID Lab ID Sample Type Sample Date (µg/m3)	1495 QA/QC - Field BI 6/10/2011 (<0.1)	ank	1202298-07A/07 Basement Indoor 2/10/2012 0.52	'B Air	C755012A-BA-DUP- 1202298-08A/08 Basement Indoor A Duplicate 2/10/2012 0.65	-0212 B Air	C755012A-OA- 1202298-06A/06 Outdoor Air 2/10/2012 0.49	6B				
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3)	1495 QA/QC - Field BI 6/10/2011 (<0.1) (<0.2)	ank U U	1202298-07A/07 Basement Indoor 2/10/2012 0.52 (<0.60)	Air U	C755012A-BA-DUP 1202298-08A/08 Basement Indoor A Duplicate 2/10/2012 0.65 (<0.63)	-0212 B Air J U	C755012A-OA- 1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58)	6B U				
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3)	1495 QA/QC - Field BI 6/10/2011 (<0.1) (<0.2) (<0.1)	ank U U U	1202298-07A/07 Basement Indoor 2/10/2012 0.52 (<0.60) (<0.60)	Air U U	C755012A-BA-DUP 1202298-08A/08 Basement Indoor A Duplicate 2/10/2012 0.65 (<0.63) (<0.63)	-0212 B Air J U	C755012A-OA- 1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58) (<0.58)	5B U U U				
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3)	1495 QA/QC - Field BI 6/10/2011 (<0.1) (<0.2) (<0.1) (<0.1)	ank U U U U	1202298-07A/07 Basement Indoor 2/10/2012 0.52 (<0.60) (<0.60) (<0.60)	Air U U	C755012A-BA-DUP 1202298-08A/08 Basement Indoor A Duplicate 2/10/2012 0.65 (<0.63) (<0.63)	-0212 B Air J U	C755012A-OA- 1202298-06A/06 Outdoor Air 2/10/2012 0.49 (<0.58) (<0.58)	5B U U U U 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.

U

(<0.040)

U

(<0.037)

U

(<0.2)

(<0.039)

NOTE: = U.S. Environmental Protection Agency EPA

μg/m3 = micrograms per cubic meter

= The analyte was analyzed for, but was not detected above the sample reporting limit.

 $(\mu g/m3)$

QA/QC = Quality Assurnace/Quality Control = Reported value is an estimate.

The analytical data results provided by Air Toxics, LTD.

Data validation completed by Environmental Data Services, Inc.

Vinyl Chloride

U

TABLE 3 POST-MITIGATION ENHANCEMENT VAPOR INTRUSION ANALYTICAL DATA

	Property ID						Struc	ture 39					
	Sample ID	C755012A-BA-	39	C755012A-OA-38		C755012A-BA	C755012A-BA-39		C755012A-OA-33-0511		-0212	C755012A-OA-39-0212	
	Lab ID	1012126BR1-30A	/30B	1012126BR1-29A	/29B	1105141B-02A/02B		1105141A-09A/09B		1202465-03A/03B		1202465-04A/0)4B
Parameter List	Sample Type	Basement Indoor	Air	Outdoor Air		Basement Indoor	Basement Indoor Air		Outdoor Air		Basement Indoor Air		
EPA Method TO-15	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

		1									
	Property ID					Structure 43		T			
	Sample ID	C755012A-SS-4	13	C755012A-BA-	43	C755012A-ULTR.	A-43	C755012A-RAD-	-43	C755012A-OA-	-44
Parameter List	Lab ID	1012390AR1-06A	/06B	1012390AR1-05A	05A/05B 1012261B-04A			1012261A-03 <i>A</i>	1012390AR1-09A/09B		
EPA Method TO-15,	Sample Type	Sub-slab Vapor	r	Basement Indoor	Basement Indoor Air		Air	Basement Indoor	Air	Outdoor Air	
Passive Ultra III & TO-17	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	$(\mu g/m3)$	(<3.9)	U	(<0.57)	U	(<0.14)	U	(<0.044)	U	(<0.50)	U
cis-1,2- Dichloroethene	$(\mu g/m3)$	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	$(\mu g/m3)$	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
	Property ID					Structure 43					
	Property ID Sample ID	C755012A-BA-43-	0711	C755012A-OA-	43	Structure 43 C755012A-BA-43-	0212	C755012A-OA-43-	0212		
		C755012A-BA-43- 1107285-03A/03		C755012A-OA- 1012390AR1-05A				C755012A-OA-43- 1202465-02A/02			
Parameter List	Sample ID		ЗВ			C755012A-BA-43-	1B				
Parameter List EPA Method TO-15	Sample ID Lab ID	1107285-03A/03	ЗВ	1012390AR1-05A		C755012A-BA-43- 1202465-01A/0	1B	1202465-02A/02			
	Sample ID Lab ID Sample Type	1107285-03A/03 Basement Indoor	ЗВ	1012390AR1-05A Outdoor Air		C755012A-BA-43- 1202465-01A/0 Basement Indoor	1B	1202465-02A/02 Outdoor Air			
EPA Method TO-15	Sample ID Lab ID Sample Type Sample Date	1107285-03A/03 Basement Indoor 7/14/2011	ЗВ	1012390AR1-05A Outdoor Air 7/14/2011		C755012A-BA-43- 1202465-01A/02 Basement Indoor 2/17/2012	1B	1202465-02A/02 Outdoor Air 2/17/2012			
EPA Method TO-15 Carbon Tetrachloride	Sample ID Lab ID Sample Type Sample Date (µg/m3)	1107285-03A/03 Basement Indoor 7/14/2011 0.44	BB Air	1012390AR1-05A Outdoor Air 7/14/2011 0.53	/05B	C755012A-BA-43- 1202465-01A/0 Basement Indoor 2/17/2012 0.52	Air	1202465-02A/02 Outdoor Air 2/17/2012 0.58	2B		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3)	1107285-03A/03 Basement Indoor 7/14/2011 0.44 (<0.74)	Air U	1012390AR1-05A Outdoor Air 7/14/2011 0.53 (<0.55)	/05B	C755012A-BA-43- 1202465-01A/0 Basement Indoor 2/17/2012 0.52 (<0.62)	Air U	1202465-02A/02 Outdoor Air 2/17/2012 0.58 (<0.57)	2B U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3)	1107285-03A/03 Basement Indoor 7/14/2011 0.44 (<0.74) (<0.74)	BB Air U U	1012390AR1-05A Outdoor Air 7/14/2011 0.53 (<0.55) (<0.55)	/05B U U	C755012A-BA-43- 1202465-01A/0 Basement Indoor 2/17/2012 0.52 (<0.62) (<0.62)	Air U U	1202465-02A/02 Outdoor Air 2/17/2012 0.58 (<0.57) (<0.57)	PB U U U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3) (µg/m3)	1107285-03A/03 Basement Indoor 7/14/2011 0.44 (<0.74) (<0.74) (<0.74)	Air U U U U	1012390AR1-05A Outdoor Air 7/14/2011 0.53 (<0.55) (<0.55) (<0.55)	/05B U U U	C755012A-BA-43- 1202465-01A/0 Basement Indoor 2/17/2012 0.52 (<0.62) (<0.62)	Air U U U U	1202465-02A/02 Outdoor Air 2/17/2012 0.58 (<0.57) (<0.57)	U U U		
EPA Method TO-15 Carbon Tetrachloride 1,1- Dichloroethene trans-1,2- Dichloroethene cis-1,2- Dichloroethene Tetrachloroethene	Sample ID Lab ID Sample Type Sample Date (µg/m3) (µg/m3) (µg/m3) (µg/m3) (µg/m3)	1107285-03A/03 Basement Indoor 7/14/2011 0.44 (<0.74) (<0.74) (<0.74) (<0.63)	Air U U U U	1012390AR1-05A Outdoor Air 7/14/2011 0.53 (<0.55) (<0.55) (<0.55) (<0.47)	/05B U U U U U U	C755012A-BA-43- 1202465-01A/0 Basement Indoor 2/17/2012 0.52 (<0.62) (<0.62) (<0.62) (<0.53)	Air U U U U	1202465-02A/02 Outdoor Air 2/17/2012 0.58 (<0.57) (<0.57) (<0.57) (<0.49)	U U U U		

Appendix A Daily Field Reports

DAILY OBSERVATION	REPORT		Day: M	Date: 6	e: 6 February 2012			
	NYSDEC	Te	emperature: (F)	30	(am)	50	(pm)	
		١	Wind Direction:	SW	(am)	SW	(pm)	
Ithaca Offsite			Weather:	(am) sun	ny/overcast	t		
NYSDEC Site # C75501	12A			(pm) sun	ny			
Contract # D-00438-19			Arrive at site	1000	(am)			
Ithaca, New York			Leave site:	415	(pm)			
HEALTH & SAFETY:								
Are there any changes to the (If yes, list the deviation unde		?	Yes ()	No (x)				
Are monitoring results at acce	eptable levels?	Soil	Yes ()	n/a (x)	* No()		
		Waters Air	Yes () Yes ()	n/a (x) n/a (x)	* No(* No(
OTHER ITEMS:		7 111	•		ide comment	,		
Site Sketch Attached: Photos Taken:		(x)						
DESCRIPTION OF DAILY W David Crandall with EA onsite assess floor drain in finished infiltrating to basement through	e 1000am. Bob Gann portion of basement a	on and John						
Met with homeowner and inspeneath floor drain, fill in void potential.								
At 1100, NYSDEC representathat 5" to 4" fernco will be utilipurchase required parts, the was filled completed with pear	ized to connect 4" pvo clay drain line was cle	c line betwee eared out and	n the 2 sections d connected with	of clay pip n ferncos/F	oe. After Az PVC piping.	tech le Void u	ft site to	
In addition. The carpeting was were sealed by Aztech. Carp					cracks obse	rved in	the floor	
EA and Aztech left site at 415	ōpm.							
PROJECT TOTALS:								
SAMPLING (Soil/Water/Air) Contractor Sample ID:	DEC Samp	le ID:		Des	cription:			
								

Daily Observation Report Page 1 of 3

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)

Day: Monday Date: 6 February 2012

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 Observation Report Page 2 of 3

DAILY PHOTOLOG



Cleaning out of floor drain/drain tile area



Day: Monday Date: 6 February 2012

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 Page 3 of 3

NYSDEC Site # C755012A



NYSDEC

Date: 7 February 2012 Day: Tuesday Temperature: (F) 25 (am)

Wind Direction: NW (am) NW (pm)

35 (pm)

Ithaca Offsite Weather: (am) clear

(pm) overcast

Arrive at site Contract # D-00438-19 715 (am)

Leave site: Ithaca, New York 305 (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 () * No () n/a(x)Air Yes () n/a (x) * No ()

OTHER ITEMS: If No, provide comments

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

DAILY OBSERVATION REPORT DESCRIPTION OF DAILY WORK PERFORMED:

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.

Day: Tuesday Date: 7 February 2012

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. 2nd 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 Page 2 of 4

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: PROJECT SCHEDULE ISSUES: PROJECT BUDGET ISSUES:** None. **ITEMS OF CONCERN: COMMENTS:** ATTACHMENT(S) TO THIS REPORT:

Day: Tuesday Date: 7 February 2012

SITE REPRESENTATIVE:

Name: David Crandall

cc:

Daily Observation Report Page 3 of 4

DAILY OBSERVATION REPORT DAILY PHOTOLOG



Concrete/Bedrock cored for EP-2



Day: Tuesday Date: 7 February 2012

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 Page 4 of 4

NYSDEC Site # C755012A



NYSDEC

Day: Wednesday Date: 8 February 2012

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

(am)

WNW

(pm)

Wind Direction: WNW

Ithaca Offsite

Woother: (am) of the control of the control

Weather: (am) overcast

(pm) overcast

Contract # D-00438-19 Arrive at site 700 (am)

Ithaca, New York Leave site: 430 (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 ()

OTHER ITEMS:

• If No, provide comments

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

Daily Observation Report Page 1 of 5

DAILY OBSERVATION REPORT DESCRIPTION OF DAILY WORK PERFORMED:

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.

Day: Wednesday Date: 8 February 2012

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	-0.0030.015	12.5	24.5
3	-0.0070.009	10.75	21.5
4	-0.0050.007	7	11
5*	-0.003	13	8
6*	-0.0010.004	14	4
7	-0.002	17	7
8	-0.008	6	8
9*	-0.001	9	13.5
10*	0.0000.023	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.

_	_	_	_	_	_				_	_
D	D	റ			CT	т.	∩-	ТΛ		е.

SAMPLING (Soil/Water/Air) Contractor Sample ID:	DEC Sample ID:	Description:

Daily Observation Report Page 2 of 5

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)

Day: Wednesday Date: 8 February 2012

(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 Page 3 of 5

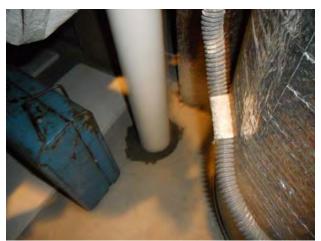
DAILY PHOTOLOG



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 Page 4 of 5

Day: Wednesday Date: 8 February 2012

Daily Observation Report Page 5 of 5



NYSDEC

Temperature: (F) 20

Day: Thursday

(am)

(am)

41 (pm)

(pm)

Date: 9 February 2012

W

Ithaca Offsite

Wind Direction: W

> Weather: (am) overcast

> > (pm) sunny

NYSDEC Site # C755012A

Arrive at site

730 (am)

Leave site:

430 (pm)

HEALTH & SAFETY:

Ithaca, New York

Contract # D-00438-19

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

Soil

Air

Yes () No (x)

Are monitoring results at acceptable levels?

