BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

May 11, 2018

Mr. Anthony L. Lopes, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, NY 14203

Re: Post-Remedial Soil Vapor Intrusion (SVI) Sampling Report
December 28-29, 2017
295 Maryland Street Site (C915242), Buffalo, New York

Dear Mr. Lopes:

Benchmark Environmental Engineering & Science, PLLC (Benchmark) has prepared this letter report to summarize the results of the second round of Soil Vapor Intrusion (SVI) sampling conducted on December 28-29, 2017 at the 295 Maryland Street Site, Buffalo, New York (Site; see Figure 1).

SOIL VAPOR INTRUSION TESTING

In accordance with the Soil Vapor Intrusion Investigation Work Plan approved by the New York State Department of Environmental Conservation in March 2017, sub-slab vapor and indoor air samples were collected in July of 2017 to satisfy Site Management Plan (SMP) requirements for evaluating soil vapor intrusion conditions prior to building occupancy. Based upon the results of the testing the NYSDEC, in consultation with the New York State Department of Health (NYSDOH), recommended an additional round of post-occupancy sampling during the heating season.

Benchmark performed the second round of sampling during the period of December 28-29, 2017. At that time the building was occupied, heating systems were active, and doors and windows were closed as typical for winter weather conditions (high temperatures were well below freezing on both days). Sub-slab; indoor air and outdoor air samples were collected from the following locations (see Figure 2):

- **First Floor-** Collected one (1) sub-slab vapor sample and one (1) indoor air sample from the northeastern side of the first floor (i.e., from the area of the building constructed as slab-on-grade).
- **Basement** - Collected one (1) sub-slab vapor sample and one (1) indoor air sample.
- **Outdoor (outside on first story patio)** – Collected one (1) outdoor air sample.

The air samples were collected using laboratory-provided air collection canisters equipped with pre-set timed regulator to draw vapors into the canisters over a 24-hour period. Following the 24-hour sample collection period, the canisters were delivered under chain of

custody command to Centek Laboratories, located in Syracuse, NY for analysis of volatile organic compounds per USEPA TO-15 methodology.

Prior to collection of the air samples, a chemical product inventory of the first floor and basement was performed. The objective of the product inventory is to identify any potential sources which may influence the air sampling. In general, the chemicals identified were primarily comprised of partially used containers of building finish-related products including: drywall joint compound, paint, PVC cement, drywall primer and sealer, duct and pipe sealant, flooring adhesive, floor primer, painter's caulk, and protective enamel. Typical cleaning products including: bleach and floor polish (see Attachment 1). Two 5-gallon gas cans containing gasoline were observed in the basement on December 29th, 2017. Select photographs from the monitoring event are presented as Attachment 2.

VOC-containing products appeared to be stored in open containers within the basement and first floor of the on-Site building. While these are attributable to completion of indoor finish work within the newly constructed building, it is recommended that products containing VOCs be kept in tightly sealed, original containers and stored in a secure and well-ventilated area such as a garage or outdoor shed.

SAMPLE RESULTS

Table 1 presents the results of the December 28-29, 2017 sampling event. Prior (July 2017) results are included for comparison. A copy of the laboratory analytical report is provided as Attachment 3 to this report. Table 2 provides a comparison of the July and December 2017 analytical results to the New York State Department of Health (NYSDOH) May 2017 Matrices, which are included in Attachment 4 for reference.

As indicated on Table 2, all of the parameters for which the NYSDOH has established action limits as of May 2017 SVI Guidance yielded "no further action" determinations for the December 2017 event.

CONCLUSIONS

Based upon the results of the sampling as summarized herein, the data do not indicate a soil vapor intrusion concern.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Principal Engineer

C: Anthony LoRusso (Client)

