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Latham, New York 12110

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July 28, 2011

Mr. Baruch Singer
1033 Kings Highway, LLC
95 Delancey Street
New York, NY 10002

Subject: Soil Vapor Intrusion Study
Former Ferroxcube site, Site Code #356011, 1033 Kings Highway, Saugerties NY

Dear Mr. Singer,

On April 15, 2011 AECOM conducted a soil vapor intrusion study for the property located at 1033 Kings Highway, in Saugerties, New York. The request to complete a soil vapor intrusion study was made by the New York State Department of Environmental Conservation (NYSDEC), in consultation with the NYS Department of Health (NYSDOH). The samples were collected at two unoccupied buildings at the property as part of the investigation of the former Ferroxcube site, located at 1033 Kings Highway.

As background information, "vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil. The goal of the sampling was to assess the potential for vapors from volatile organic compounds (VOCs) in groundwater to enter the building at the property through soil vapor intrusion. This letter describes the sampling that was performed, the results of the sampling, and our conclusions.

OVERALL CONCLUSION

Actions to further evaluate the potential for soil vapor intrusion into the buildings at the property may be appropriate in the future depending on their intended use.

SAMPLING OVERVIEW

When indoor air samples are collected and analyzed, it is typical to detect some level of VOCs because these substances are present in products used daily at home and at work, and in outdoor air that enters a building. To assess whether VOCs may be present in indoor air due to soil vapor intrusion, from vapors released by indoor sources (e.g., stored products, fuel storage and combustion, etc.), or by the infiltration of outdoor air, the following evaluation was performed:

- A Building Inventory (enclosed with this letter) was completed, which includes a list of products present in the buildings that may contain VOCs, and identifies potential points of entry for soil vapor in the buildings. (i.e. drains, discontinuous floor slab, etc). Products containing VOCs were not observed near the sampling locations in Building 2 (northern most building). Several products stored in Building 1 (the southern building) contained VOCs, but were in sealed containers. A Photo Ionization Detector (PID) used to monitor for the potential presence of VOCs did not indicate the products were releasing VOCs.
- A total of three indoor locations were sampled at the property, including two locations in Building 2 and one location in Building 1 (see the sketch maps contained within the Building Inventory).

- One air sample was collected from beneath the slab at each location (referred to as a sub-slab vapor sample), to determine if site related compounds are present beneath the buildings, and one sample of air inside the building was collected at each location.
- One air sample was collected outdoors to determine if outdoor sources of VOCs could impact the indoor air,
- The samples were sent to a laboratory to analyze for the presence of VOCs by EPA Method TO-15,
- The laboratory data was sent to an independent third party chemist to verify its validity and usability. The data validator's report (enclosed with this letter) stated that none of the data was rejected, and the data package was considered acceptable for the intended purpose.

INDOOR AIR RESULTS

- **Building 1**: Carbon tetrachloride, a VOC unrelated to the Ferroxcube site, was detected in the indoor air sample from Building 1 (IA-P3) at a low concentration of 0.47 micrograms per cubic meter, or ug/m^3), similar to its concentration in outside air (0.46 ug/m^3).
- **Building 1:** Trichloroethene (TCE) was detected in sample IA-P3 at a low concentration of 0.29 ug/m^3. TCE is a constituent of interest in groundwater at the Ferroxcube site. TCE was also detected at the corresponding sub-slab vapor sample at this location (SS-P3).
- **Building 1:** Several other VOCs were detected in the indoor air of the building at levels typically found in indoor air. These VOCs were not detected in the sub-slab vapor sample. A summary table (**Table 1**) comparing these results to sub-slab and outdoor air samples collected at the buildings is enclosed with this letter.
- **Building 2**: The VOC Freon-113 (1,1,2-Trichloro-1,2,2-trifluoroethane), a constituent of interest in groundwater at the Ferroxcube site, was detected in the indoor air sample IA-P2 at a low concentration of 1.5 ug/m^3. Freon was also detected at the corresponding sub-slab vapor sample at this location (SS-P2).
- **Building 2**: Carbon tetrachloride, a VOC unrelated to the Ferroxcube site, was detected in the indoor air sample from Building 2 (IA-P2) at a low concentration of 0.47 ug/m^3, similar to its concentration in outside air (0.46 ug/m^3). Several other VOCs were detected in the indoor air of the building at levels typically found in indoor air.

SUB-SLAB VAPOR RESULTS

- **Building 1:** TCE was detected at the sub-slab vapor sample location (SS-P3) at a concentration of 3,400 ug/m^3. The VOCs 1,1,1-Trichloroethane (TCA) at 57 ug/m^3, tetrachloroethene (PCE) at 290 ug/m^3, cis-1, 2 dichloroethene (790 ug/m^3), and trans-1,2 dichloroethene (59 ug/m^3), were also detected at this location.
- **Building 2**: Freon-113 was detected at the sub-slab vapor sample locations (SS-P1 and SS-P2) at concentrations of 1,100 ug/m^3 and 11,000 ug/m^3, respectively

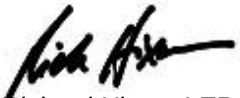
OUTDOOR AIR RESULTS

- VOCs were detected in an outdoor air sample collected outside the buildings at levels consistent with typical outdoor air background levels, and are not a concern.

CONTACT INFORMATION

If you wish to discuss these results or any of the information provided in this letter, please contact Ms. Kristin Kulow of the NYSDOH at (607) 432-3911, or Ms. Michelle Tipple of the NYSDEC at (845) 256-3146.

Yours sincerely,



Richard Hixon, LEP, RG

AECOM Technical Services Northeast
40 British American Boulevard
Latham, NY 12110

cc: Ms. Michelle Tipple, NYSDEC Region 3
Ms. Kristin Kulow, NYSDOH, Oneonta NY
Mr. Ray Larkin, Philips Electronics North America Corporation

Enc: **Table 1:** A summary table showing the results for each sample.
A Data Usability Summary Report containing the validated laboratory results for each sample.
A copy of the *Indoor Air Quality Questionnaire and Building Inventory* for Buildings 1 and 2.