Waters

Yes () n/a(x)Yes ()

* No () * No ()

OTHER ITEMS:

Site Sketch Attached: Photos Taken:

Yes (No(x)No () Yes (x)

Daily Observation Report

Page 1 of 5

Yes () n/a (x)

n/a (x) * No ()

If No, provide comments

DAILY OBSERVATION REPORT DESCRIPTION OF DAILY WORK PERFORMED:

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

Day: Thursday Date: 9 February 2012

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 Page 2 of 5

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)

Day: Thursday Date: 9 February 2012

(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 Page 3 of 5

DAILY OBSERVATION REPORT DAILY PHOTOLOG



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



Day: Thursday Date: 9 February 2012

Resealed sump pit in Structure 39.



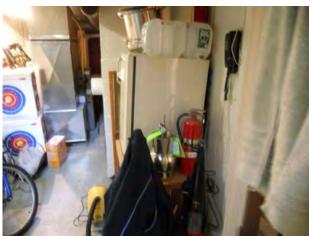
Structure 37 - Basement Air and Sub-Slab Vapor



Structure 37 - Outdoor Air



Structure 38 - Sub-Slab Vapor



Structure 38 - Basement Air

Daily Observation Report Page 4 of 5



Date: 9 February 2012



Basment Air Sample/Duplicate - Structure 35

Daily Observation Report Page 5 of 5



NYSDEC

Day: FridayTemperature: (F) 25

(am)

34 (pm)

Date: 10 February 2012

Wind Direction:

n: SW

(am)

SW (pm)

Ithaca Offsite

Weather: (am) sunny

NYSDEC Site # C755012A

Arrive at site

930 (am)

(pm) sunny

Ithaca, New York

Leave site:

1230 (pm)

HEALTH & SAFETY:

Contract # D-00438-19

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

Air

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

• If No, provide comments

OTHER ITEMS:

Site Sketch Attached: Photos Taken:

Yes () No (x) 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 Page 1 of 2

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:

Day: Friday Date: 10 February 2012

SITE REPRESENTATIVE:

Name: David Crandall

cc:

Daily Observation Report Page 2 of 2

DAILY OBSERVATION REPORT Day: Friday Date: 16 February 2012 Temperature: (F) 36 (am) NA (pm) **NYSDEC** Wind Direction: SW (am) NA (pm) Ithaca Offsite Weather: (am) Light Rain/Overcast (pm) NA NYSDEC Site # C755012A Contract # D-00438-19 Arrive at site 1035 (am) Leave site: 1130 Ithaca, New York (am) **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 () Yes () * No () Air n/a(x)**OTHER ITEMS:** If No, provide comments

DESCRIPTION OF DAILY WORK PERFORMED:

Yes (

Yes (

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.

No(x)

No(x)

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:

Site Sketch Attached:

Photos Taken:

Contractor Sample ID:	DEC Sample ID:	Description:
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 Page 1 of 3

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:
PROJECT SCHEDULE ISSUES:

Day: Friday Date: 16 February 2012

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: David Crandall

cc:

Daily Observation Report Page 2 of 3

Daily Photolog



Structure 43 - Basement Air



Structure 43 – Outdoor Air



Structure 39 - Basement Air

Day: Friday Date: 16 February 2012



Structure 39 - Outdoor Air

Daily Observation Report Page 3 of 3

DAILY OBSERVATION REPORT Day: Friday Date: 17 February 2012 Temperature: (F) 41 (am) NA (pm) **NYSDEC** Wind Direction: SW (am) NA (pm) Ithaca Offsite Weather: (am) Sunny (pm) NA NYSDEC Site # C755012A Contract # D-00438-19 Arrive at site 1030 (am) Leave site: Ithaca, New York 1130 (am) **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 () * No () Air Yes () n/a (x) **OTHER ITEMS:** If No, provide comments

DESCRIPTION OF DAILY WORK PERFORMED:

Yes (

Yes (

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.

No(x)

No(x)

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

Offsite 1130am.

PROJECT TOTALS:

Site Sketch Attached:

Photos Taken:

Description:
asement Air, and Outdoor air resamples for TO-15
asement Air, and Outdoor air resamples for TO-15

Daily Observation Report Page 1 of 2

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: 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 Page 2 of 2

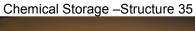
Appendix B

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



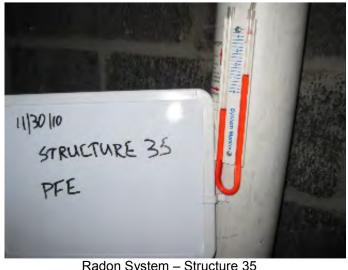
Chemical Storage - Structure 35



Chemical Storage –Structure 35



Chemical Storage –Structure 35



Radon System - Structure 35

Radon System - Structure 35

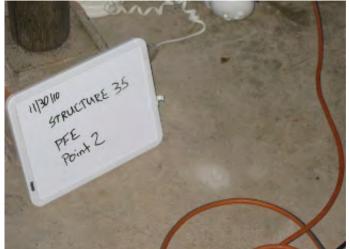




Radon System – Structure 35

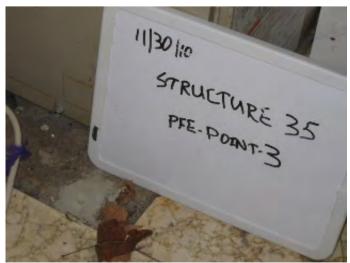
Radon System – Structure 35





PFE point 1 – Structure 35

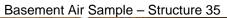
PFE point 2 – Structure 35



PFE point 3 – Structure 35

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







Basement Air Sample - 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

	(R)	EA Engineering a	nd Its Affiliate		Project #:	14368.19 0002		
					Project Name: Ithaca OffSite			
A CONTRACTOR OF THE PARTY OF TH		6712 Brooklawn Parkway, Suite 104			Location:	Ithaca NY		
		Syracuse, NY 132	11		Project Manager: R. Casey/K. Cahill			
Sample Location	Information:				, ,			
					0.000	D Const	2011	
Site ID Number: PID Meter Used:					Sampler(s):	Iding I.D. No.: D CRANDACC		
(Model, Serial #)					Building I.D. No.:	Structu	re.35	
SUMMA Canister								
INDOOR AIR -	The state of the state of	INDOOR AIR	- BASEMENT	SUBSLAB	SOIL GAS	OUTDO	OR AIR	
Flow Regulator No.:	40444	Flow Regulator No.:	40107	Flow Regulator No.:		Flow Regulator No.:	Į.	
Canister Serial No.:	1586	Canister Serial No.:	10767	Canister Serial No.:	13/	Canister Serial No.:		
Start Date/Time:	219112	Start Date/Time:	10767 21912 1249	Start Date/Time:		Start Date/Time:		
Start Pressure:	-29.5	Start Pressure:	-30	Start Pressure:		Start Pressure:	/	
(inches Hg)	2/10/12-	(inches Hg)	210/12	(inches Hg)	/	(inches Hg)		
Stop Date/Time:	1214	Stop Date/Time:	1214	Stop Date/Time:		Stop Date/Time:		
Stop Pressure:	-4	Stop Pressure:	-6	Stop Pressure:		Stop Pressure:		
(inches Hg) Sample ID:		(inches Hg) Sample ID:	25 4213	(inches Hg) Sample ID:		(inches Hg) Sample ID:		
C755012A	-BA-DUP-	Sample ID: C755012A-	BA-35-0212					
Other Sampling I	nformation:							
Story/Level	Bonst	Story/Level	BSMT office.	Basement or Crawl Space?		Direction from Building		
Room	Bsmt 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?	7	Barometric Pressure?	-	Ground Surface Condifion (Crawl Space Only)		Intake Tubing Uséd?		
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)	Opph	PID Reading (ppb)	0006	PID Reading (ppb)		PID Reading (ppb)		
Duplicate Sample?	71	Duplicate Sample?	-	Duplicate Sample?		Duplicate Sample?		
Duplicate Sample? Comments:	ample	Duplicate Sample?		The second secon	is prev	Duplicate Sample?		
_								
Sampler Signature	2:							

		Syracuse, NY 132	11		Project Manager:	Bob Casey/Karen Cahill
Sample Location	Information:					
iite ID Number:		C755012A			Sampler(s):	DC/SB
PID Meter Used: Model, Serial #)	ppbRAE				Building I.D. No.:	35
SUMMA Caniste						
INT INDOOR AIR	- FIRST-FLOOR.	INDOOR AII	R - BASEMENT	SUBSLAB	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:	7	Start Pressure:	-29.5	Start Pressure:		Start Pressure:
inches Hg)	>-30	(inches Hg)	55111	(inches Hg)		(inches Hg)
Stop Date/Time:	5110933	Stop Date/Time:	5/5/11	Stop Date/Time:		Stop Date/Time:
Stop Pressure:	7	Stop Pressure:		Stop Pressure:		Stop Pressure:
inches Hg)	-	(inches Hg)	-5.5	(inches Hg)		(inches Hg)
Sample ID:		Sample ID:		Sample ID:		Sample ID:
Story/Level	Information: -65	Story/Level Acount		Basement or Crawl Space?		Direction from Building
Room	Brown	BAGnest		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:	SQA on	avrer	Side	in living	Space	
owner (egnosed Spoke	Client RAD	REMOVE THIS PORTION AND I FOR YOUR RECORDS 2106323 ON TESTING CORP. OF			
	mple e				LVI.V. I	120.

EAS 6712 Syrac mple Location Information: Site ID Number: PID Meter Used: (Model, Serial #) JMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: art Date/Time: Start art Pressure: chees Hg) Stop Pressure: stop Pressure: chees Hg) (inches Hg)	INDOOR AIR - Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	C75012A PPBRAE BASEMENT LVDDD 345996 LIBRAID 1548		Location: Project Manager: Sampler(s): Building I D. No.:	NYSDEC C75012A Offsite Ax Ithaca, NY Bob Casey/Karen Cahill OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: (inches Hg)	
Syrace Imple Location Information: Site ID Number: PID Meter Used: (Model, Serial #) UMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: Lant Date/Time: Lart Pressure: Inches Hg) Stop S	INDOOR AIR - Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	C75012A ppbRAE BASEMENT 10252 2459960 113410 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Dale/Time: Start Pressure: (inches Hg)	Project Manager: Sampler(s): Building I.D. No.:	OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	35-
Syrace Site ID Number: PID Meter Used: (Model, Serial #) UMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: Lart Date/Time: Lart Pressure: Inches Hg) Stop Sto	INDOOR AIR - Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	C75012A ppbRAE BASEMENT 10252 2459960 113410 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)	Sampler(s): Building I.D. No.:	OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	35-
Site ID Number: PID Meter Used: (Model, Serial #) UMMA Canister Record: INDOOR AUR - FIRST FLOOR ow Regulator No.: anister Serial No.: Canister Serial No.: Start Date/Time: storp Date/Time: stop Pressure: (inches Hg) (inches Hg) (inches Hg) (inches Hg)	INDOOR AIR - Regulator No.: Ster Serial No.: Date/ Time: Pressure: les Hg) Date/ Time: Pressure:	PPDRAE BASEMENT 10252 3459960 112010 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)	Building I.D. No.:	OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	35
Site ID Number: PID Meter Used: (Model, Serial #) UMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: anister Serial No.: Canister Teresure: Cart Pressure: Canister Pressure: Canister Pressure: Canister Pressure: Conches Hg) Conches Hg) Conches Hg) Conches Hg) Conches Hg) Conches Hg)	Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	PPDRAE BASEMENT 10252 3459960 112010 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)	Building I.D. No.:	OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	35
PID Meter Used: (Model, Serial #) UMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: anister Serial No.: Canister Late / Time: Start Pressure: inches Hg) top Date / Time: Stop Pressure: inches Hg) (Inches Hg)	Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	PPDRAE BASEMENT 10252 3459960 112010 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)	Building I.D. No.:	OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	35 <u>-</u>
(Model, Serial #) UMMA Canister Record: INDOOR AIR - FIRST FLOOR ow Regulator No.: anister Serial No.: Canister Date/Time: Inches Hg) Stop Date/Time: Stop Pressure: (inches Hg) Canister Serial No.: Stop Date/Time: Stop Pressure: (inches Hg)	Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	BASEMENT 1020 345996 12410 12410 1548	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)		OUTDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	
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ow Regulator No.: Anister Serial No.: Canister Lart Date/Time: Start Pressure: nches Hg) Stop Stop Stop Pressure: Stop Pressure: Stop	Regulator No.: Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	10030 359960 113010 1635 -250 211110 1548	Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg)		Canister Serial No.: Start Date/Time: Start Pressure:	
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anister serial No. lart Date/fime: Start int Pressure: Start inches Hg) (inch top Date/fime: Stop top Pressure: Stop inches Hg) (inch	Date/Time: Pressure: les Hg) Date/Time: Pressure: les Hg)	113010 1695 -30 21110 1548	Start Date/Time: Start Pressure: (inches Hg)		Start Date/Time: Start Pressure:	
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tart Pressure: Inches Hg) Stop Date/Time: Stop Pressure: Inches Hg) Stop Pressure: Inches Hg)	Date/fime: Pressure: nes Hg)	alil10 1548	(inches Hg)			
top Pressure: Stop Pressure: Stop Fressure: Stop (inches Hg)	Date/fime: Pressure: nes Hg)	alil10 1548				
stop Date/Time: Stop Stop Pressure: (inches Hg)	ressure: nes Hg)	alilio 1548	Cian Data/Time	T .	(merces rig)	
top Pressure: Stop Inches Hg)	ressure: nes Hg)	dillip 1010	Stup Date/ Hitte.		Stop Date/Time:	
inches Hg) (inch	nes Hg)		Stop Pressure:		Stop Pressure:	
incirco 2167		-1,5	(inches Hg)	<u> </u>	(inches Hg)	
C	pie IV:		Sample ID:		Sample 1D:	
	755013A	- 0A-35				
Other Sampling Information:			Basement or		Direction	
Story/Level Stor	y/Level	Brownet	Crawl Space?	_	from Building	
Room	Q om	,	Floor Slab Thickness (inches) (if present)		Distance from Bullding	
		Dimiert		 	Intake Height Above	
Indoor Air Temp (°F)	aot Air Temp	~501.	Potential Vapor Entry Points Observed?		Ground Level (ft.)	
Ran	ometric Pressure?		Ground Surface		Intake Tubing	
Barometric Pressure?	ometric Tresseres	na	Condition (Crawl Space Only)		Used?	
[nt	ake Height Above		If slab, intake Depth		Distance to	
	oor Level (ft.)	~3'	If Crawl Space, intal height	(e)	nearest Roadway	
		0.11.22	Noticeable Odor?		Noticeable Odor?	
Noticeable Outri	ticeable Odor?	neve	PID Reading (ppb)	- 	PID Reading (ppb)	
TID Resulting (PP to)	D Reading (ppb)	0	Duplicate Sample?	-	Duplicate Sample?	
Duplicate Sample?	uplicate Sample?	nono.	12.47			