FIGURES

FIGURE 1

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

PROJECT NO.: 0222-017-001

DATE: JANUARY 2018

DRAFTED BY: CCB

SITE LOCATION AND VICINITY MAP

SOIL VAPOR INTRUSION INVESTIGATION REPORT

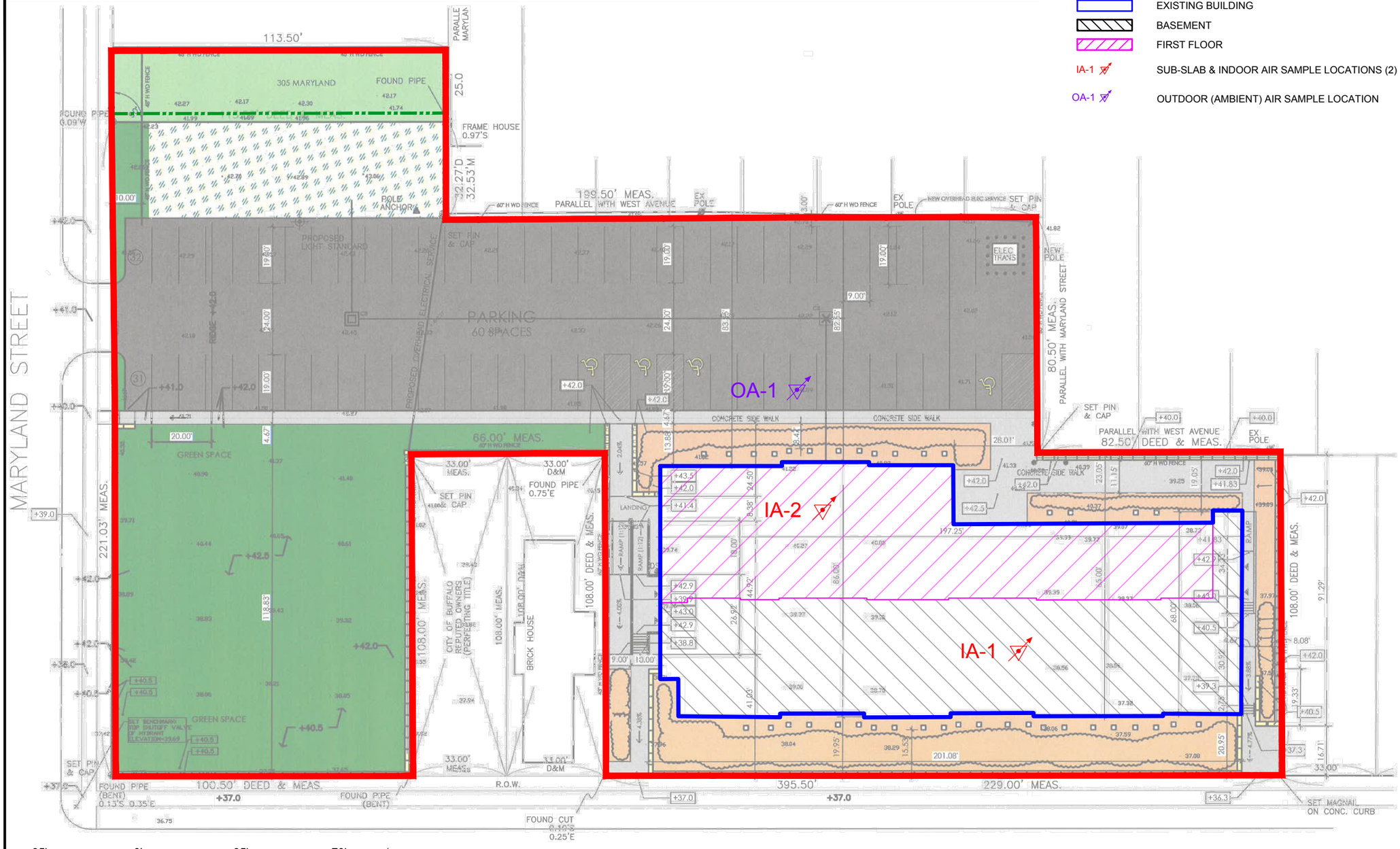
295 MARYLAND STREET SITE
BUFFALO, NEW YORK

PREPARED FOR
295 MARYLAND, LLC

F:\CAD\Benchmark\295 Maryland\SVI Work Plan\Second Round\Figure 2; Site Plan and Proposed SVI Locations.dwg, 1/8/2018 3:00:25 PM, DWG To PDF.pc3

LEGEND:

- REDEVELOPMENT AREA BOUNDARY
- BCP SITE BOUNDARY
- EXISTING BUILDING
- BASEMENT
- FIRST FLOOR
- IA-1 — SUB-SLAB & INDOOR AIR SAMPLE LOCATIONS (2)
- OA-1 — OUTDOOR (AMBIENT) AIR SAMPLE LOCATION