Table 1
Ferroxcube Soil Vapor Intrusion Study
Laboratory Results

Sample ID	IA-P1-041411	SS-P1-041411	IA-P2-041411	SS-P2-041411	IA-P3-041411	SS-P3-041411	OA-041411
Collection Date & Time	4/15/2011 935	4/15/2011 940	4/15/2011 915	4/15/2011 920	4/15/2011 1115	4/15/2011 1125	4/15/2011 1135
Analyte	Results (ug/m3)	Results (ug/m3)	Results (ug/m3)	Results (ug/m3)	Results (ug/m3)	Results (ug/m3)	Results (ug/m3)
Carbon tetrachloride	0.52	6.3 U	0.47	59 U	0.47	38 U	0.46
Trichloroethene	0.21 U	5.4 U	0.21 U	51 U	0.29	3400	0.21 U
1,1,1-Trichloroethane	0.22 U	5.5 U	0.22 U	51 U	0.22 U	57	0.22 U
Tetrachloroethene	0.27 U	6.8 U	0.27 U	64 U	0.27 U	290	0.27 U
1,1,2,2-Tetrachloroethane	0.27 U	6.9 U	0.27 U	65 U	0.27 U	42 U	0.27 U
Freon TF	1.5 U	1100	1.5	11000	1.5 U	47 U	1.5 U
1,1,2-Trichloroethane	0.22 U	5.5 U	0.22 U	51 U	0.22 U	33 U	0.22 U
1,1-Dichloroethane	0.16 U	4 U	0.16 U	38 U	0.16 U	25 U	0.16 U
1,1-Dichloroethene	0.16 U	4 U	0.16 U	37 U	0.16 U	24 U	0.16 U
1,2-Dibromoethane	0.31 U	7.7 U	0.31 U	72 U	0.31 U	47 U	0.31 U
1,2-Dichloroethane	0.32 U	4 U	0.32 U	38 U	0.32 U	25 U	0.32 U
1,2-Dichloropropane	0.37 U	4.6 U	0.37 U	43 U	0.37 U	28 U	0.37 U
1,2-Dichlorotetrafluoroethane	0.28 U	7 U	0.28 U	66 U	0.28 U	43 U	0.28 U
1,3,5-Trimethylbenzene	0.39 U	4.9 U	0.39 U	46 U	0.39 U	30 U	0.39 U
1,3-Butadiene	0.18 U	2.2 U	0.18 U	21 U	0.18 U	13 U	0.18 U
2,2,4-Trimethylpentane	0.19 U	4.7 U	0.19 U	44 U	0.19 U	28 U	0.32
3-Chloropropene	0.25 U	7.8 U	0.25 U	74 U	0.25 U	48 U	0.25 U
4-Ethyltoluene	0.2 U	4.9 U	0.2 U	46 U	0.2 U	30 U	0.2 U
Benzene	0.33	5.9	0.36	30 U	0.23	19 U	0.48
Bromodichloromethane	0.27 U	6.7 U	0.27 U	63 U	0.27 U	41 U	0.27 U
Bromoethene(Vinyl Bromide)	0.35 U	4.4 U	0.35 U	41 U	0.35 U	27 U	0.35 U
Bromoform	0.41 UJ	10 U	0.41 UJ	97 U	0.41 UJ	63 U	0.41 UJ
Bromomethane	0.31 U	3.9 U	0.31 U	37 U	0.31 U	24 U	0.31 U
Chloroethane	0.21 U	6.6 U	0.21 U	62 U	0.21 U	40 U	0.21 U
Chloroform	0.2 U	4.9 U	0.2 U	46 U	0.2 U	30 U	0.2 U
cis-1,2-Dichloroethene	0.16 U	5	0.16 U	37 U	0.16 U	790	0.16 U
cis-1,3-Dichloropropene	0.18 U	4.5 U	0.18 U	43 U	0.18 U	28 U	0.18 U
Cyclohexane	0.14 U	3.4 U	0.18	32 U	0.14 U	21 U	5.3
Dibromochloromethane	0.34 U	8.5 U	0.34 U	80 U	0.34 U	52 U	0.34 U
Dichlorodifluoromethane	2.8	12 U	2.5	120 U	2.4	75 U	2.3
Ethylbenzene	0.17 U	4.3 U	0.17 U	41 U	0.17 U	26 U	0.41
Methyl tert-butyl ether	0.14 U	3.6 U	0.14 U	34 U	0.14 U	22 U	0.14 U
Methylene Chloride	2.8 U	8.7 U	2.8 U	82 U	2.8 U	53 U	2.8 U
m-Xylene & p-Xylene	0.35 U	11 U	0.35 U	100 U	0.35 UJ	66 U	0.89 J
n-Heptane	0.16 U	8	0.5	39 U	0.16 U	25 U	0.55
n-Hexane	0.28 U	22	0.59	65	0.28 U	21 U	0.82
o-Xylene	0.17 U	4.3 U	0.17 U	41 U	0.17 UJ	26 U	0.32 J
Toluene	0.38	4.2	0.77	35 U	0.43	23 U	15
trans-1,2-Dichloroethene	0.16 U	4 U	0.16 U	37 U	0.16 U	59	0.16 U
trans-1,3-Dichloropropene	0.18 U	4.5 U	0.18 U	43 U	0.18 U	28 U	0.18 U
Trichlorofluoromethane	1.3	5.6 U	1.2	53 U	1.2	34 U	1.1
Vinyl chloride	0.2 U	2.6 U	0.2 U	24 U	0.2 U	16 U	0.2 U
1,2-Dichloroethene, Total	0.16 U	5	0.16 U	37 U	0.16 U	850	0.16 U
Xylenes, Total	0.17 U	4.3 U	0.43	51	0.17 UJ	26 U	1.2 J

Bold values indicate that the analyte was detected in laboratory analysis.