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

	for each residence involved in indoor air testing.
Preparer's Name Jacob Lim	Date/Time Prepared
Preparer's Affiliation <u>Independent Consultant</u>	- EA Engineering Phone No. 315-431-4610
Purpose of Investigation: Ithaca Offsite For	rmer Axiohm Facility C75012A
1. OCCUPANT: Interviewed: Y/N	
Last Name:	First Name:
Address	
County: Januario	
Home Phone:	Office Phone:
Number of Occupants/persons at this location _	Age of Occupants
2. OWNER OR LANDLORD: (Check if same	e as occupant)
Interviewed: Y/N	
Last Name:	First Name:
Address:	
County:	
Home Phone:	Office Phone:



3. BUILDING CHARACTERISTICS Type of

Building: (Circle appro	opriate respon	ise)	
(Residential)	School	Commerc	ial/Multi-use
	Church	Other: _	
If the property is resid	lential, type	? (Circle appro	priate response)
Ranch			
Raised Ranch	2-Family Split Lev		3-Family Colonial
Cape Cod	Cod Contemporary		Mobile Home
Duplex	Apartment House		Townhouses/Condos
Modular	Log Hon	ne	Other: I family adolias
Other characteristic Number of floors	sidences (i.e.	Solver	Other: Dfamily coloridad. 144/166 PY/N If yes, how many? 1154/2005 ght? 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:	1014	crawlspace	slab	other
b. Basement type.	100	ora w ispace	Jillo	
c. Basement floor:	concrete		stone	other
d. Basement floor:	uncovered 164	covered li	covered w	ith <u>NY</u>
e. Concrete floor:	unsealed 64	sealed	sealed with	n
f. Foundation walls:	poured	block 10th	stone	other
g. Foundation walls:	unsealed	sealed 164	sealed with	1
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished (unfinished (4)	par	tially finished
j. Sump present?	YN			
k. Water in sump?	N /not applicable	10		
Basement/Lowest level depth to Identify potential soil vapor endrains)		C (feet) proximate siz	ze (e.g., cra	cks, utility ports,
6. HEATING, VENTING and	AIR CONDITION	NING		
Type of heating system(s) used primary) Hot air circulation - He Stream radiation - Radi Outdoor wood boiler -	at pump - Hot wat ant floor - Electric	er baseboard	- Space He	eaters -
The primary type of fuel used Natural Gas Fuel Oil - Keron Domestic hot water tank fuele Boiler/furnace located in: Base Air conditioning: Central Air Are there air distribution duct	d by: Outdoors Window units -	Cucios - Main Floor	OCメ) - Other	

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	Ω	\boldsymbol{C}	CI	ΙP	A	N	CY
				/	_		

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)
1 44	1 166
Basement Stragelauxhy	
1st Floor Living O Wilchon	Lyliung Kitchen
2nd Floor hairona	Darroms
3 rd Floor	
4 th Floor	
1	

8, FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY a. Is there an attached garage? b. Does the garage have a separate heating unit? c. Are petroleum-powered machines or vehicles Please specify stored in the garage (e.g., lawnmower, atv, car) Y (N) When? d. Has the building ever had a fire? Where? e. Is a keroscne or unvented gas space heater present? Y /(N) Where & Type? _____ f. Is there a workshop or hobby/craft area? Y //N) How frequently? g. Is there smoking in the building? Y (N) When & Type? ______ h. Have cleaning products been used recently? Y /(N) _When & Type? _____ i. Have cosmetic products been used recently? j. Has painting/staining been done in the last 6 (V) N When & Type? Ill sile some Douthing months? Y /(N) Where & When? k. Is there new carpet, drapes or other textiles? When & Type? _______ If yes, where vented? I. Have air fresheners been used recently? m. Is there a kitchen exhaust fan? If yes, where vented? Y/N If yes, is it vented outside? W/N 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: Y (N) Do any of the building occupants use solvents at work? (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

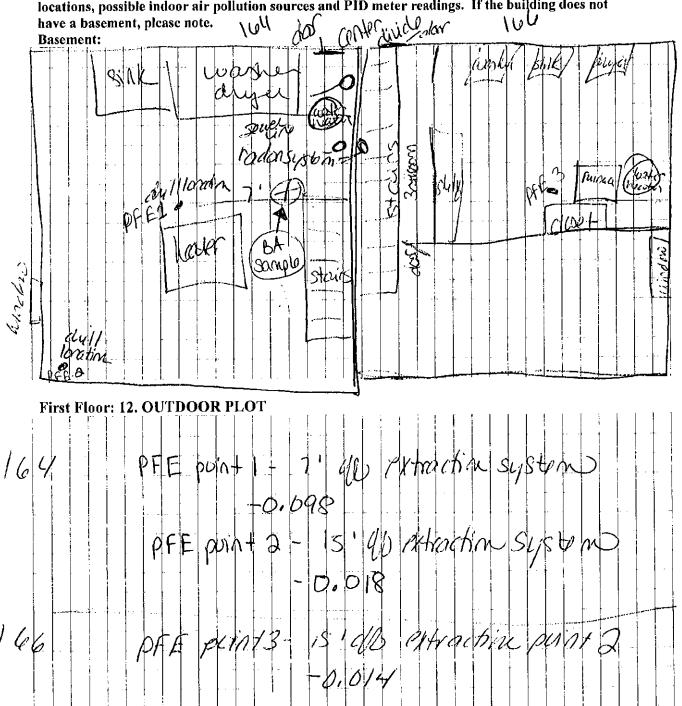
there a radon mitigation system for the building/structure? YN Date of Installation:
the system active or passive? Active/Passive
, WATER AND SEWAGE
Vater Supply (Public Water Drilled Well Driven Well Dug Well Other:
ewage Disposal Public Sewer Septic Tank Leach Field Dry Well Other:
.10. RELOCATION 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



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 man

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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
16-	Clack distrigent	4/1/02	land	Sufactants	b,O	4
DUDY CIVED	com Hannuc	bib	7	11	<u> </u>	<u> </u>
1	Brice	lox				
	Woolite	4000		11	_	
	new ha patricomis	درنو/ (*	isoproul alianal	✓	<u> </u>
	110	_		* * 1		
1:6	acortspatsmand	10 3	702	the classic divines are consistent and in principles with the contract and	washing and the state of the st	a sout displaying
DE MY		-1Ga	1 rosd	Latex	0.6	9
(mint	lat	GUI		0.0	
	maint	7.75	02 6,000		0,0	
	WOYD	802		petroloum dishilates	0,0	
	Motoroil				0.0	
<u> </u>	phyrskinnaffid	1250	2	etrologia / zinc fro plushat	e 0.0	
	Brake flia] oi)	00	
	Park-anti heere	bul		Al Maylinichy Child	10.0	
	Laupuil	1/360		sil icales	-6.0	
	si conweter quero	1	u	polymers/100	0,0	1
	Tackyglue	40	u	, , ,		
	SUNGOUM PRIME	Į,	••	mlaine Jachny / Kylore	16,0pm	<u> </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.

ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

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

Alabely Lubble Dollar Contact of acttateslalayile formetical formetical actions of the contact of the

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



Sub Slab Air Sample – Structure 37

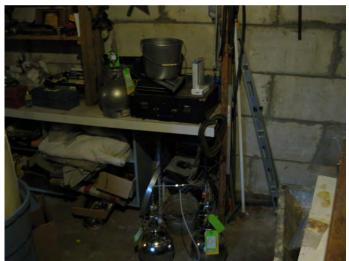


Basement Air Sample - Structure 37



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



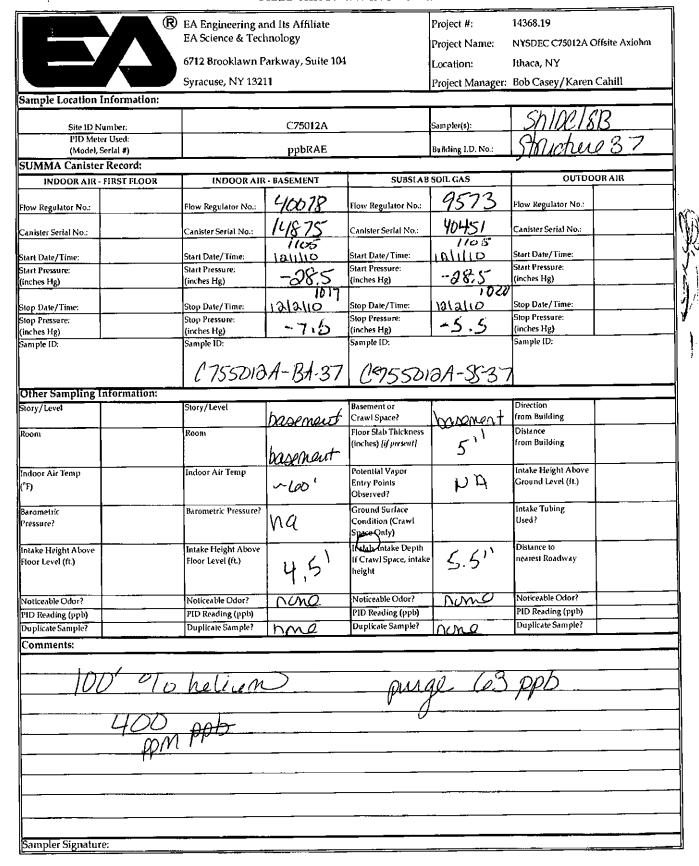
Basement Air/Sub-Slab Vapor Samples - Structure 37



Outdoor Air Sample- Structure 37

Sample Location Information: Site ID Number:	INDOOR AIR - egulator No.: er Serial No.: erssure: Hg) ate/Time: essure: Hg)	rkway, Suite 104	SUBSLAB : Flow Regulator No.:	Location: Project Manager: Sampler(s): Building I.D. No.:	OUTDO Flow Regulator No.: Canister Serial No.: Start Date/Time:	andal) TURE-37 ORAIR 40555 5603 31911304)
Syrac Sample Location Information: Interest ID Number: ID Meter Used: Model, Serial #) SUMMA Canister Record: INDOOR AIR - FIRST FLOOR Iow Regulator No.: Canister Serial No.: Canister Serial No.: Start Date/Time: Itart Pressure: Inches Hg) Stop Date/Time: Stop Do Pressure: Inches Hg) Syrac Syrac Canister Start Prior Stop Do Stop Pressure: Inches Hg)	INDOOR AIR - egulator No.: er Serial No.: erssure: Hg) ate/Time: essure: Hg)	BASEMENT 40143	SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	Project Manager: Sampler(s): Building I.D. No.: SOIL GAS 14873 14873 21912 1035	R. Casey/K. Cahill OUTDO Flow Regulator No.: Canister Serial No.: Start Date/Time:	TURE-37 ORAIR 40555 5603
ite ID Number: TO SOLA TO Meter Used: Model, Serial #) FUMMA Canister Record: INDOOR AIR - FIRST FLOOR IOW Regulator No.: To Anister Serial No.:	INDOOR AIR- egulator No.: or Serial No.: ate/Time: ressure: Hg) ate/Time:	BASEMENT 43 10770	SUBSLAB: Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	Sampler(s): Building I.D. No.: SOIL GAS 14873 21912 1035	OUTDO Flow Regulator No.: Canister Serial No.: Start Date/Time:	TURE-37 ORAIR 40555 5603
ite ID Number: ID Meter Used: Model, Serial #) PPLRAE RUMMA Canister Record: INDOOR AIR - FIRST FLOOR Iow Regulator No.: Canister Start Date/Time: Inches Hg) Stop Date/Time: Iop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg) Stop Pressure: Inches Hg)	egulator No.: er Serial No.: er Serial No.: er seri	10770	SUBSLAB: Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	Sampler(s): Building I.D. No.: SOIL GAS 14873 21912 1035	OUTDO Flow Regulator No.: Canister Serial No.: Start Date/Time:	TURE-37 ORAIR 40555 5603
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tow Regulator No.: Flow R anister Serial No.: Caniste tart Date/Time: Start Pressure: start Pressure: start Pressure: start Pressure: start Pressure: start Pressure: Start Pressure: Stop Date/Time: Stop Date/Time: Stop Pressure: stop Press	egulator No.: er Serial No.: ate/Time: ressure: Hg) ate/Time: ressure: Hg)	10770	Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure:	10439	Flow Regulator No.: Canister Serial No.: Start Date/Time:	40555 5603
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		X	Stop Pressure: (inches Hg)	-5-	Stop Pressure: (inches Hg)	- 3
C75	ID:	-3		-5.5	Sample ID:	
NI C I C	5011	BA-37-0212	C18201701.2	12210010	C755012A-	-OH->1-Val
Other Sampling Information:	Taual I	17	Passament or	2	Direction	
lory/Level Story/	Levei	BSM	Basement or Crawl Space?	KSMd	Direction from Building	E
oom Room			Floor Slab Thickness (inches) [if present]	511	Distance from Building	20+
ndoor Air Temp Indoor PF)	Air Temp	Band 39+	Potential Vapor Entry Points Observed?	_	Intake Height Above Ground Level (ft.)	20ft
arometric Barome ressure?	etric Pressure?	_	Ground Surface Condition (Crawl Space Only)	-	Intake Tubing Used?	stee!
	Height Above evel (ft.)	45+.	If slab, intake Depth If Crawl Space, intake height	5.511	Distance to nearest Roadway	50 Ft
Vii. II ol 2	11.01.3				Noticeable Odor?	
	able Odor? ading (ppb)	A == 1	Noticeable Odor? PID Reading (ppb)	631 PPS	PID Reading (ppb)	Onch
		OPPS		631 PPS	Duplicate Sample?	Oppo.
	ate Sample?	- Domi	Duplicate Sample?	02171~		PFO