35' 0' 35' 70'

SCALE: 1 INCH = 35 FEET
SCALE IN FEET
(approximate)

DATE: JANAURY 2018
DRAFTED BY: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: B0222-017-001

SITE PLAN & SVI SAMPLING LOCATIONS

SOIL VAPOR INTRUSION INVESTIGATION REPORT
295 MARYLAND STREET SITE
BUFFALO, NEW YORK
PREPARED FOR
295 MARYLAND, LLC

FIGURE 2

TABLES

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1
SUMMARY OF SUB-SLAB VAPOR, INDOOR AIR,
AND OUTDOOR AIR ANALYTICAL DATA

295 MARYLAND STREET SITE
BUFFALO, NEW YORK

Parameter	Sample Location & Sample Date									
	SUB-SLAB-1	SUB-SLAB-1	INDOOR AIR-1	INDOOR AIR-1	SUB-SLAB-2	SUB-SLAB-2	INDOOR AIR-2	INDOOR AIR-2	OUTDOOR AIR-1	OUTDOOR AIR-1
	7/6/2017-7/7/2017	12/28/2017-12/29/2017	7/6/2017-7/7/2017	12/28/2017-12/29/2017	7/6/2017-7/7/2017	12/28/2017-12/29/2017	7/6/2017-7/7/2017	12/28/2017-12/29/2017	7/6/2017-7/7/2017	12/28/2017-12/29/2017
Volatile Organic Compou0s (VOCs, ug/m3)										
1,1,1-Trichloroethane (Matrix B)	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82	ND< 0.82
1,1-Dichloroethene (Matrix A)	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59
1,2,4-Trimethylbenzene	3.4	1.5	3.1	2.2	5.6	2.3	3.3	0.59 J	1.3	ND< 0.74
1,3,5-Trimethylbenzene	1.2	0.69 J	1.0	0.88	2.0	1.2	1.0	ND< 0.74	ND< 0.74	ND< 0.74
2,2,4-trimethylpentane	ND< 0.70	ND< 0.70	8.8	1.9	ND< 0.70	ND< 0.70	0.98	ND< 0.70	ND< 0.70	0.65 J
4-ethyltoluene	1.2	ND< 0.74	ND< 0.74	0.64 J	1.6	ND< 0.74	1.1	ND< 0.74	ND< 0.74	ND< 0.74
Acetone	320	18	870	120	230	16	540	21	52	21
Benzene	2.9	ND< 0.48	1.1	2.6	3.6	1.1	0.99	0.83	0.57	0.96
Bromodichloromethane	ND< 1.0	ND< 1.0	0.67 J	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0	ND< 1.0
Carbon Disulfide	2.3	ND< 0.47	0.78	ND< 0.47	3.3	ND< 0.47	0.53	ND< 0.47	ND< 0.47	6.2
Carbon Tetrachloride (Matrix A)	ND< 0.94	ND< 0.94	0.50	0.69	ND< 0.94	ND< 0.94	0.50	0.57	0.57	0.57