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.

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
PHILIPS, SAUGERTIES, NEW YORK

Client: AECOM Technical Services, Inc., Latham, New York
SDG: 200-4780
Laboratory: Test America, Burlington, Vermont
Site: Philips, Saugerties, New York
Date: May 20, 2011

EDS ID	Client ID	Laboratory ID	Matrix
1	SS-P1-041411	200-4780-1	Air
2*	IA-P1-041411	200-4780-2	Air
3	SS-P2-041411	200-4780-3	Air
4*	IA-P2-041411	200-4780-4	Air
5	SS-P3-041411	200-4780-5	Air
6*	IA-P3-041411	200-4780-6	Air
7*	OA-041411	200-4780-7	Air
7DL*	OA-041411DL	200-4780-7DL	Air

*- Analyzed for Low Level TO15

A Data Usability Summary Review was performed on the analytical data for seven air samples collected April 15, 2011 by AECOM Technical Services at the Philips site in Saugerties, New York State. 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-15, "*Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*".

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 Volatile Organics of Ambient Air on Canisters by Method TO-15, 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
- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- Surrogate Compound Recoveries

- Surrogate Compound Recoveries
- GC/MS Tuning
- Method Blank Contamination
- Initial and Continuing Calibration Summaries
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

The items listed above were technically and contractually 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.

- Several compounds were qualified as estimated in several samples due to high continuing calibration %D values.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- 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 Compound Recoveries

- All samples exhibited acceptable surrogate recoveries.

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded 30 percent deviation (%D) and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
04/22/11	Bromoform	35.7%	J/UJ	2, 4
04/25/11	m-Xylene	30.5%	J/UJ	6, 7, 7DL
	p-Xylene	30.3%	J/UJ	
	Bromoform	42.6%	J/UJ	

Compound Quantitation

- All samples were analyzed at various dilutions due to high concentrations of target compounds.
- EDS sample ID #7 exhibited a high concentration of the compound toluene over the calibration range, and was flagged (E) by the laboratory. The sample was reanalyzed at a 5X dilution, and the dilution results for toluene should be used for reporting purposes.
- EDS sample IDs 2, 4, 6, 7, and 7DL were analyzed for low-level TO15 volatile organic compounds.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate samples were not analyzed.

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed: Nancy Weaver Dated: 5/24/11

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: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

Client Sample ID: **SS-P1-041411**

1

Lab Sample ID: 200-4780-1
Client Matrix: Air

Date Sampled: 04/15/2011 0940
Date Received: 04/20/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-17029	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	gfif008.d
Dilution:	5.0			Initial Weight/Volume:	40 mL
Analysis Date:	04/25/2011 1442			Final Weight/Volume:	200 mL
Prep Date:	04/25/2011 1442			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	12	U	12
1,2-Dichlorotetrafluoroethane	7.0	U	7.0
Vinyl chloride	2.6	U	2.6
1,3-Butadiene	2.2	U	2.2
Bromomethane	3.9	U	3.9
Chloroethane	6.6	U	6.6
Bromoethene(Vinyl Bromide)	4.4	U	4.4
Trichlorofluoromethane	5.6	U	5.6
1,1-Dichloroethene	4.0	U	4.0
3-Chloropropene	7.8	U	7.8
Methylene Chloride	8.7	U	8.7
Methyl tert-butyl ether	3.6	U	3.6
trans-1,2-Dichloroethene	4.0	U	4.0
Freon TF	1100		7.7
n-Hexane	22		3.5
1,1-Dichloroethane	4.0	U	4.0
cis-1,2-Dichloroethene	5.0		4.0
1,2-Dichloroethene, Total	5.0		4.0
Chloroform	4.9	U	4.9
1,1,1-Trichloroethane	5.5	U	5.5
Cyclohexane	3.4	U	3.4
Carbon tetrachloride	6.3	U	6.3
2,2,4-Trimethylpentane	4.7	U	4.7
Benzene	5.9		3.2
1,2-Dichloroethane	4.0	U	4.0
n-Heptane	8.0		4.1
Trichloroethene	5.4	U	5.4
1,2-Dichloropropane	4.6	U	4.6
Bromodichloromethane	6.7	U	6.7
cis-1,3-Dichloropropene	4.5	U	4.5
Toluene	4.2		3.8
trans-1,3-Dichloropropene	4.5	U	4.5
1,1,2-Trichloroethane	5.5	U	5.5
Tetrachloroethene	6.8	U	6.8
Dibromochloromethane	8.5	U	8.5
1,2-Dibromoethane	7.7	U	7.7
Ethylbenzene	4.3	U	4.3
m,p-Xylene	11	U	11
Xylene, o-	4.3	U	4.3
Xylene (total)	4.3	U	4.3
Bromoform	10	U	10
1,1,2,2-Tetrachloroethane	6.9	U	6.9
4-Ethyltoluene	4.9	U	4.9
1,3,5-Trimethylbenzene	4.9	U	4.9

 NW 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

Client Sample ID: **IA-P1-041411**

2

Lab Sample ID: 200-4780-2
Client Matrix: Air

Date Sampled: 04/15/2011 0935
Date Received: 04/20/2011 1020

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

Analysis Method:	TO15 LL	Analysis Batch:	200-16960	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejs025.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	04/23/2011 0653			Final Weight/Volume:	500 mL
Prep Date:	04/23/2011 0653			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.8		0.20
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.3		0.22
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.28	U	0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.14	U	0.14
Carbon tetrachloride	0.52		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.33		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.16	U	0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	0.38		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.17	U	0.17
o-Xylene	0.17	U	0.17
Bromoform	0.41 UJ	~~U~~	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.35	U	0.35
Xylenes, Total	0.17	U	0.17