	A [®]	EA Science & Tec	hnology Parkway, Suite 104		Project #: Project Name: Location: Project Manager:	14368.19 Ithaca Off-Site Ithaca, NY Bob Casey/Karen Cal	sill
Sample Location	Information:	-,			roject manager.	boo cuscy/ Karen cu	
		CZEE012A				DCBB	
Site ID Number: PID Meter Used:		C755012A			Sampler(s):	00100	
(Model, Serial #)	ppbRAE				Building I.D. No.:	6	
SUMMA Canist		T 255522313	re-establish	T		l overn	oon un
INDOOR AIR	- FIRST FLOOR	INDOOR AIR	R - BASEMENT	SUBSLAE	SOIL GAS	OUID	OOR AIR
Flow Regulator No.:		Flow Regulator No.:	40242	Flow Regulator No.:	40521	Flow Regulator No.:	4016A
Canister Serial No.:		Canister Serial No.:	34002	Canister Serial No.:	4339	Canister Serial No.:	R-18
Start Date/Time:		Start Date/Time:	5/4/11 1149	Start Date/Time:	dal11 1148		J411 1158
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-28.5	Start Pressure: (inches Hg)	- 30+	Start Pressure: (inches Hg)	-28.5
			1.1	, , , ,	55/11 1142		dd 150
Stop Date/Time: Stop Pressure:		Stop Date/Time: Stop Pressure:	5/5/11/145	Stop Date/Time: Stop Pressure:	2011 112	Stop Date/Time: Stop Pressure:	2011 112 1
(inches Hg)		(inches Hg)	-5.5	(inches Hg)	-4	(inches Hg)	-10.5
Sample ID:		Sample ID: C755012	CA- IA-	Sample ID:		Sample ID: C7550 12 A	-0A-37-
Other Sampling	Information	310,	311	C150012A-	55-37-05	11	
Story/Level	Tittormation.	Story/Level	h .	Basement or	b ,	Direction	_
			Rasement	Crawl Space?	Sasamorit	from Building	E
Room		Room	Basement	Floor Slab Thickness (inches) [if present]	5"	Distance from Building	20'
Indoor Air Temp (°F)		Indoor Air Temp	50-60	Potential Vapor Entry Points Observed?	24	Intake Height Above Ground Level (ft.)	4'
Barometric Pressure?		Barometric Pressure?	-	Ground Surface Condition (Crawl Space Only)	33"	Intake Tubing Used?	No
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height	51/2"	Distance to nearest Roadway	50'
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?	100	Duplicate Sample?	
Comments:			_		1-		1 - 21
	Leak	Test -	rurge	: 22	2010	Dome	1000%
Sub S	RD DIA	dicode	3				
	Regula	tor # 3	40202	4074	= 405	12	
	Comis	lev ++:	2/1005	2 577	8		
	Start	- Note IT	- 0 Dos	Since 9 C	14/11/1 100	18/-2	9
	121 2	55-10-6	THE THESE	210		101	
	1D# C	133014	1-25-1	DUP-01	- 0511	21-	
4	20b	OKK III	me pies	sure: 5	15/11/119	21-5	
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36300	DA PIT	,	Breksea	and 27	9000	·	
Sampler Signatu	re:		100				



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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 Saahhebra Date/Time Prepared 1/1/10 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: Address: County: the Co Home Phone: Office Phone: Number of Occupants/persons at this location 2. 4 Age of Occupants 2. OWNER OR LANDLORD: (Check if same as occupant ____) Interviewed: Y/N Last Name: First Name: Address: County: Office Phone: Home Phone:

3. BUILDING CHARACTERISTICS Type of Building: (Circle appropriate response) Residential School Commercial/Multi-use Church **Industrial** Other: _____ If the property is residential, type? (Circle appropriate response) Ranch 2-Family 3-Family Colonial Split Level Raised Ranch Mobile Home Cape Cod Contemporary Townhouses/Condos Apartment House Duplex Other: Modular Log Home 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?

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 CON	STRUCTION CH	IARACTERI	STICS (Circ	cle 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 wi	th					
e. Concrete floor:	unsealed	sealed		·					
f. Foundation walls:	poured	block	stone	Fother <u>Mid</u> C					
g. Foundation walls:	unsealed	sealed	sealed with						
h. The basement is:	wet	damp	dry	moldy					
i. The basement is:	finished (unfinished) par	tially finished					
j. Sump present?	Y/N								
k. Water in sump?	N / not applicable								
Basement/Lowest level depth t Identify potential soil vapor en drains)			ze (e.g., crac	ks, utility ports,					
6. HEATING, VENTING and									
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 Natural Gas - Fuel Oil - Keros		Propane - So	olar - Wood	- Coal					
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.	A	\boldsymbol{C}	CI	IP	A	N	C	٧
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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	Stomal laundry	_
1 st Floor	Wing Okitches, bedrooms duice	
2 nd Floor	balloons apres	
3 rd Floor		
4 th Floor		

Mhua 10 me and a Dage 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY a. Is there an attached garage? b. Does the garage have a separate heating unit? c. Are petroleum-powered machines or vehicles Please specify stored in the garage (e.g., lawnmower, atv, car) 10 Marian Y/NWhen? d. Has the building ever had a fire? Where? _____ e. Is a kerosene or unvented gas space heater present? Y /(N) Where & Type? ______ f. Is there a workshop or hobby/craft area? Y (N) How frequently? g. Is there smoking in the building? Y N When & Type? _____ h. Have cleaning products been used recently? (N) When & Type? ____ i. Have cosmetic products been used recently? 2-3months j. Has painting/staining been done in the last 6 When & Type? artsdosido sautos months? Where & When? k. Is there new carpet, drapes or other textiles? tienscoo Y/NWhen & Type? l. Have air fresheners been used recently? If yes, where vented? m. Is there a kitchen exhaust fan? If yes, where vented? N attic tand Floor year 1st Floor NO n. Is there a bathroom exhaust fan? /N If yes, is it vented outside 🕢 / N o. Is there a clothes dryer? When &Type? p. Has there been a pesticide application? Are there odors in the building? Y If yes, please describe: Do any of the building occupants use solvents at work? (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 Itimaa month-

Is there a radon mitigation system for the building/structure? Y / 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

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. Mindge Basement: nindas wach bx +SS First Floor: 12. OUTDOOR PLOT

11, FLOOR PLANS

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

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13. PRODUCT INVENTORY FORM

Ligit specific products found in the residences that have the potential to affect indoor air

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Former Garage	cand gardine	3aal	u_	gao	0.0	4
ardi	Brandna King toldets	u- y	u	1 bromo 3 chloro 5 5 dimeth	41- D.D	-
bosnos	lawn localizous	bag	s U		<u> </u>	-
<u></u>	Intitl epoky	400	a			
	ward quie	400	Lu_		 	
	WD-40	802	0211	petadeum distillate	2	 \
-:	rust Doum fristre	<i>」</i>	p2 4	toluene + Kylone		
	dap Fran Sale	1/20	24	(soprepenal, other energlish	1	
	Paint a	1 7	u			
	Vacación 10	1 91		acotone tokeno, methand		<u> </u>
	Stry perse	30 ho	7. II	MINNO Dicts autolist	2	
<u>.</u>	PMIMON Spirts	10000	<u> </u>	/ MINOCON SAN 13 MANATERS		
<u>-</u> .	Tourdry delayet	1/1/2-1	noz U	Surfactaits		
	docox 2	- 1GA	X U	0		
	dypr sheets	10/20				<u> </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. BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

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





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



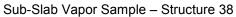
Basement Air Sample – Structure 38



Outdoor Air Sample – Structure 38

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





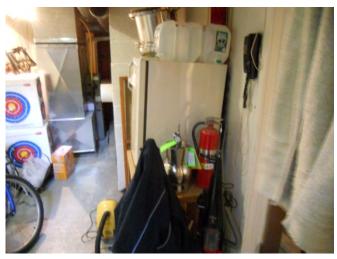


Basement Air and Radon Samples - Structure 38

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

			Project #:	14368.19 0002	
EA Science & Tech	mology		Project Name:	Ithaca OffSite	
6712 Brooklawn P	arkway, Suite 10	4	Location:	Ithaca NY	4
	11		Project Manager:	R. Casey/K. Cahill	4
A·			Sampler(s):	D. CRAI	LPAL-
RAE.			Building I.D. No.:		rure 38
OR INDOOR AIR	Service Servic	SUBSLAB	-MACON CA 1/2/4	OUTD	OOR AIR
Flow Regulator No.:		Flow Regulator No.:	40305	Flow Regulator No.:	40609
Canister Serial No.:	925	Canister Serial No.:	3475	Canister Serial No.:	34740
Start Date/Time:	1210	Start Date/Time:	1210	Start Date/Time:	219/12
Start Pressure: (inches Hg)	-30	Start Pressure: (inches Hg)	-30	Start Pressure: (inches Hg)	-19
Stop Date/Time:	2119570	Stop Date/Time:	2/10/12	Stop Date/Time:	2/9/12
Stop Pressure:	-7	Stop Pressure:		Stop Pressure:	.2
Cample ID:		6 1 10		C I ID	3
C755012A-	BA-38-6212	C755012A-5	5-38-6212	C755012A	-0A-38-0212
n:		4			
Story/Level	Bant	Basement or Crawl Space?	Bont	Direction from Building	N
Room	utility	Floor Slab Thickness (inches) [if present]	6"	Distance from Building	30-4-
Indoor Air Temp	60 t	Potential Vapor Entry Points Observed?	slight crake	Intake Height Above Ground Level (ft.)	14
Barometric Pressure?	1)	Ground Surface Condition (Crawl Space Only)	6064	Intake Tubing Used?	(Stainless)
Intake Height Above Floor Level (ft.)	45+	If slab, intake Depth If Crawl Space, intake height	6.51	Distance to nearest Roadway	7584.
Noticeable Odor?	-	Noticeable Odor?	-	Noticeable Odor?	-
PID Reading (ppb)	8 p106	PID Reading (ppb)	375 ppb	PID Reading (ppb)	0776
Duplicate Sample?	-	Duplicate Sample?	**	Duplicate Sample?	_''
Leaktest	- Dom	e 100%	Pur	je-125;	opm-PA
g Du	Plicate	d from	peri	ens effort.	≤ 3
red fl. Dr.	ain In	laundry	1 Roon	٠.	
		(
	EA Science & Tecl 6712 Brooklawn F Syracuse, NY 132: n: R R INDOOR AIR Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg) Stop Pressure: (inches Hg) Sample ID: C 755012 A 2: 11: Story/Level Room Indoor Air Temp Barometric Pressure? Intake Height Above Floor Level (ft.) Noticeable Odor? PID Reading (ppb) Duplicate Sample?	Syracuse, NY 13211 n: R: RA: RAE INDOOR AIR - BASEMENT Flow Regulator No.: 40 241 Canister Serial No.: 319112 Start Date/Time: 1210 Start Pressure: (inches Hg) - 3 O Stop Date/Time: 5101176 Stop Pressure: (inches Hg) Sample ID: 755012 A - BA - 38 - 6212 n: Story/Level BSM+ Room 411114/1 Storage Indoor Air Temp 60 F Barometric Pressure? Intake Height Above Floor Level (ft.) 4ff Noticeable Odor? 7 PID Reading (ppb) 0 p 56 Duplicate Sample?	EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211 THE AT SUBSLAB Flow Regulator No.: Canister Serial No.: Start Date/Time: Start Pressure: (inches Hg) Stop Date/Time: Stop Pressure: (inches Hg) Sample ID: C 755012 A - RA 38-6212 T 55012 A	EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211 Project Manager R: A: Sampler(s): Building LD. No: Building LD. No: Building LD. No: Building LD. No: Building LD. No: Building LD. No: Building LD. No: Canister Serial No: Canister Serial No: Start Date/Time: Start Date/Time: Start Pressure: (inches Hg) Stop Date/Time: Stop Pressure: (inches Hg) Sample ID: C 755012 A - BA 38-6212 C 755012 A - BA 38-6212 Barometric Pressure: Indoor Air Temp Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Barometric Pressure: Condition (Crawl Space) Cond	EA Science & Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, NY 13211 Project Manager: R. Casey/K. Cahill R. Sampler(9): Building I.D. No.: Flow Regulator No.: 40 24 Flow Regulator No.: 40305 Flow Regulator No.:

	EA Science & Tec	THIOTOGY		Project #:	14368,19	
				Project Name:	Ithaca Off-Site	
	6712 Brooklawn I	Parkway, Suite 104	W 10	Location:	Ithaca, NY	
	Syracuse, NY 132	11		Project Manager:	Bob Casey/Karen Cahill	V
ample Location Information:						
ite ID Number:	C755012A			Sampler(s):	DC/8B	
ID Meter Used: Model, Serial #) ppbRAE				Building I.D. No.:	38	
UMMA Canister Record:				Building I.D. No.:	00	
INDOOR AIR - FIRST FLOOR	INDOOR AIR	R - BASEMENT	SUBSLAB	SOIL GAS	OUTDOO	OR AIR
low Regulator No.:	Flow Regulator No.:	6115	Flow Regulator No.:	100415	Flow Regulator No.:	
iow Regulator No	Tion regulator from		A STATE OF THE			
Canister Serial No.:	Canister Serial No.:	11890	Canister Serial No.:	5581	Canister Serial No.:	
tart Date/Time:	Start Date/Time:	5/4/11 1523		54/11/523	Start Date/Time:	
tart Pressure:	Start Pressure: (inches Hg)	-955	Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)	
inches Hg)	(menes 11g)	11:5				
Stop Date/Time:	Stop Date/Time:	9511 1505		5511 1433		
Stop Pressure: inches Hg)	Stop Pressure: (inches Hg)	-7	Stop Pressure: (inches Hg)	0	Stop Pressure: (inches Hg)	
inches (1g)	Sample ID: C7550124	T A -	Sample ID:	1 55	Sample ID:	
	C7550121		C755012	¥-22-		
	38-	0211	39	-0511		
Other Sampling Information:						
story/Level	Story/Level	BSUTT	Basement or Crawl Space?	BSNOT	Direction from Building	
Room	Room	ablita	Floor Slab Thickness		Distance	
		oen [(inches) [if present]	5"	from Building	
ndoor Air Temp	Indoor Air Temp		Potential Vapor	S o	Intake Height Above	
°F)	Indoor ran remp	100	Entry Points	Sur	Ground Level (ft.)	
		00	Observed?			
3arometric	Barometric Pressure?		Ground Surface		Intake Tubing Used?	
Barometric Pressure?	Barometric Pressure?		Condition (Crawl Space Only)	_	Intake Tubing Used?	
3arometric	Intake Height Above		Condition (Crawl Space Only) If slab, intake Depth	_	Used? Distance to	
Garometric Pressure?			Condition (Crawl Space Only) If slab, intake Depth If Crawl Space, intake		Used?	
Barometric Pressure? ntake Height Above	Intake Height Above	A'	Condition (Crawl Space Only) If slab, intake Depth	51/2	Used? Distance to	
Barometric Pressure? ntake Height Above	Intake Height Above	4'	Condition (Crawl Space Only) If slab, intake Depth If Crawl Space, intake	51/2	Distance to nearest Roadway Noticeable Odor?	
Barometric Pressure? Intake Height Above Ploor Level (ft.)	Intake Height Above Floor Level (ft.)	4' -	Condition (Crawl Space Only) If slab, intake Depth If Crawl Space, intake height	5/2	Used? Distance to nearest Roadway	

	R	EA Engineering a			Project #:	14368.19	
		EA Science & Tec	hnology		Project Name:	NYSDEC C75012A	Offsite Axiohm
		6712 Brooklawn I	Parkway, Suite 104		Location:	Ithaca, NY	
		Syracuse, NY 132	11		Project Manager:	Bob Casey/Karen	Cahill
Sample Location	Information:						
Site ID N	Jumber		C75012A		Sampler(s):	Shloc	
PID Me	ter Used:					Wich.	WB8
	Serial #)		ppbRAE		Building I.D. No.:	MUCTU	20 70
SUMMA Caniste	- FIRST FLOOR	INDOORAIR	- BASEMENT	SUBSLAB	SOIL GAS	ООТРО	ORAIR
			LIDIES				10000
Flow Regulator No.:		Flow Regulator No.:	40101	Flow Regulator No.:	34748	Flow Regulator No.:	14600
Canister Serial No.:		Canister Serial No.:	1591	Canister Serial No.:	40168	Canister Serial No.:	40409
Start Date/Time:		Start Date/Time:	131116	Start Date/Time:	1211110	Start Date/Time:	121116
Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-30+	Start Pressure: (Inches Hg)	-98.2	Start Pressure: (inches Hg)	-27.5
Stop Date/Time:		Stop Date/Time:	12-22 10 iTR	Stop Date/Time:	12-2-16 1712	Stop Date/Time:	122101100
Stop Pressure:		Stop Pressure:		Stop Pressure:	-0	Stop Pressure:	<u>-15,</u>
(inches Hg) Sample ID:		(inches Hg) Sample ID:	-3.5	(inches Hg) Sample ID:		(inches Hg) Sample ID:	
		(755013A	-BA-38	(755DIZA=	IS - 38	C75502A	1-0A-38
Other Sampling	Information:	In		In .		I5: .:	
Story/Level		Story/Level	Bent	Basement or Crawl Space?	Bont	Direction from Building	N
Room		Room	Latility	Floor Slab Thickness (inches) [if present]	511	Distance from Building	15F+
Indoor Air Temp (°F)		Indoor Air Temp	60F.	Potential Vapor Entry Points Observed?	Sump Pit.	Intake Height Above Ground Level (ft.)	55
Barometric Pressure?		Barometric Pressure?	NA	Ground Surface Condition (Crawl Space Only)	~ A·	Intake Tubing Used?	У
Intake Height Above Floor Level (ft.)	1	Intake Height Above Floor Level (ft.)	4.54.	I slah intake Depth If Crawl Space, intake height	5.5"	Distance to nearest Roadway	65ft
Noticeable Odor?		Noticeable Odor?	00	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?	none_	Duplicate Sample?	1000	Duplicate Sample?	nong
Comments:							
/	7/11/i0 -	1175 00)/4)	100 % h	1/1/101 2		
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	<u> </u>						
Sampler Signatur	e:	\					

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 Wah (Ulbow) Date/Time Prepared 10////0 Preparer's Affiliation <u>Independent Consultant - EA Engineering</u> Phone No. <u>315-431-4610</u> Purpose of Investigation: Ithaca Offsite Former Axiohm Facility C75012A 1. OCCUPANT: Interviewed: Y/N First Name: Last Name: Address: County: Tomplens 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 2-Family 3-Family Raised Ranch Split Level Colonial Cape Cod Contemporary Mobile Home

If multiple units, how many?

One of the property is commercial, type?

Apartment House

Log Home

Business Type(s) _______

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

Townhouses/Condos

Other:

Other characteristics: A floor Mumber of floors Building age

Is the building insulated YN How air tight? Tight (Average) Not Tight

4. AIRFLOW

Duplex

Modular

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 CON	ISTRUCTION CH	IARACTER	ISTICS (Circle	e 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			
g. Foundation walls:	unsealed	sealed	sealed with _				
h. The basement is:	wet	damp	mykpm	moldy			
i. The basement is:	finished }	unfinished	partia	ally finished			
j. Sump present?	Ty) N						
9	N / not applicable	10/6					
Basement/Lowest level depth Identify potential soil vapor e drains)	below grade:	(feet) proximate s	ize (e.g., crack	s, utility ports,			
6. HEATING, VENTING and	I AIR CONDITIO	NING					
Type of heating system(s) use primary) Hot air circulation He							
Stream radiation - Rad Outdoor wood boiler -	iant floor - Electri	e baseboard –	- Wood stove	-			
The primary type of fuel used is: Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar - Wood - Coal							
Domestic hot water tank fueled by:							

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	laundry storage - studioapt - livi	ઉ
2 ^{na} Floor _	Extractive Management of the Control	
3 rd Floor		
4 th Floor		

8. FACTORS THAT MAY INFLUENCE INDOOR AI	R QUALITY
a. Is there an attached garage?	YN
b. Does the garage have a separate heating unit?	Y/N/MA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y/N/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 Where?
f. Is there a workshop or hobby/craft area?	YN Where & Type?
g. Is there smoking in the building?	YN How frequently?
h. Have cleaning products been used recently?	Y (D) When & Type?
i. Have cosmetic products been used recently? j. Has painting/staining been done in the last 6 months?	Y / N When & Type? Y N When & Type?
k. Is there new carpet, drapes or other textiles?	Y N Where & When?
I. Have air fresheners been used recently?	Y/ When & Type? If yes, where vented?
m. Is there a kitchen exhaust fan?	Y (N)
n. Is there a bathroom exhaust fan?	(VIN bothapts - ventedantsion
o. Is there a clothes dryer?	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 (1) If yes, please describe:	
Do any of the building occupants use solvents at w	ork? YN
(e.g., chemical manufacturing or laboratory, auto mechanic boiler mechanic, pesticide application, cosmetologist)	c or auto body shop, painting, fuel oil delivery,
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	k at a dry-cleaning service? (Circle
appropriate response) Yes, use dry-cleaning regularly (weekly) No Yes, use dry-cleaning infrequently (monthly or less, work at a dry-cleaning service	ss) Unknown

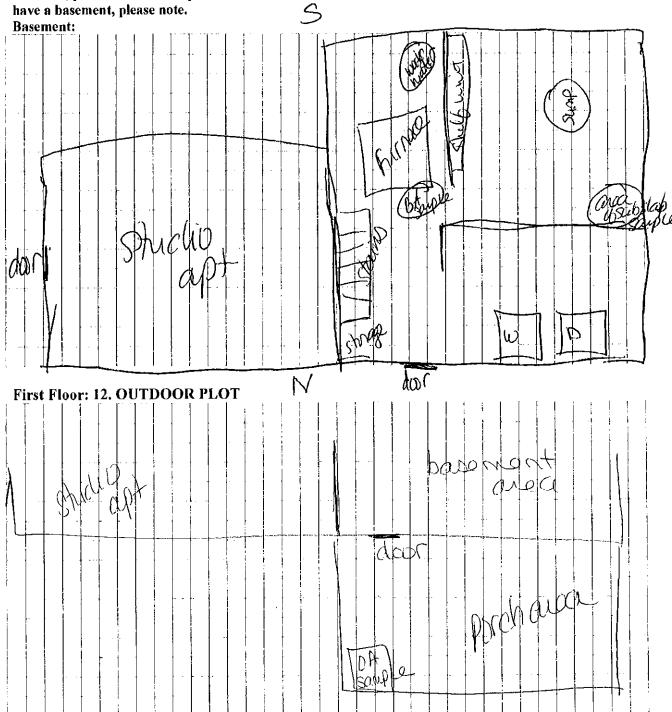
Is there a radon mitigation system for the building/structure Nate of Is the system active or passive? Active/Passive	of Installation:
9. WATER AND SEWAGE Water Supply Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal Public Sewer Septic Tank Leach Field Dry Well Other:	- Sudibaple 8-19890
.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	

.c. Responsibility for costs associated with reimbursement explained? Y / N .d. Relocation package provided and explained to residents? Y / N

- house tested July ble withaunit gromstine

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



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 man

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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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
Borryat	Paint 20	-lal	u_{-}	Latex paint	D,D	4
	Paint 10.	197	И	11 //	D.D_	
_	Lownmower	<u> </u>	j		~700ppl	12
	warp I bee spray	502	u	Sumithin 3 minory 100020) Ptramethin 1040lokokare 1 phicas loximicle methy 12 2 demothy 13 Cyclo proponed	0.0	
	Bug-tar		····	1 Adicar bixinice methy 12 admostry 13 Cyclo propored	BAXYIALI	
		102	U	Meleye glycol	<u>б.</u> О _	
	minaralsants	Igal	<u>u</u>	1 0 .	6,0	<u> </u>
	Dif wollmoustry charcose starter	perso	Bloz U		0.0	
	charcal starter	1	U		0.0	
	CLR				0.0	
	Unsed Oil				0,0	
	woud filler	1602			0.0	
	Liquid Davino				80	
			V		0.0	
	delenont			Suportants		
	d				_	
	-					

^{*} Describe the condition of the product containers as Unopened (UO), Uscd (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\S[S\Oi] Spills\Guidance Docs\Aiproto4.doc