Chloroform	0.73	0.73	4.6	0.93	0.78	0.68 J	1.8	ND< 0.73	ND< 0.73	ND< 0.73
Chloromethane	7.6	1.1	1.7	1.1	7.1	1.7	1.6	0.93	1.5	1.1
cis-1,2-Dichlorethene (Matrix A)	1.1	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59	ND< 0.59
Cyclohexane	170	24	4.4	2.8	200	14	2.7	0.76	0.69	0.72
Ethyl acetate	ND< 0.54	2.7	7.0	2.2	ND< 0.54	2.9	4.6	ND< 0.54	1.2	ND< 0.54
Ethylbenzene	3.0	ND< 0.65	2.2	1.6	1.3	ND< 0.65	2.7	0.48 J	1.4	0.74
Freon 11	1.6	1.5	1.3	1.7	2.2	1.3	1.7	1.2	1.6	1.5
Freon 113	ND< 1.1	0.84 J	ND< 1.1	0.84 J	ND< 1.1	0.77 J	ND< 1.1	ND< 1.1	ND< 1.1	0.84 J
Freon 12	2.2	2.8	2.7	2.7	3.1	2.8	3.0	2.3	2.9	2.9
Heptane	92	15	8.8	6.9	130	8.2	5.0	0.94	0.41 J	4.4
Hexane	150	31	11	7.4	200	17	4.1	1.1	1.1	0.81
Isopropyl alcohol	14	ND< 0.37	29	ND< 0.37	13	ND< 0.37	50	ND< 0.37	2.9	ND< 0.37
m&p-Xylene	6.6	0.87 J	6.9	5.3	9.2	0.87 J	9.4	1.1 J	5.5	2.5
Methyl Butyl Ketone	ND< 1.2	ND< 1.2	ND< 1.2	ND< 1.2	ND< 1.2	ND< 1.2	3.8	ND< 1.2	0.82 J	ND< 1.2
Methyl Ethyl Ketone	12	4.4	32	47	13	3.6	90	3.7	3.4	3.7
Methly Isobutyl Ketone	ND< 1.2	ND< 1.2	3.9	1.1 J	ND< 1.2	ND< 1.2	8.3	ND< 1.2	0.57	ND< 1.2
Methylene chloride (Matrix B)	38	16	5.4	1.5	36	18	13	1.5	3.8	4.4
o-Xylene	2.4	ND< 0.65	2.9	1.9	3.2	0.48 J	3.5	0.56 J	2.0	0.74
Styrene	1.7	ND< 0.64	6.0	1.7	2.3	ND< 0.64	5.2	0.89	ND< 0.64	ND< 0.64
Tetrachloroethene (Matrix B)	3.0	0.88 J	26	3.3	2.7	ND< 1.0	63	0.88 J	4.5	ND< 1.0
Tetrahydrofuran	35	ND< 0.44	470	38	5.6	ND< 0.44	90	1.8	1.2	0.56
Toluene	72	3.1	33	14	110	3.0	23	1.8	4.7	130
Total Xylenes	9.0	1.52 J	9.8	7.2	12.4	1.35 J	12.9 J	1.66 J	7.5	2.5
Trichloroethene (Matrix A)	2.3	ND< 0.81	ND< 0.81	0.27	2.8	0.54 J	0.54	ND< 0.16	0.43	0.54
Vinyl acetate	ND< 0.53	ND< 0.53	ND< 0.53	ND< 0.53	ND< 0.53	ND< 0.53	24	ND< 0.53	ND< 0.53	ND< 0.53
Vinyl chloride (Matrix C)	ND< 0.38	ND< 0.38	ND< 0.10	ND< 0.10	ND< 0.38	ND< 0.38	ND< 0.10	ND< 0.10	ND< 0.10	ND< 0.10