MW 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

3

Client Sample ID: **SS-P2-041411**

Lab Sample ID: 200-4780-3
Client Matrix: Air

Date Sampled: 04/15/2011 0920
Date Received: 04/20/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-16922	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	gfie025.d
Dilution:	47			Initial Weight/Volume:	20 mL
Analysis Date:	04/23/2011 0642			Final Weight/Volume:	200 mL
Prep Date:	04/23/2011 0642			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	120	U	120
1,2-Dichlorotetrafluoroethane	66	U	66
Vinyl chloride	24	U	24
1,3-Butadiene	21	U	21
Bromomethane	37	U	37
Chloroethane	62	U	62
Bromoethene(Vinyl Bromide)	41	U	41
Trichlorofluoromethane	53	U	53
1,1-Dichloroethene	37	U	37
3-Chloropropene	74	U	74
Methylene Chloride	82	U	82
Methyl tert-butyl ether	34	U	34
trans-1,2-Dichloroethene	37	U	37
Freon TF	11000		72
n-Hexane	65		33
1,1-Dichloroethane	38	U	38
cis-1,2-Dichloroethene	37	U	37
1,2-Dichloroethene, Total	37	U	37
Chloroform	46	U	46
1,1,1-Trichloroethane	51	U	51
Cyclohexane	32	U	32
Carbon tetrachloride	59	U	59
2,2,4-Trimethylpentane	44	U	44
Benzene	30	U	30
1,2-Dichloroethane	38	U	38
n-Heptane	39	U	39
Trichloroethene	51	U	51
1,2-Dichloropropane	43	U	43
Bromodichloromethane	63	U	63
cis-1,3-Dichloropropene	43	U	43
Toluene	35	U	35
trans-1,3-Dichloropropene	43	U	43
1,1,2-Trichloroethane	51	U	51
Tetrachloroethene	64	U	64
Dibromochloromethane	80	U	80
1,2-Dibromoethane	72	U	72
Ethylbenzene	41	U	41
m,p-Xylene	100	U	100
Xylene, o-	41	U	41
Xylene (total)	51		41
Bromoform	97	U	97
1,1,2,2-Tetrachloroethane	65	U	65
4-Ethyltoluene	46	U	46
1,3,5-Trimethylbenzene	46	U	46

 HW 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

4

Client Sample ID: **IA-P2-041411**

Lab Sample ID: 200-4780-4
Client Matrix: Air

Date Sampled: 04/15/2011 0915
Date Received: 04/20/2011 1020

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

Analysis Method:	TO15 LL	Analysis Batch:	200-16960	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejs026.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	04/23/2011 0749			Final Weight/Volume:	500 mL
Prep Date:	04/23/2011 0749			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5		0.20
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.2		0.22
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		1.5
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.59		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	0.18		0.14
Carbon tetrachloride	0.47		0.25
2,2,4-Trimethylpentane	0.19	U	0.19
Benzene	0.36		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.50		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	0.77		0.15
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.17	U	0.17
o-Xylene	0.17	U	0.17
Bromoform	0.41 UJ	~~U~~	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.35	U	0.35
Xylenes, Total	0.43		0.17

MJ 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

Client Sample ID: **SS-P3-041411**

5

Lab Sample ID: 200-4780-5
Client Matrix: Air

Date Sampled: 04/15/2011 1125
Date Received: 04/20/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-16922	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	gfie026.d
Dilution:	30.5			Initial Weight/Volume:	30 mL
Analysis Date:	04/23/2011 0733			Final Weight/Volume:	200 mL
Prep Date:	04/23/2011 0733			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	75	U	75
1,2-Dichlorotetrafluoroethane	43	U	43
Vinyl chloride	16	U	16
1,3-Butadiene	13	U	13
Bromomethane	24	U	24
Chloroethane	40	U	40
Bromoethene(Vinyl Bromide)	27	U	27
Trichlorofluoromethane	34	U	34
1,1-Dichloroethene	24	U	24
3-Chloropropene	48	U	48
Methylene Chloride	53	U	53
Methyl tert-butyl ether	22	U	22
trans-1,2-Dichloroethene	59		24
Freon TF	47	U	47
n-Hexane	21	U	21
1,1-Dichloroethane	25	U	25
cis-1,2-Dichloroethene	790		24
1,2-Dichloroethene, Total	850		24
Chloroform	30	U	30
1,1,1-Trichloroethane	57		33
Cyclohexane	21	U	21
Carbon tetrachloride	38	U	38
2,2,4-Trimethylpentane	28	U	28
Benzene	19	U	19
1,2-Dichloroethane	25	U	25
n-Heptane	25	U	25
Trichloroethene	3400		33
1,2-Dichloropropane	28	U	28
Bromodichloromethane	41	U	41
cis-1,3-Dichloropropene	28	U	28
Toluene	23	U	23
trans-1,3-Dichloropropene	28	U	28
1,1,2-Trichloroethane	33	U	33
Tetrachloroethene	290		41
Dibromochloromethane	52	U	52
1,2-Dibromoethane	47	U	47
Ethylbenzene	26	U	26
m,p-Xylene	66	U	66
Xylene, o-	26	U	26
Xylene (total)	26	U	26
Bromoform	63	U	63
1,1,2,2-Tetrachloroethane	42	U	42
4-Ethyltoluene	30	U	30
1,3,5-Trimethylbenzene	30	U	30

NM 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

6

Client Sample ID: **IA-P3-041411**

Lab Sample ID: 200-4780-6
Client Matrix: Air

Date Sampled: 04/15/2011 1115
Date Received: 04/20/2011 1020

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

Analysis Method:	TO15 LL	Analysis Batch:	200-17015	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejt014.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	04/25/2011 2118			Final Weight/Volume:	500 mL
Prep Date:	04/25/2011 2118			Injection Volume:	500 mL