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

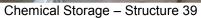




Chemical Storage - Structure 39

Chemical Storage – Structure 39







Chemical Storage – Structure 39



Radon System - Structure 39



Radon System – Structure 39



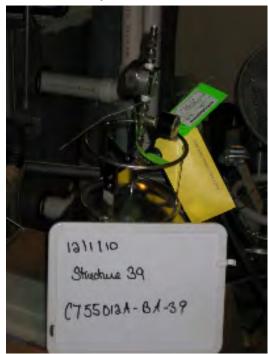
Radon System - Structure 39



Radon System – Structure 39



Radon System – Structure 39



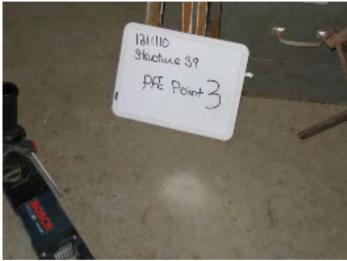
Basement Air Sample – Structure 39





PFE Point 1 – Structure 39

PFE Point 2 – Structure 39



PFE Point 3 - Structure 39

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







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

A STATE OF THE PARTY OF THE PAR	EA Science & Te	and Its Affiliate		Project #:	14368.19 0005	
	V			Project Name:	Ithaca Offsite	
	6712 Brooklawn	Parkway, Suite 10	4	Location:	Ithaca, New York	
	Syracuse, NY 13	211		Project Manager:	Bob Casey/Karen Cah	ill
Sample Location Infor	mation:	_	_			
ite ID Number:	C755012A			Sampler(s):	D Crandall/C, Schroen	r
TD Meter Used: Model, Serial #) ppbR	RAE			Building I.D. No.:	Structu	cp 39
SUMMA Canister Reco	ord:					
INDOOR AIR - FIRST	FLOOK INDOOR A	IR - BASEMENT	SUBSLAB	SOIL GAS	OUTDO	OOR AIR
low Regulator No.:	Flow Regulator No.:		Flow Regulator No.:		Flow Regulator No.:	40705
Canister Serial No.:	Canister Serial No.:	14871	Canister Serial No.:		Canister Serial No.:	35269
tart Date/Time:	Start Date/Time:	2/16/12	Start Date/Time:		Start Date/Time:	2/16/12
tart Pressure: inches Hg)	Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)		Start Pressure: (inches Hg)	-30
top Date/Time:	Stop Date/Time:	2/17/12	Stop Date/Time:	/	Stop Date/Time:	2/17/12
top Pressure: inches Hg)	Stop Pressure: (inches Hg)	-3	Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg)	-0.5
ample ID:	Sample ID:		Sample ID:		Sample ID:	
/	C735012A-	BA-39-			(7550121	
Other Sampling Inform		Unio	/			02/3
tory/Level	Story/Level	01.5	Basement or	Γ	Direction	* 1
3,00	47.50	BSMI	Crawl Space?		from Building	\$ N
oom	Room	BSMT	Floor Slab Thickness (inches) [if present]		Distance from Building	30f+.
ndoor Air Temp F)	Indoor Air Temp	584	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	30f+.
arometric ressure?	Barometric Pressure	?	Ground Surface Condition (Crawl Space Only)		Intake Tubing Used?	y
	Intake Height Above	2	If slab, intake Depth		Distance to	/
ntake Height Above loor Level (ft.)	Floor Level (ft.)	47,	If Crawl Space, intake height		nearest Roadway	86ft.
		lift,			nearest Roadway Noticeable Odor?	86++
loor Level (ft.)	Floor Level (ft.)	Uff,	height			80ft.

		(R) EA Engineering and Its Affiliate EA Science & Technology					
	(710 D11 I			Project Name:	Ithaca Off-Site		
		Parkway, Suite 104		Location:	Ithaca, NY		
	Syracuse, NY 132	11		Project Manager:	Bob Casey/Karen Cahill		
ample Location Information:							
e ID Number:	C755012A			Sampler(s):	DC 5B		
D Meter Used:							
lodel, Serial #) ppbRAE				Building I.D. No.:	39		
UMMA Canister Record:	I INDOOR AN	DACEMENT	CURCLAR	SOIL GAS	OUTDOOR AIR		
INDOOR AIR - FIRST FLOOR	INDOORAII	R - BASEMENT	SUBSLAB	SOLGAS	OUTBOOKAIK		
ow Regulator No.:	Flow Regulator No.:	40079	Flow Regulator No.:		Flow Regulator No.:		
nister Serial No.:	Canister Serial No.:	415	Canister Serial No.:		Canister Serial No.:		
art Date/Time:	Start Date/Time:	541 0853	Start Date/Time:		Start Date/Time:		
art Pressure:	Start Pressure:		Start Pressure:		Start Pressure:		
ches Hg)	(inches Hg)	-29	(inches Hg)		(inches Hg)		
op Date/Time:	Stop Date/Time:	515/11 0841	Stop Date/Time:	10.00.00	Stop Date/Time:		
op Pressure:	Stop Pressure:	0001	Stop Pressure:		Stop Pressure:		
ches Hg)	(inches Hg)		(inches Hg)		(inches Hg)		
mple ID:	Sample ID:		Sample ID:		Sample ID:		
		27 63					
	C755012A-	BA-39-0	511				
ther Sampling Information:					la		
ory/Level	Story/Level	Rose ant	Basement or Crawl Space?		Direction from Building		
om	Room	DARMAKI	Floor Slab Thickness		Distance		
		Basement Basement Storage 55-60	(inches) [if present]		from Building		
door Air Temp	Indoor Air Temp		Potential Vapor		Intake Height Above		
7)		55-60	Entry Points Observed?		Ground Level (ft.)		
rometric	Barometric Pressure?		Ground Surface		Intake Tubing		
essure?		_	Space Only)		Osed?		
take Height Above	Intake Height Above	76	If slab, intake Depth		Distance to		
oor Level (ft.)	Floor Level (ft.)	4'	If Crawl Space, intake height		nearest Roadway		
oticeable Odor?	Noticeable Odor?	-	Noticeable Odor?		Noticeable Odor?		
D Reading (ppb)	PID Reading (ppb)	0	PID Reading (ppb)		PID Reading (ppb)		
o wearing (bho)	Duplicate Sample?		Duplicate Sample?		Duplicate Sample?		
ake Height Above for Level (ft.)	Intake Height Above Floor Level (ft.) Noticeable Odor? PID Reading (ppb)	4'	Condition (Crawl Space Only) If slab, intake Depth If Crawl Space, intake height Noticeable Odor? PID Reading (ppb)		Used? Distance to nearest Roadway Noticeable Odor PID Reading (pp	? b)	

R			Project #:	14368.19	
	EA Science & Tecl	mology		Project Name:	NYSDEC C75012A Offsite Axiohm
	6712 Brooklawn F	arkway, Suite 104		Location:	Ithaca, NY
	Syracuse, NY 1321	11		Project Manager:	Bob Casey/Karen Cahill
Sample Location Information:	·				
Cita ID Musukasi		C75012A		Sampler(s):	SOIDC
Site 1D Number: PID Meter Used:					shuchue 3a
(Model, Serial #)		ppbRAE		Building I.D. No.:	Millia mas
SUMMA Canister Record: INDOOR AIR - FIRST FLOOR	INDOOR AIR	- BASEMEN I	SUBSLAB	SOIL GAS	OUTDOOR AIR
INDOORANG-TREATEGOR	- Industrial			<u> </u>	
Flow Regulator No.:	Flow Regulator No.:	4007	Flow Regulator No.:		Flow Regulator No.:
Canister Serial No.:	Canister Scrial No.:	4038	Canister Serial No.:		Canister Serial No.:
Charle Prince	Start Date/Time:	1811110	Start Date/Time:		Start Date/Time:
Start Date/Time: Start Pressure:	Start Pressure:	,	Start Pressure:		Start Pressure:
(inches Hg)	(inches Hg)	-30+	(inches Hg)		(inches Hg)
Stop Date/Time:	Stop Date/Time:	15/5/10/8/2	Stop Date/Time:	_	Stop Date/Time:
Stop Pressure:	Stop Pressure:	-5	l '		Stop Pressure:
(inches Hg)	(inches Hg) Sample 1D:		(inches Hg) Sample ID;	<u> </u>	(inches Hg) Sample ID:
Sample ID:	M55013A	-BA-39	Sumple 1921		
Other Sampling Information:				<u>, </u>	In:
Story/Level	Story/Level	35M1	Basement or Crawl Space?		Direction from Building
Room	Roam	B5MT Imperent	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 Tubbing Used?
Intake Height Above Floor Level (ft.)	Intake Height Above Floor Level (ft.)	3.51	If slab, intake Depth If Crawl Space, intake height	,	Distance to nearest Roadway
Noticeable Odor?	Noticeable Odor?	1000	Noticeable Odor?	 	Noticeable Odor?
PID Reading (ppb)	PID Reading (ppb)	ت ت	PID Reading (ppb)		PID Reading (pph)
Duplicate Sample?	Duplicate Sample?	now	Duplicate Sample?		Duplicate Sample?
Comments:					
PFE#2	-O,D:	53	PFE	pint	1-0,006
		The same of the sa			
OC C WINT	<u> </u>	<u> </u>	_ _ .	<u></u>	
(PT F DOM	5 0,00				
	····			<u></u>	
the same and the same of the s	to a marketic of the contract				
Sampler Signature:			 		

(33)

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 5, NUSM	Date/Time Prepared 12/1/10 7 00
Preparer's Affiliation <u>Independent Consultant</u>	- EA Engineering Phone No. 315-431-4610
Purpose of Investigation: Ithaca Offsite For	rmer Axiohm Facility C75012A
1. OCCUPANT: Interviewed: Y/N	
Last Name:	First Name:
Address:	
County: Tumplain	
Home Phone:	Office Phone:
Number of Occupants/persons at this location _	Age of Occupants 455
2. OWNER OR LANDLORD: (Check if same	e as occupant)
Interviewed: Y/N	
Last Name:	First Name:
Address:	
County:	
Home Phone:	Office Phone:

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appre	opriate respon	ıse)	
Residential	School	Commer	cial/Multi-use
Industrial	Church	Other: _	
If the property is resi	dential, type:	? (Circle appr	opriate response)
Ranch			
	2-Family	,	3-Family
Raised Ranch	Split Lev	/el	Colonial
Canecod	Contemp	oorary	Mobile Home
Duplex	Apartme	nt House	Townhouses/Condos
Modular	Log Hon	ne	Other:
Other characteristi Number of floors	csidences (i.e	lding age /	9 Y/N If yes, how many?
4. AIRFLOW Use air current tub describe:	es or tracer	smoke to ev	valuate airflow patterns and qualitatively
Airflow between flo	ors		
Airflow near source			
Outdoor air infiltrati	on		
Infiltration into air d			

5. BASEMENT AND CO	NSTRUCTION C	HARACTER	STICS (Circ	le 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:	Muncovered	govered or	covered wit	n carpet or
e. Concrete floor:	unsealed	sealed	sealed with	point
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	part	ially finished
j. Sump present?	(y) N	(
k. Water in sump?	N / not applicable	10 V		
Basement/Lowest level depth Identify potential soil vapor drains)	n below grade: (M) entry points and a	(feet) (feet) pproximate si	ze (e.g., crac	ks, utility ports,
6. HEATING, VENTING an	d AIR CONDITIC	ONING		
Type of heating system(s) us primary) Hot air circulation - Has tream radiation - Ra Outdoor wood boiler -	leat pump - Hot w diant floor - Electr Other	ater baseboard ric baseboard	I - Space Hea	aters -
The primary type of fuel use Natural Gas - Fuel Oil - Ken	rosene - Electric -			- Coal
Domestic hot water tank fue Boiler/furnace located in: Ba Air conditioning: Central Air Are there air distribution du	· - window units -	- Open windo	or - Other ows - None	<u> </u>

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. OCCUP Is basemen	PANCY nt/lowest level occupied? Full-time - Occasionally Seldom - Almost Never
	eral Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	half strage / hall fireheal
1 st Floor 2 nd Floor	Gung, kitaler, Balanon
3 rd Floor	
	attic - no livable space

. .

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY a. Is there an attached garage? b. Does the garage have a separate heating unit? c. Are petroleum-powered machines or vehicles Please specify stored in the garage (e.g., lawnmower, atv, car) - worklar in finished side d. Has the building ever had a fire? Where? _ e. Is a kerosene or unvented gas space heater present? Where & Type? f. Is there a workshop or hobby/craft area? How frequently? Mindy - 3415 ago g. Is there smoking in the building? When & Type? h. Have cleaning products been used recently? When & Type?_____ i. Have cosmetic products been used recently? j. Has painting/staining been done in the last 6 When & Type? months? Where & When? k. Is there new carpet, drapes or other textiles? When & Type? 1. Have air fresheners been used recently? If yes, where vented? outsid 0 m. Is there a kitchen exhaust fan? If yes, where yented? n. Is there a bathroom exhaust fan? If yes, is it vented outside? Y/N o. Is there a clothes dryer? When &Type? __ p. Has there been a pesticide application? Are there odors in the building? Y (N) If yes, please describe: Do any of the building occupants use solvents at work? (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) Ŋΰ Yes, use dry-eleaning regularly (weekly) No

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

Yes, work at a dry-cleaning service

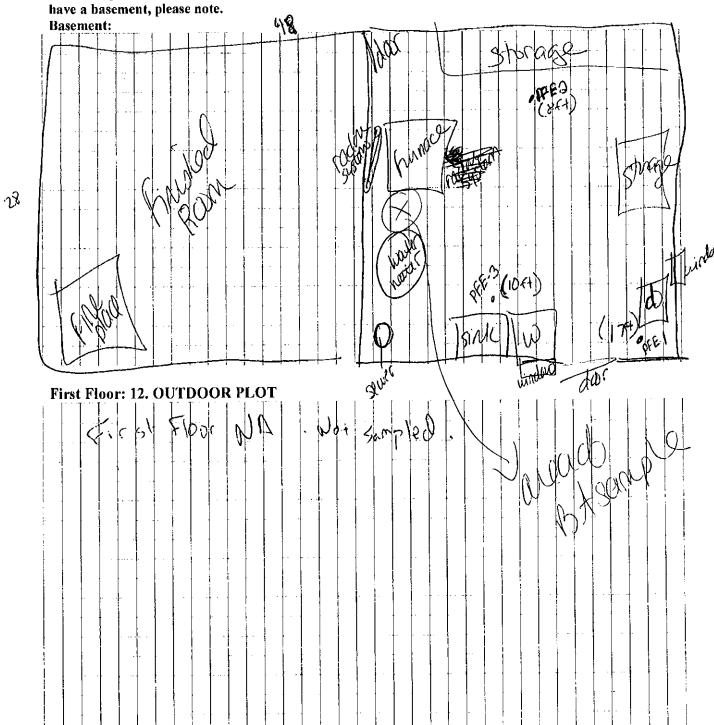
Is there a radon mitigation system for the building/structure (Y)N Date of Is the system active or passive? Active/Passive	Installation: John Kaminsky
9. WATER AND SEWAGE Water Supply Public Water Drilled Well Driven Well Dug Well Other: Sewage Disposal Public Sewer Septic Tank Leach Field Dry Well Other:	111tallad