Notes:

1) USEPA Regional screening levels (RSL) Resident Ambient Air Table (TR=1E-6, HQ=1.0) June 2017
2) USEPA Regional screening levels (RSL) Resident Ambient Air Table (TR=1E-6, HQ=0.1) June 2017
   TR = target risk for carcinogenic compounds per USEPA CERCLA Risk Assessment Guidance
   HQ = hazard quotient per USEPA CERCLA Risk Assessment Guidance

1. ND - Not Detected
2. Only those compounds detected at a minimum of one location are presented.
3. Matrix A, B and C refers to NYSDOH Soil Vapor / Indoor Air Matrices dated May 2017.

Qualifiers:

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

ND = Not detected

Color Code:

blue = one of eight compounds regulated by the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2017)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 2
COMPARISON OF SUB-SLAB VAPOR, INDOOR AIR, AND OUTDOOR AIR ANALYTICAL DATA TO NYSDOH DECISION MATRICES

295 MARYLAND STREET SITE
BUFFALO, NEW YORK

Sample Location	Carbon Tetrachloride		Trichloroethene (TCE)		cis-1,2-Dichloroethene		1,1-Dichloroethene		Tetrachloroethene (PCE)		1,1,1 -Trichloroethane		Methylene Chloride		Vinyl Chloride	
	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m^3)	Soil Vapor / Indoor Air Matrix C
Round 1 (July 2017)																
SUB-SLAB-1	ND< 0.94	NFA	2.3	NFA	1.1	NFA	ND< 0.59	NFA	3.0	I,R	ND< 0.82	NFA	38	NFA	ND	NFA
INDOOR AIR-1	0.50		ND< 0.81		ND< 0.59		ND< 0.59		26		ND< 0.82		5.4		ND< 0.10	
SUB-SLAB-2	ND< 0.94		2.8		ND< 0.59		ND< 0.59		2.7		ND< 0.82		36	I,R	ND	
INDOOR AIR-2	0.50		0.54		ND< 0.59		ND< 0.59		63		ND< 0.82		13		ND< 0.10	
OUTDOOR AIR-1	0.57		0.43		ND< 0.59		ND< 0.59		4.5		ND< 0.82		3.8		ND< 0.10	
Round 2 (December 2017)																
SUB-SLAB-1	ND< 0.94	NFA	ND< 0.81	NFA	ND< 0.59	NFA	ND< 0.59	NFA	0.88 J	NFA	ND< 0.82	NFA	16	NFA	ND	NFA
INDOOR AIR-1	0.69		0.27		ND< 0.59		ND< 0.59		3.3		ND< 0.82		1.5		ND< 0.10	
SUB-SLAB-2	ND< 0.94		0.54 J		ND< 0.59		ND< 0.59		ND< 1.0		ND< 0.82		18		ND	
INDOOR AIR-2	0.57		ND< 0.16		ND< 0.59		ND< 0.59		0.88 J		ND< 0.82		1.5		ND< 0.10	
OUTDOOR AIR-1	0.57		0.54		ND< 0.59		ND< 0.59		ND< 1.0		ND< 0.82		4.4		ND< 0.10	

Notes:

1. Concentration in micrograms per cubic meter (ug/m^3)

Definitions:

ND = Not Detected
J = Results areestimated; results are below the reporting limit, but greater than or equal to the method detection limit.
NFA = No further action.
I, R = Take reasonable and practical actions to identify source(s) and reduce exposures and resample or mitigate.
Monitor = Monitor soil vapor / indoor air
Mitigate = Mitigate source of identified parameter.

Analytes Assigned:
Trichloroethene (TCE), cis-1,2-Dichloroethene (c12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)		
	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

Analytes Assigned:
Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)		
	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

Analytes Assigned:
Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)	
	< 0.2	0.2 and above
< 6	1. No further action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE

ATTACHMENT 1

Chemical Inventory

BENCHMARK

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

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

Location	Product Description	Size (units)	Condition [1]	Chemical Ingredients	Field Instrument Reading (units)	Photo (Y/N)
Mechanical Room	Insulating Foam Sealant	12 oz	U			Y
	Fire extinguisher		UO			Y
	Animal Repellent	32 oz	U	inert ingredients		Y
	Spray Adhesive	16 oz	U			Y
Basement	Wood glue (Elmers)	8 oz	U			Y
	Pipe joint lubricant	2 lbs	U			Y
	Quad Foam	16 oz	U			Y
	PVC Solvent Cement	1 qt	U	1 unit VOC		Y
	Cleaner + Degreaser	32 oz	U			Y
	Marking paint	17 oz	U			Y
	Duct Sealant	1 gal	U			Y
	Acrylic Latex Caulk	10.1 oz	U			Y
	Fire Barrier Sealant	10.1 oz	U			Y
	paint (x2)	12 oz	U			Y
	Multi Surface acrylic	62 oz	U			Y
	Primer/ sealer (12)	492 gal	U			Y
	Plaster (4)	49.5 lbs	U			Y
	Concrete mix (1)	60 lbs	U			Y
	Neutral Floor cleaner	128 oz	U	x2		Y
	High traffic floor finish	Concentrate gallon 5 gal	U			Y
	germicidal bleach	121 oz	U			Y
	wood glue	1 gal	U			Y

Notes:

1. Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D).**
2. 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.

ATTACHMENT 2

Photo Log

BENCHMARK

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
1	12/28/17

Direction Photo Taken:
West

Description:
Sub-slab air sample port and air sampling canister. First floor mechanical room.

Photo No.	Date
2	12/28/17

Direction Photo Taken:
South

Description:
Sub-slab and indoor air sample location- Basement.