Analyte	Result (ug/m3)		Qualifier	RL
Dichlorodifluoromethane	2.4			0.20
1,2-Dichlorotetrafluoroethane	0.28		U	0.28
Vinyl chloride	0.20		U	0.20
1,3-Butadiene	0.18		U	0.18
Bromomethane	0.31		U	0.31
Chloroethane	0.21		U	0.21
Bromoethene(Vinyl Bromide)	0.35		U	0.35
Trichlorofluoromethane	1.2			0.22
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		U	1.5
1,1-Dichloroethene	0.16		U	0.16
3-Chloropropene	0.25		U	0.25
Methylene Chloride	2.8		U	2.8
Methyl tert-butyl ether	0.14		U	0.14
trans-1,2-Dichloroethene	0.16		U	0.16
n-Hexane	0.28		U	0.28
1,1-Dichloroethane	0.16		U	0.16
cis-1,2-Dichloroethene	0.16		U	0.16
Chloroform	0.20		U	0.20
1,1,1-Trichloroethane	0.22		U	0.22
Cyclohexane	0.14		U	0.14
Carbon tetrachloride	0.47			0.25
2,2,4-Trimethylpentane	0.19		U	0.19
Benzene	0.23			0.13
1,2-Dichloroethane	0.32		U	0.32
n-Heptane	0.16		U	0.16
Trichloroethene	0.29			0.21
1,2-Dichloropropane	0.37		U	0.37
Bromodichloromethane	0.27		U	0.27
cis-1,3-Dichloropropene	0.18		U	0.18
Toluene	0.43			0.15
trans-1,3-Dichloropropene	0.18		U	0.18
1,1,2-Trichloroethane	0.22		U	0.22
Tetrachloroethene	0.27		U	0.27
Dibromochloromethane	0.34		U	0.34
1,2-Dibromoethane	0.31		U	0.31
Ethylbenzene	0.17		U	0.17
o-Xylene	0.17	UJ	~~U~~	0.17
Bromoform	0.41	UJ	~~U~~	0.41
1,1,2,2-Tetrachloroethane	0.27		U	0.27
4-Ethyltoluene	0.20		U	0.20
1,3,5-Trimethylbenzene	0.39		U	0.39
1,2-Dichloroethene, Total	0.16		U	0.16
m-Xylene & p-Xylene	0.35	UJ	~~U~~	0.35
Xylenes, Total	0.17	UJ	U	0.17

MW 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

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Client Sample ID: **OA-041411**

Lab Sample ID: 200-4780-7
Client Matrix: Air

Date Sampled: 04/15/2011 1135
Date Received: 04/20/2011 1020

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

Analysis Method:	TO15 LL	Analysis Batch:	200-17015	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejt015.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	04/25/2011 2214			Final Weight/Volume:	500 mL
Prep Date:	04/25/2011 2214			Injection Volume:	500 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.3		0.20
1,2-Dichlorotetrafluoroethane	0.28	U	0.28
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.18	U	0.18
Bromomethane	0.31	U	0.31
Chloroethane	0.21	U	0.21
Bromoethene(Vinyl Bromide)	0.35	U	0.35
Trichlorofluoromethane	1.1		0.22
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U	1.5
1,1-Dichloroethene	0.16	U	0.16
3-Chloropropene	0.25	U	0.25
Methylene Chloride	2.8	U	2.8
Methyl tert-butyl ether	0.14	U	0.14
trans-1,2-Dichloroethene	0.16	U	0.16
n-Hexane	0.82		0.28
1,1-Dichloroethane	0.16	U	0.16
cis-1,2-Dichloroethene	0.16	U	0.16
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.22	U	0.22
Cyclohexane	5.3		0.14
Carbon tetrachloride	0.46		0.25
2,2,4-Trimethylpentane	0.32		0.19
Benzene	0.48		0.13
1,2-Dichloroethane	0.32	U	0.32
n-Heptane	0.55		0.16
Trichloroethene	0.21	U	0.21
1,2-Dichloropropane	0.37	U	0.37
Bromodichloromethane	0.27	U	0.27
cis-1,3-Dichloropropene	0.18	U	0.18
Toluene	~~15~~ 13	~~E~~	~~0.15~~ 0.19
trans-1,3-Dichloropropene	0.18	U	0.18
1,1,2-Trichloroethane	0.22	U	0.22
Tetrachloroethene	0.27	U	0.27
Dibromochloromethane	0.34	U	0.34
1,2-Dibromoethane	0.31	U	0.31
Ethylbenzene	0.41		0.17
o-Xylene	0.32 J		0.17
Bromoform	0.41 UJ	~~U~~	0.41
1,1,2,2-Tetrachloroethane	0.27	U	0.27
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.39	U	0.39
1,2-Dichloroethene, Total	0.16	U	0.16
m-Xylene & p-Xylene	0.89 J		0.35
Xylenes, Total	1.2 J		0.17

MW 5/20/11

Client: AECOM, Inc.