.10. RELOCATION INFORMATION (for oil spill residential emergency)
a. Provide reasons why relocation is recommended:

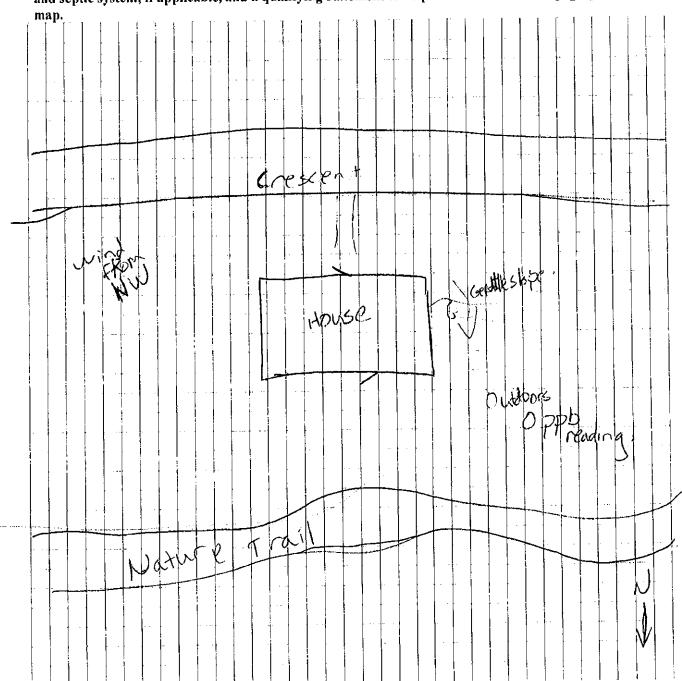
- .b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y/N
- .d. Relocation package provided and explained to residents? Y/N

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.



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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:
[/st/specific products found in the residences that have the potential to affect indoor air

Location	In the County Actives Solve Product Description (1) 200 6 60	Size (units)	Condition∗	Organic hydronarbon Aliphatic Chemical Ingredients Aliphatic Lynsud oil - hydronaras	Field Instrument Reading (units)	Photo ** Y/N
hai	bundry dot.	53/1	07 U	supotaits	10	4_
vasker	woolite	16 A)	024	sufadads	0,0	
	litare	8610	•			
•	othogoneration childrine	USDO black	2 (1			
- B	10 body Filer	1402		polyester resin albertus borns		1/2
Glarol	gazing compand	ι p+	Ü	_		
	X four seal	1202	Aub	dinostyl ether propone ob (Sepropono) ethqiese giyoo)	wanel unyla	retate
	wooddues		11			
	Sandableprine	?/	u.	Key prest pluere	0.0	
	1	1 1 1	4/10/	more nothing listed	D.0	
<u> </u>	Spray paint	US AY	41 1 14-13	hydraulm proportions other	byn cone	
	mineral spirits	19.7	U	LIGHTHUS XLITERU -CAGES	00	Y
c . 6		100/	\sim	1,001, 110, 10,70,5	0.0	1
mp	box of paints: -	19:1		beyold 1970'S nothing listed		†
	1	 ''; ' 	in , uc	<u> </u>	00	
	box of oil- motor	<i>Dy /</i>	12-19-15		0.0	
		<i>i</i> ,	1-91		2 11 6	
	boxyfiell grusta	7/ /	gal /1-1	t of old point spra	Y'	1 3
-			-	pla paint-nothing	0.0	1 3
<u></u>		<u> </u>		Listed-1970'S melc	<u> </u>	<u> </u>
i	* Photographs of the front	e produ and bac otograpl	ct containers a ck of product on the must be of g	s Unopened (UO), Used (U), or Determiners can replace the handwritten ood quality and ingredient labels must	n list of chemic	cal very co
	quidecrote - le ordique si Horas hovague	Jal	u		0.0	
han de	walland of	1 8057.	U	L vocis <28g1L	0.0	

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



12-6-10 STRUXTURE 43 CTESOIZN SS-43

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



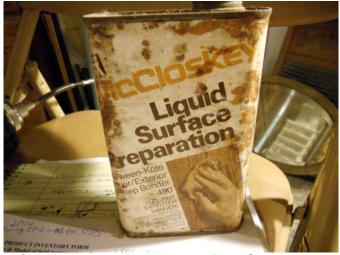
Chemical Storage - Structure 43



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

Sample Location In		En i Science & Tec	hnology	•	Project #:	14368.19 0005	
Site ID Number:		Administration of			Project Name:	Ithaca Offsite	
Site ID Number:	STATE OF THE PARTY	6712 Brooklawn I	Parkway, Suite 10	4	Location:	Ithaca, New York	
Site ID Number:	(国际教育)	Syracuse, NY 132	11		Project Manager:	Bob Casey/Karen Cah	iii
	nformation:		1	_		1	
OTD MALE TY I		C755012A			Sampler(s):	D Crandall/C. Schroer	
PID Meter Used: Model, Serial #)	pbRAE				Building I D. May	stouch	ure 43
SUMMA Canister					Building I.D. No.:	3 4.07	4. 6 13
INDOOR AIR - F		INDOOR AIF	R - BASEMENT	SUBSLAB	SOIL GAS	OUTDO	OR AIR
Flow Regulator No.:		Flow Regulator No.:	209??	Flow Regulator No.:	1	Flow Regulator No.:	40003
Canister Serial No.:		Canister Serial No.:	34320	Canister Serial No.:		Canister Serial No.:	5673
Start Date/Time:		Start Date/Time:	1034	Start Date/Time:		Start Date/Time:	र्भाव 12
Start Pressure:		Start Pressure:	-29	Start Pressure:		Start Pressure:	
inches Hg)	di	(inches Hg)	2117/12	(inches Hg)	/	(inches Hg)	-29 21/1/2 1030
Stop Date/Time:		Stop Date/Time:	1033	Stop Date/Time:		Stop Date/Time:	1030
Stop Pressure:		Stop Pressure:	-45	Stop Pressure:		Stop Pressure:	-0.5
inches Hg) Sample ID:		(inches Hg) Sample ID:		(inches Hg) Sample ID:	0	(inches Hg) Sample ID:	112
1		Sample ID: C 75501 2A	0212	/		6755012A	04-26-
Other Sampling In	formation:			•			===1 2
Story/Level		Story/Level	RSMT	Basement or		Direction from Building	5€
Room		Room	3	Crawl Space? Floor Slab Thickness (inches) [if present]		Distance from Building	15f+
			13M	(menes) ty present		nom bunding	
ndoor Air Temp °F)		Indoor Air Temp	BSMT BSMT 60 F	Potential Vapor Entry Points Observed?		Intake Height Above Ground Level (ft.)	44
Barometric Pressure?		Barometric Pressure?		Ground Surface Condition (Crawl		Intake Tubing Used?	y
ressure:				Space Only)		oscu.	
ntake Height Above loor Level (ft.)		Intake Height Above Floor Level (ft.)	3.5++	If slab, intake Depth If Crawl Space, intake height		Distance to nearest Roadway	70F
Noticeable Odor?		Noticeable Odor?	_	Noticeable Odor?		Noticeable Odor?	~
ID Reading (ppb)		PID Reading (ppb)	OPP b.	PID Reading (ppb)		PID Reading (ppb)	20106
Ouplicate Sample? Comments:		Duplicate Sample?	_	Duplicate Sample?		Duplicate Sample?	- '

5

FIELD AIR SAMPLING FORM

	リ EA Engineering a			Project #:	14368.19	
	EA Science & Tec		Project Name:	NYSDEC C75012A	Offsite Axiohm	
	6712 Brooklawn I	arkway, Suite 104		Location:	Ithaca, NY	
	Syracuse, NY 132	11			Bob Casey/Karen	Cabill
ample Location Information:	-,,			i roject manager.	DOD Casey/ Raich	Caton
	1				0010	\O ₁
Site ID Number:		C75012A	· ···	Sampler(s):	2011	<u> </u>
PID Meter Used: (Model, Serial #)		ppbRAE		Building I.D. No.:	Stuctu	W43
UMMA Canister Record:		ррокив		Dunding 2.D. Tve	_ 3 (10.0 (33	
INDOOR AIR - FIRST FLOOR	INDOOR AIF	- BASEMENT	SUBSLAB	SOIL GAS	оитро	OR AIR
	-	40190		40393		
ow Regulator No.:	Flow Regulator No.:	10170	Flow Regulator No.:		Flow Regulator No.:	
anister Serial No.:	Canister Serial No.:	33789	Canister Serial No.:	934	Canister Serial No.:	
-	***	12.6-10		12-6-10	•	
art Date/Time:	Start Date/Time:	1000	Start Date/Time:	1655	Start Date/Time:	
art Pressure: nches Hg)	Start Pressure: (inches Hg)	-26	Start Pressure: (inches Hg)	-30+	Start Pressure: (Inches Hg)	
		12-7-10 1653	,	17-7-10	,	
op Date/Time:	Stop Date/Time:	₩255	Stop Date/Time:	1633	Stop Date/Time:	
op Pressure: nches Hg)	Stop Pressure:	-15	Stop Pressure: (inches Hg)	-7.5	Stop Pressure: (inches Hg)	
inches rig) imple ID:	(inches Hg) Sample ID:	1,3	Sample ID:		Sample ID:	<u> </u>
•	C7550121	4-BA-43	C755012	.A - 55-43	·	
ther Sampling Information:		, , , , , , , , , , , , , , , , , , , 	<u> </u>		•	
ory/Level	Story/Level		Basement or		Direction	
oom	Room	<u> </u>	Crawl Space? Floor Slab Thickness		from Building Distance	
	7.00.11		(inches) [if present]		from Building	
door Air Temp	Indoor Air Temp		Potential Vapor		Intake Height Above Ground Level (ft.)	
F)			Entry Points Observed?		Glound Lever (ii.)	
arometric	Barometric Pressure?		Ground Surface		Intake Tubing	
ressure?			Condition (Crawl		Used?	
			Space Only)		D	
itake Height Above oor Level (ft.)	Intake Height Above Floor Level (ft.)		If stab, intake Depth If Crawl Space, intake	!	Distance to nearest Roadway	
			height	1		
			i e	1	1	
	Noticeable Odor?		Noticeable Odor?		Noticeable Odor?	
D Reading (ppb)	PID Reading (ppb)		PID Reading (ppb)		PiD Reading (ppb)	
oticeable Odor? ID Reading (ppb) uplicate Sample?					L	
ID Reading (ppb)	PID Reading (ppb)		PID Reading (ppb)		PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb) Duplicate Sample?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PID Reading (ppb)		PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb) Duplicate Sample?) U	PID Reading (ppb)	non o	PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb))Y	PID Reading (ppb)	ppn p	PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb) Duplicate Sample?	10	PID Reading (ppb) Duplicate Sample?	ppn p	PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb) Duplicate Sample?	pp pu	PID Reading (ppb)	ppn p	PiD Reading (ppb)	
ID Reading (ppb) uplicate Sample? Comments:	PID Reading (ppb) Duplicate Sample?	Pb-pu	PID Reading (ppb) Duplicate Sample?	ppn p	PiD Reading (ppb)	540
Passive Sam	PID Reading (ppb) Duplicate Sample?		PID Reading (ppb) Duplicate Sample?		PID Reading (ppb) Duplicate Sample?	
Passive Sam Radiello	PID Reading (ppb) Duplicate Sample?	OIZA - RA	PID Reading (pyb) Duplicate Sample? 475 9-43	16.50	PID Reading (ppb) Duplicate Sample?	Du
D Reading (ppb) uplicate Sample? omments: Passive Sam	PID Reading (ppb) Duplicate Sample?		PID Reading (pyb) Duplicate Sample? 475 9-43		PID Reading (ppb) Duplicate Sample?	Du

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 5, NUMO Preparer's Affiliation Independent Consultant - EA Engineering Phone No. 315-431-4610 Purpose of Investigation: <u>Ithaca Offsite Former Axiohm Facility C75012A</u> 1. OCCUPANT: Interviewed: Y/N First Name: Last Name: Address: County: MANIAND Office Phone: Home Phone: Number of Occupants/persons at this location _____ Age of Occupants _____ 2. OWNER OR LANDLORD: (Check if same as occupant) Interviewed: Y/N First Name: Last Name: Address: County: Office Phone: Home Phone:

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appro	opriate respo	nse)		
Residential	School	Commerc	ial/Multi-use	
Industrial	Church	Other:		
If the property is resid	lential, type	? (Circle appro	priate response)	. all
Ranch	0 D 11			If him
Raised Ranch	2-Famil Split Le		3-Family Colonial	Sousbuilt nouse
Cape Cod	Contem	porary	Mobile Home	
Duplex	Apartme	ent House	Townhouses/Condos	
Modular	Log Hor	ne	Other:	
Other characteristics Number of floors	sidences (i.	lding age	Y/N If yes, how ma	