Job Number: 200-4780-1
Sdg Number: 200-4780

7DL

Client Sample ID: **OA-041411**

Lab Sample ID: 200-4780-7
Client Matrix: Air

Date Sampled: 04/15/2011 1135
Date Received: 04/20/2011 1020

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

Analysis Method:	TO15 LL	Analysis Batch:	200-17015	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eejt026.d
Dilution:	5.0			Initial Weight/Volume:	100 mL
Analysis Date:	04/26/2011 0828	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	04/26/2011 0828			Injection Volume:	500 mL

use original results

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.2	D	0.25
1,2-Dichlorotetrafluoroethane	0.35	U	0.35
Vinyl chloride	0.26	U	0.26
1,3-Butadiene	0.22	U	0.22
Bromomethane	0.39	U	0.39
Chloroethane	0.26	U	0.26
Bromoethene(Vinyl Bromide)	0.44	U	0.44
Trichlorofluoromethane	1.1	D	0.28
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	U	1.9
1,1-Dichloroethene	0.20	U	0.20
3-Chloropropene	0.31	U	0.31
Methylene Chloride	3.5	U	3.5
Methyl tert-butyl ether	0.18	U	0.18
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.79	D	0.35
1,1-Dichloroethane	0.20	U	0.20
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.24	U	0.24
1,1,1-Trichloroethane	0.27	U	0.27
Cyclohexane	4.9	D	0.17
Carbon tetrachloride	0.42	D	0.31
2,2,4-Trimethylpentane	0.24	D	0.23
Benzene	0.37	D	0.16
1,2-Dichloroethane	0.40	U	0.40
n-Heptane	0.46	D	0.20
Trichloroethene	0.27	U	0.27
1,2-Dichloropropane	0.46	U	0.46
Bromodichloromethane	0.34	U	0.34
cis-1,3-Dichloropropene	0.23	U	0.23
Toluene	13	D	0.19
trans-1,3-Dichloropropene	0.23	U	0.23
1,1,2-Trichloroethane	0.27	U	0.27
Tetrachloroethene	0.34	U	0.34
Dibromochloromethane	0.43	U	0.43
1,2-Dibromoethane	0.38	U	0.38
Ethylbenzene	0.33	D	0.22
o-Xylene	0.28 J	D	0.22
Bromoform	0.52 UJ	U	0.52
1,1,2,2-Tetrachloroethane	0.34	U	0.34
4-Ethyltoluene	0.25	U	0.25
1,3,5-Trimethylbenzene	0.49	U	0.49
1,2-Dichloroethene, Total	0.20	U	0.20
m-Xylene & p-Xylene	0.80 J	D	0.43
Xylenes, Total	1.1 J	D	0.22

MW 5/20/11

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 John Santacroce Date/Time Prepared April 14, 2011

Preparer's Affiliation AECOM Phone No. 518-951-2700

Purpose of Investigation Soil Vapor Investigation, Former Ferrocube Site

1. OCCUPANT:

Interviewed: Y (N) Building was not occupied.

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location None Age of Occupants _____

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

Interviewed: Y (N) : Not at this address

Last Name: _____ First Name: 1033 Kings Highway, LLC

Address: 95 Delancey Street, NY, NY

County: _____

Home Phone: _____ Office Phone: 212-254-4374

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School Commercial/Multi-use
(Industrial), Vacant Church Other: _____

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

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

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) No operating business was apparent.

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

Other characteristics: (One floor building on a concrete slab.)

Number of floors 1 Building age Approx. 1960

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

4. AIRFLOW

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

Airflow between floors

Not analyzed

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

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

a. Above grade construction:	wood frame	concrete	stone	brick Metal siding over steel frame
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor: (at grade) (First floor)	concrete	dirt	stone	other _____
d. ~~Basement~~ First floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed &	(portions) sealed	sealed with epoxy	
f. Foundation walls:	poured	block	stone	✓ other slab only.
g. Foundation walls:	unsealed	sealed	sealed with _____ (N/A)	
h. The ~~basement~~ first floor is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	N/A
j. Sump present?	Y / N N/A			
k. Water in sump?	Y / N (not applicable)			

Basement/Lowest level depth below grade: 0 (feet) (at grade)

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

Slab is relatively sound, but there are numerous perforations for former utilities.

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

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

Hot air circulation	Heat pump	(Hot water baseboard)	There are two boilers in Building 1.
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other (The buildings are not being heated or cooled).

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 Building 1
Air conditioning:	Central Air	Window units	Open Windows	(None)

Are there air distribution ducts present? Y/(N) None noted, but building was dark

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.

None observed

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	None
1st Floor	Former production areas, offices. Vacant except for some furniture storage in Building 2.
2nd Floor	None
3rd Floor	None
4th Floor	None

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y/(N)

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

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y)/N/NA Please specify A propane forklift is stored in Building 1

d. Has the building ever had a fire? Y /(N) When?

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

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

g. Is there smoking in the building? Y / N How frequently? NA

h. Have cleaning products been used recently? Y / N When & Type? NA

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

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? _____

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) N

If yes, please describe: The facility was most recently used as a candle manufacturing factory, and bears strong odors from the fragrance substances used.

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

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

If yes, what types of solvents are used? Solvents were used historically by Ferrox Cube.

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

Is there a radon mitigation system for the building/structure? Y / (N) **Date of Installation:** _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water (Drilled Well) Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer (Septic Tank) Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