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) brick wood frame concrete stone a. Above grade construction: other _____ full crawlspace slab b. Basement type: dirt stone concrete c. Basement floor: covered with 10000 lovy conextul Lindown uncovered d. Basement floor: covered sealed with Daint sealed unsealed e. Concrete floor: other f. Foundation walls: poured block stone sealed with paint + Shuttock sealed unsealed g. Foundation walls: moldy wet damp dry h. The basement is: partially finished finished unfinished i. The basement is: j. Sump present? k. Water in sump? Y / N / not applicable Basement/Lowest level depth below grade: (fcct) 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: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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	
<u>Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, stora</u>	<u>ge)</u>
Basement <u>Unglbdiant</u> <u>aundy</u> 1st Floor <u>Kitchen Vinnag</u> 2nd Floor <u>balourns</u> 3rd Floor 4th Floor	

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) Please specify unknow When? d. Has the building ever had a fire? e. Is a kerosene or unvented gas space heater present? Where? Where & Type? f. Is there a workshop or hobby/craft area? How frequently? g. Is there smoking in the building? When & Type? h. Have cleaning products been used recently? i. Have cosmetic products been used recently? When & Type? j. Has painting/staining been done in the last 6 When & Type? Wallury and 1st months? Where & When? k. Is there new carpet, drapes or other textiles? When & Type? 1. Have air fresheners been used recently? If yes, where vented? m. Is there a kitchen exhaust fan? If yes, where vented? MANNEOCT n. Is there a bathroom exhaust fan? If yes, is it vented outside? Y o. Is there a clothes dryer? When &Type? p. Has there been a pesticide application? Are there odors in the building? If yes, please describe: Do any of the building occupants use solvents at work? (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)

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

Yes, use dry-cleaning regularly (weekly) No

Yes, work at a dry-cleaning service

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

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: Rubbe 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:

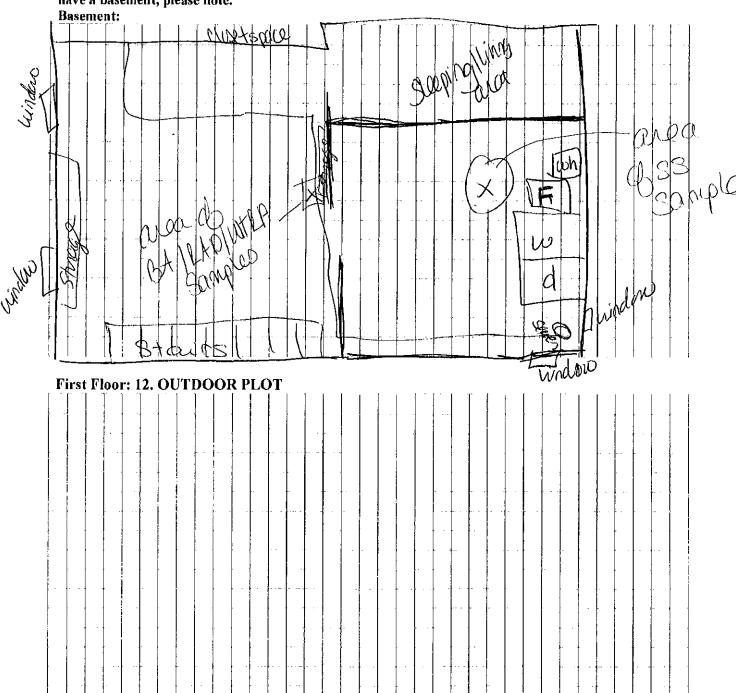
 b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

 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 huilding. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.



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

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13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

Lists pecific products found in the residences that have the potential to affect indoor all

Location	Product Description	Size (units)	Condition.	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y/N
	6 wet Shylo	1202	40	polyotnan hydoca polymeticisocymu		4
	grant styficialantda					/
	NAOX MUNACA	166	(188)	***		
				Surfactants		
	shout advanced and detergers	Lynca	no fuex	Sufactant		
	dorox 2	. 1.420	al U	-		
	Pledge	1402	u	DO CECS		4
	ivory was	325°	2 U			
	dowx oxygenagers	320	7 4			
	clowx oxygenagaro	1921/	lat a	latex.		
	lauthercare	802	<u>u</u>			
	Dap Fast n Fical	802	U	Affialeniglyco /	ce	
	Paphindowglaze	10,10	· u	Pholyneglycol Crystalliosili	a Le	
<u></u>	1	19:4	и	libnium clioxide silicates	1 (0.11)	Annadia 7
	latex gloss erand	19,1	4	Dringlahyae Propandicas	cherry Go	Taprecio (
	Mepeshlack	1102	4	2 raphtha lenoll-Image/2 nitra for muldohyal Propandicocc key tens toluol of XYLO C + Alcohol	186 ppb	<u></u>
	tanity metal poist	902	4		0.6	<u></u> .
	Uucito	191	и	latex pains		
	rustolean	19.1	a			

^{*} 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

cap wooddaugh woodbiller	402 (402 (acetore, nitrocalluluse iso prop methy ethyl keytora pet raphtha	6.0 let alasho / the buther phthalasta 3400pps
unitup	19+V	petrolum custillates lanoma	1) Crymady
Alumaxallpurpus rubbersebrut 10.50	12 n	nineral spirits	00
+SP-PF 140Z	U Solice	mneta si licute	0,0
	tho phthala	te ethoylmeglygol +	0.0
de-100 2-902 5 min Fastayingepoxy	uo		0.0
5 min fastaying pory armorall 1002	UD		0.0
Krylon rustfulb	1202 U	regiones extend postulates towere petroleum distante	0.0
	и	foliuene of policialism distillates	0.0
Kimi Sprit Superclain 80	ZU		0.0
wallowering Sam 30	2 4		0.0
lightweight 80	2 U		
and the same of th	402 U		

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2/7/12 During EP-2 install for SSDS.

13. PRODUCT INVENTORY FORM

quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	Leather Care (ADDIE Brand)	802	U	_	19.9 ppm	Y
	(Apple Brand) Rustoleum wood (2) Saver (1987) Rustoleum (1982)	802	Ч	~	-	Y
	Rustoleum (1982)	3262	u.	Alliphatic Hydrocarbons,	-	y
	United Coatings	141	U	aromatic Hydrocarbons	87ppb	y
	United Coating 3 Uniturp thinner. McCloskey Liquid Surface prep Krylon Rust Tough Spray Pant. Rustolkum	1 pint.	D	Aliophatic + Aromatic Hydro Carbons	~	y
	Krylon Rust Tough	1207	U	Ketones, Hylen, to luene	-	y
	Rustoleum	1202	U	Acetone + Xylene	7	y
	Dutch Box (1983)	1202	U	toluol + xxlol2	1598ppb	y
	Spray Enamel Finish Line by Kinn Rain + Stain	10.50z.	И	Aliophatic + Aromatic Hydro Carbons Ketones, Hylen, to luene Acetone + Xylene Toluol + Xylol, Aromatic Hydrocurbons Hydrocarbons	1598ppb 3170Apb	7

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

No additional chemicals of Potential concern | products not in original inventories:

^{**} 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

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.

Nancy Weaver

Date

any Weaver 4/3/12

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.

Date of Collection: 2/10/12 10:37:00 AM

File Name:

Air Toxics

a022206

Client Sample ID: C755012A-BA-37-0212

Lab ID#: 1202298-01A

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

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)

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



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

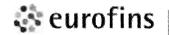
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.082	0.20	0.52

Container Type: 6 Liter Summa Canister (SIM Certified)

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

nw 4/2/12

N4 - 4l- - al



Air Toxics

Client Sample ID: C755012A-SS-37-0212

Lab ID#: 1202298-02A

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

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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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)

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

NW 4/2/12



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

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

Q = Exceeds Quality Control limits.

Container Type: 6 Liter Summa Canister (SIM Certified)

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

NU 412/12



Client Sample ID: C755012A-OA-37-0212

Lab ID#: 1202298-03A

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

File Name: Dil. Factor:	a022218 1.34	Date of Collection: 2/10/12 10:09:00 Al		
	Rpt. Limit	Amount	Rpt. Limit	Amount

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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)

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

nw 412/12



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	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)

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

NW 4/2/12



Client Sample ID: C755012A-BA-38-0212

Lab ID#: 1202298-04A

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

File Name: Dil. Factor:	a022209 1.58			n: 2/10/12 12:10:00 PM : 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)

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

W 412/12



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
-		

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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)

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

nw 412112

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
•		

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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

Client Sample ID: C755012A-SS-38-0212

Lab ID#: 1202298-05B

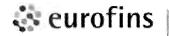
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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





Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06A

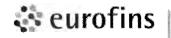
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



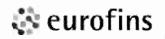


Client Sample ID: C755012A-OA-38-0212

Lab ID#: 1202298-06B

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

File Name: Dil. Factor:	a022211sim 1.46		of Collection: 2/1 of Analysis: 2/22	
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 Sur	mma Canister (SIM Certified)		
				Method
Surrogates		%Recovery	· .	Limits
1,2-Dichloroethane-d4		123		70-130
Toluene-d8		96		70-130



Client Sample ID: C755012A-BA-35-0212

Lab ID#: 1202298-07A

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

v022212	Date of Collection: 2/10/12 12:14:00 PM
1.52	Date of Analysis: 2/23/12 11:28 AM

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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

Not Detected

Not Detected

trans-1,2-Dichloroethene

cis-1,2-Dichloroethene

Air Toxics

Client Sample ID: C755012A-BA-DUP-0212

Lab ID#: 1202298-08A

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

Dil. Factor:	a022213 1 58	1.58 Date of Analysis: 2/22/12 06:		
Compound	Rpt. Limit			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

0.16

0.16

Not Detected

Not Detected

0.63

0.63

		Method
Surrogates	%Recovery	Limits
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

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

Q = Exceeds Quality Control limits.

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



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.

en Wlavel 4/13/12

Date

Nancy Weaver

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.



Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01A

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

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

	Rpt. Limit	Amount	Rpt. Limit	Amount	
Compound	(ppbv)	(ppbv)	(ug/m3)	(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	
*					

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

70-130



4-Bromofluorobenzene

Air Toxics

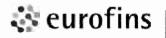
Client Sample ID: C755012A-BA-43-0212

Lab ID#: 1202465-01B

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

File Name: Dil. Factor:	v022421sim 1.57		Date of Collection: 2/17/12 10:33:00 Al 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 Su	mma Canister (SIM Certified)				
				Method	
Surrogates		%Recovery	*	Limits	
1,2-Dichloroethane-d4		110		70-130	
Toluene-d8		88		70-130	

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Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02A

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

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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



Client Sample ID: C755012A-OA-43-0212

Lab ID#: 1202465-02B

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

File Name: Dil. Factor:	v022422sim 1.44	Date of Collection: 2/17/12 10:30:00 AM 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 Sur	mma Canister (SIM Certified)		Method	
Surrogates		%Recovery	•	Limits	
Surrogates 1,2-Dichloroethane-d4		%Recovery 111		70-130	

MU 4/2/12



Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03A

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

File Name: Dil. Factor:	v022423 1.47	Date of Collection: 2/17/12 10:41:00 AM 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

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



Client Sample ID: C755012A-BA-39-0212

Lab ID#: 1202465-03B

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

File Name: Dil. Factor:	v022423sim 1.47		of Collection: 2/1 of Analysis: 2/25	
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 Sur	mma Canister (SIM Certified)		
	•	•		Method
Surrogates	<u> </u>	%Recovery	·	Limits
1,2-Dichloroethane-d4		111		70-130
Toluene-d8		88		70-130
4-Bromofluorobenzene		108		70-130



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)

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

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Client Sample ID: C755012A-OA-39-0212

Lab ID#: 1202465-04B

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

File Name: Dil. Factor:				Collection: 2/17/12 10:39:00 AM 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	

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

Appendix D

Laboratory Analytical Data Form Is, Chain of Custody Forms





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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

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



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 (ydqq)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Compound	(PPS+)	(ррьт)	(ug/iiio)	(ag/iiio)
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

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



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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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

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Page

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by: (Print and Sign) Dow'd Country	Project Info:	Turn Around Time: Normal	Lab Use Only Pressurized by: Date:
5 431 4610 Fax 315	State N; Zip 3211 Project # 14368.19 (Rush Strong Specify	Pressurization Gas: N ₂ He
Lab I.D. Field Sample I.D. (Location)	Date Time Can # of Collection of Collection Ans	Analyses Requested Initial	Canister Pressure/Vacuum Initial Final Receipt Final (psi)
0178 (755012A-BA-43-0212	20 2/16/12+0 1034-1033 T	120	ý ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
15013 1755012A-0A-43-0212)-/5 -)-/5	w S
MAB C755012A-0A-39-0212	35269 216/12 1103-1039 70	30-	-0.5
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes: Report P(E, T(E, 1,1-D(E, 1))1-T(A)	7-DCE, 1111-TCE,
Jished by: (signature) Date/Time	Received by: (signature) Date/Time	UC, + cerbontet.	3.
Relinquished by: (signature) Date/Time Rece	Received by: (signature) Date/Time		
Lab Shipper Name Air Bill #	Temp (°C) Condition		Work Order#
Only While	MA SECO	Yes No Mone	1202465



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

Surrogates	%Recovery	Metnoa Limits
Ourrogates	701 CCOVETY	
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

	Method	
%Recovery	Limits	
128	70-130	
96	70-130	
98	70-130	
	128 96	



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.

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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.

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



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

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

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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

Surre meter	0/Pagarram	Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



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)
Compound	(bbps)	(bbpa)	(ug/ms)	(ug/ilis)
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

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



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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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



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

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



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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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

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

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)
·	,	,		<u>`</u>
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

	-/-	Method
Surrogates	%Recovery	Limits
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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(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.

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



Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with 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, detend, 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

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