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

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

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

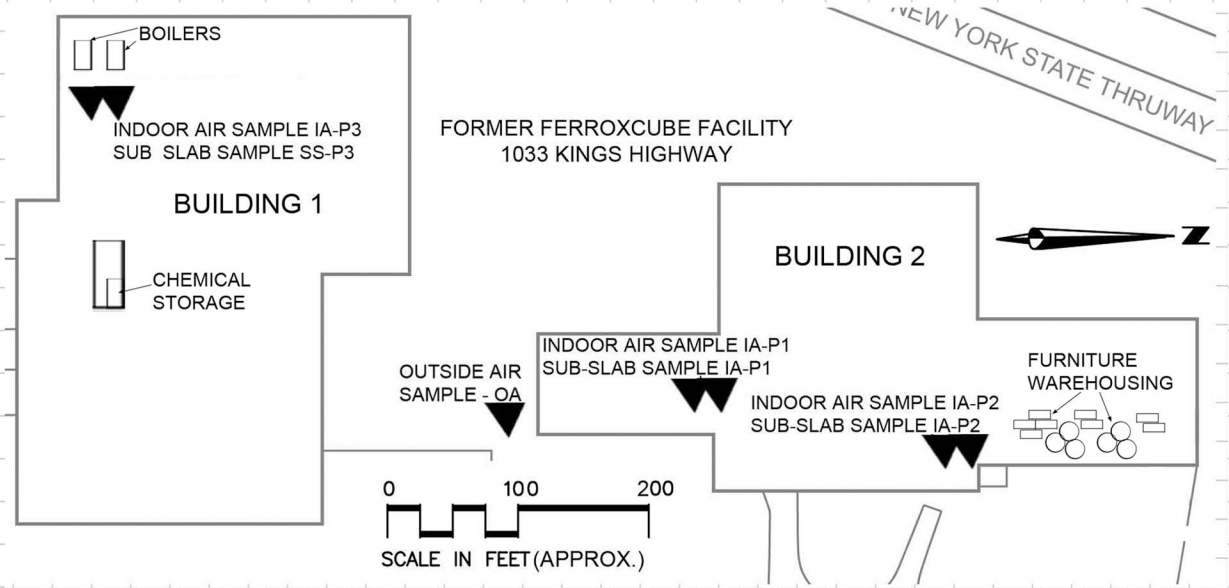
11. FLOOR PLANS

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

Basement:

Not Applicable, buildings are built slab on grade.

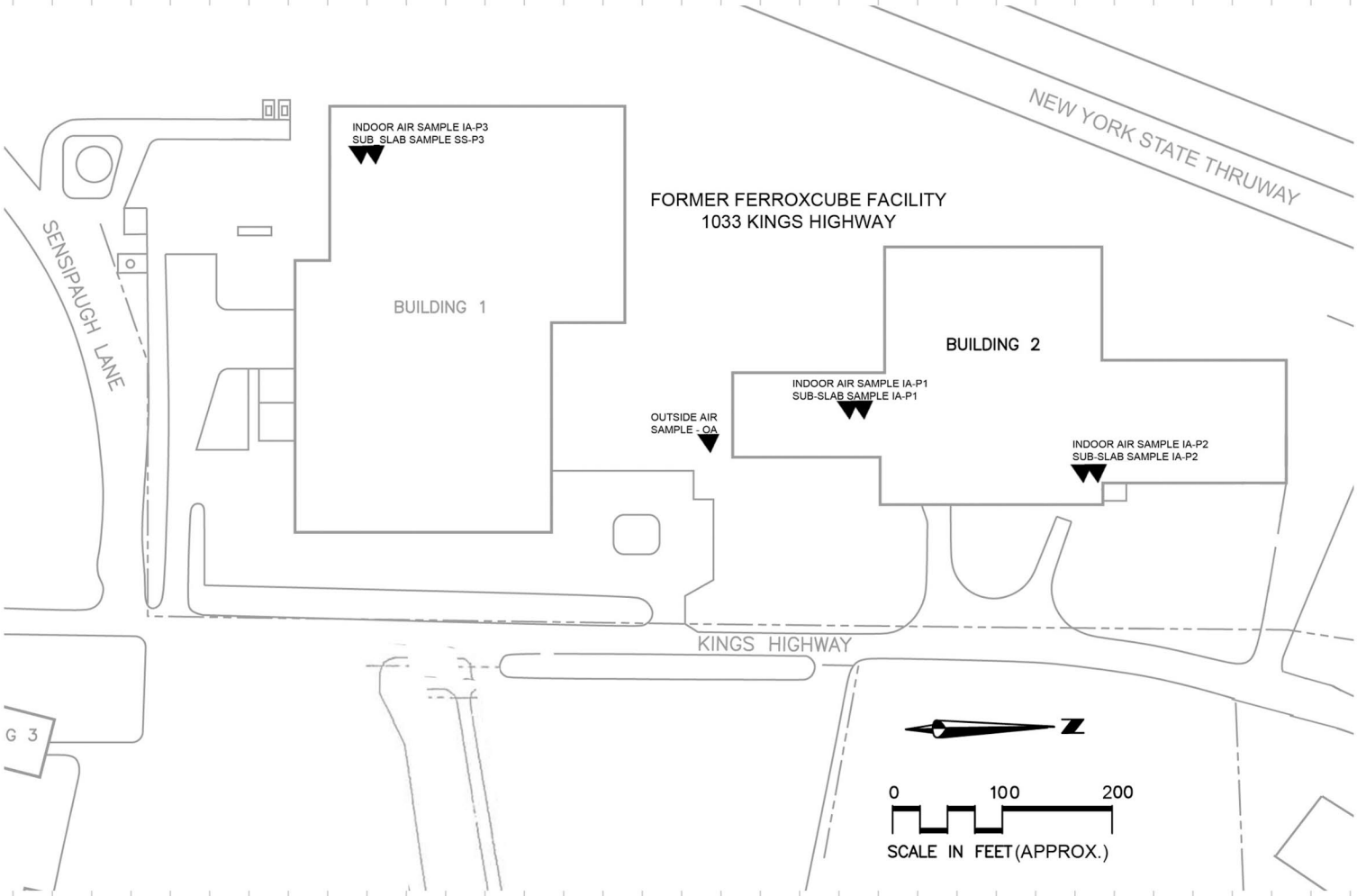
First Floor:



12. OUTDOOR PLOT

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

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Pho Check 5000 Photoionization detector

List specific products found in ~~the residence~~ Building 1 that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Building 1	Liquid Propane Cylinder	20 lbs	Rusted	Propane	0	N
" "	Zep Glass cleaner	32 oz	Good	Ammonia	0	Y
" "	Stardrip sink marmatic 797	500 ml	Good	Dilute phenol	0	Y
" "	Liquid Plumber	2 qts	Good	Sodium hydroxide/hypochlorite	0	Y
" "	Zep TKO Hand cleaner	1 gal.	Good	Alpha Olefin Sulfonate, Nonylphenoxypoly ethyleneoxy ethanol	0	N
" "	North 212 skin conditioner	2x1 gal	Good	water, mineral oil, glycerine	0	Y
" "	Formulabs fluorescent dye tablets	Bottle 100 tabs	Good	None hazardous per 29 CFR 1910.1200	0	Y
" "	Zud multi purpose cleaner	19 oz	Good	Di propylene glycol ether	0	Y
" "	CRC Industrial lube & corrosion inhibitor	11 oz	Good	Isoparaffinic hydrocarbon mineral oil, carbon dioxide	0	Y
" "	Lysol disinfectant bathroom cleaner	13 oz	Good	Diethylene glycol monobutyl ether, sodium hydroxide	0	N
" "	Bernzomatic propane cylinders	7 x 14 oz	Good	Propane	0	Y
" "	Cheer Laundry Detergent	2.5 qt.	Good	Soda ash, linear alkyl benzene sulfonate, alkylsulfate	0	Y
" "	Zep F-10 Hand Cleaner	1 gal.	Good	Silicate feldspar, crystalline silica, sodiumbenzenesulfonate	0	Y
" "	NAPA Lacquer Glazing Putty	1 lb.	Good	Talc, toluene nitrocellulose phthalate, acetate, ethyl benzene	0	Y
" "	NAPA fiberglass Resin w/ hardener	1 qa.	Good	Unsaturated polyester resin, ethenyl benzene (styrene)	0	Y
" "	Dow Corning Molykote grease	5.3 oz.	Good	Fluoro glicate grease, not a hazardous mixture per 1910.1200	0	Y
" "	Bernzomatic lead-free flux	.5 oz	Good	Tin, copper, urea	0	Y
" "	Oatey No 95 lead free flux	8 oz.	Good	Petroleum (oil mist), zinc chloride, tin, copper	0	Y
" "	Silicone caulk	7 tubes	Good	Petroleum distillates, methyltriacetoxysilane	0	

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM (continued)

Make & Model of field instrument used: Photo Check 5000

List specific products found in the ~~residence~~ Building 1 that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Building 1	Revere Fiber Patch Epoxy Floor Resurfacer	5 gal.	Good	Diglycidyl ether of bisphenol A, xylene, ethyl benzene	0	Y
" "	Imperial Calgon Scale Remover	10 lbs.	Good	Sulfamic acid	0	N
" "	Goop Hand Cleaner	14 oz	Good	Isoparaffins, surfactants, glycerin, lanolin	0	Y
" "	Sta-put Plumbers putty	3 lbs	Good	Calcium carbonate, kaolinite, quartz	0	Y
" "	Clorox fresh scent	3x 1 gal	Good	Hydrogen peroxide, myristamine oxide	0	Y
" "	Sheetrock joint compound	12 lbs.	Good	Crystalline silica	0	Y
" "	Tru-Test Fibred Plastic roof cement	5 gal.	Good	Petroleum asphalt, fillers, mineral spirits	0	N
" "	Elmers Carpenter Glue	1 gal	Good	No hazardous ingredients	0	N
" "	Goja Pumice Hand Cleaner	2 T 4 lbs	Good	D-Limonene	0	N
" "	Roto Professional Drain Opener	32 oz	Good	Potassium Hydroxide	0	N
" "	CRC Brakekleen non-chlorinated	14 oz	Good	Methanol, acetone, toluene, heptane, carbon dioxide	0	Y
" "	Instant Power guard Kitchen drain opener	11 oz	Good	Sodium hydroxide, potassium hydroxide	0	N
" "	Zep next step Floor Restorer	32 oz	Good	Isopropyl alcohol, tetrasodium ethylenediamine tetraacetate	0	N
" "	Tectonic Excell 101 all purpose cleaner	1 gal.	Good	No hazardous ingredients (1910.1200 (i))	0	N
" "	Gasiel action 23 TBC cleaner	32 oz	Good	Hydrogen chloride	0	N
" "	Bruske blot-it fill compound	2.5 lbs	Good	inert formulation of sound clay minerals	0	N
" "	Lignia alkifoam concentrate	4x 1 gal.	Good	Sodium hydroxide	0	N
" "	Henry premium flooring adhesive	3x 1 gal.	Good	Light naphthenic distillate, ethylene glycol phenol ether, diethylene glycol phenol ether	0	N
" "	United Laboratories Zyme-out degreaser gut #1394	5 gal	Good	No hazardous materials as per 1910.1200	0	N

* 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.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Pho' Check 5000

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Bulding 2	No chemicals observed in Building				0	

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

VAPOR INTRUSION SURVEY

Site: Philips
City, State: Saugerties, NY
Date: 4/14-15/11
Sampled by: John Santacroce

Sample ID	Sample Date	Canister Number	Regulator Number	Sample Start Time	Sample Stop Time	Inches Sample Depth	Liters Purge Volume	Liters Sampled Volume	Moisture Content	PPM [1] PID Reading	Inches of Mercury Vacuum Before	Inches of Mercury Vacuum After
SS-P2-041411	4/14-15/11	4139	4730	1053	9:20	-6"		6L		0.951	30	7
OA-041411		4289	3986	1143	11:35	+3'		6L		0.000	30	-10
SS-P3-041411		4445	5230	12:25	11:25	-10"		6L		0.027	30	-7
IA-P3-041411		3201	5233	12:25	11:15	14'		6L		0.000	28.5	-5
IA-P1-041411		5043	4937	1046	9:35	+4'		6L		0.000	>30	-8
SS-P1-041411		4020	2840	1046	9:40	-10"		6L		10.3	>30	-5
IA-P2-041411	↓	3471	5210	1053	9:15	+5'		6L		0.000	>30	-5

Notes:

2 - Regulators were pre-set by laboratory for 24-hr sample

in note: 0.951 - N. Pt.
10.3 - S. Pt

air in room: 0.000
0.000