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
3	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
4	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
5	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
6	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
7	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
8	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

 Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
9	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
10	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
11	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
12	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
13	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
14	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
15	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Photo No.	Date
16	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - Basement

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
17	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - First Floor

Photo No.	Date
18	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - First Floor

Prepared By: CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
295 Maryland, LLC	295 Maryland Street Site	0222-017-001

Photo No.	Date
19	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - First Floor

Photo No.	Date
20	12/29/17

Direction Photo Taken:

Description:
Chemical Inventory - First Floor

 Prepared By: CCB

ATTACHMENT 3

Laboratory Report

BENCHMARK

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-1 Subslab
Lab Order:	C1801014	**Tag Number:**	164.446
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 8:55:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/3/2018 8:55:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 8:55:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 8:55:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:55:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/3/2018 8:55:00 PM
1,2,4-Trimethylbenzene	1.5	0.74		ug/m3	1	1/3/2018 8:55:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/3/2018 8:55:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:55:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 8:55:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/3/2018 8:55:00 PM
1,3,5-Trimethylbenzene	0.69	0.74	J	ug/m3	1	1/3/2018 8:55:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/3/2018 8:55:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:55:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:55:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/3/2018 8:55:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/3/2018 8:55:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/3/2018 8:55:00 PM
Acetone	18	7.1		ug/m3	10	1/4/2018 1:56:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/3/2018 8:55:00 PM
Benzene	< 0.48	0.48		ug/m3	1	1/3/2018 8:55:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/3/2018 8:55:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/3/2018 8:55:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/3/2018 8:55:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/3/2018 8:55:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/3/2018 8:55:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	1/3/2018 8:55:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/3/2018 8:55:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/3/2018 8:55:00 PM
Chloroform	0.73	0.73		ug/m3	1	1/3/2018 8:55:00 PM
Chloromethane	1.1	0.31		ug/m3	1	1/3/2018 8:55:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:55:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 8:55:00 PM
Cyclohexane	24	5.2		ug/m3	10	1/4/2018 1:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/3/2018 8:55:00 PM
Ethyl acetate	2.7	0.54		ug/m3	1	1/3/2018 8:55:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/3/2018 8:55:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/3/2018 8:55:00 PM
Freon 113	0.84	1.1	J	ug/m3	1	1/3/2018 8:55:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/3/2018 8:55:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-1 Subslab
Lab Order:	C1801014	**Tag Number:**	164.446
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.74		ug/m3	1	1/3/2018 8:55:00 PM
Heptane	15	6.1		ug/m3	10	1/4/2018 1:56:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/3/2018 8:55:00 PM
Hexane	31	5.3		ug/m3	10	1/4/2018 1:56:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/3/2018 8:55:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	1/3/2018 8:55:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 8:55:00 PM
Methyl Ethyl Ketone	4.4	0.88		ug/m3	1	1/3/2018 8:55:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 8:55:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/3/2018 8:55:00 PM
Methylene chloride	16	5.2		ug/m3	10	1/4/2018 1:56:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	1/3/2018 8:55:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/3/2018 8:55:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/3/2018 8:55:00 PM
Tetrachloroethylene	0.88	1.0	J	ug/m3	1	1/3/2018 8:55:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	1/3/2018 8:55:00 PM
Toluene	3.1	0.57		ug/m3	1	1/3/2018 8:55:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:55:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 8:55:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	1/3/2018 8:55:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/3/2018 8:55:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/3/2018 8:55:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	1/3/2018 8:55:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-1
Lab Order:	C1801014	**Tag Number:**	1175.372
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/3/2018 6:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 6:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 6:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 6:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/3/2018 6:50:00 PM
1,2,4-Trimethylbenzene	2.2	0.74		ug/m3	1	1/3/2018 6:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/3/2018 6:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 6:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 6:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/3/2018 6:50:00 PM
1,3,5-Trimethylbenzene	0.88	0.74		ug/m3	1	1/3/2018 6:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/3/2018 6:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 6:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 6:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/3/2018 6:50:00 PM
2,2,4-trimethylpentane	1.9	0.70		ug/m3	1	1/3/2018 6:50:00 PM
4-ethyltoluene	0.64	0.74	J	ug/m3	1	1/3/2018 6:50:00 PM
Acetone	120	14		ug/m3	20	1/3/2018 10:53:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/3/2018 6:50:00 PM
Benzene	2.6	0.48		ug/m3	1	1/3/2018 6:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/3/2018 6:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/3/2018 6:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/3/2018 6:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/3/2018 6:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/3/2018 6:50:00 PM
Carbon tetrachloride	0.69	0.25		ug/m3	1	1/3/2018 6:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/3/2018 6:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/3/2018 6:50:00 PM
Chloroform	0.93	0.73		ug/m3	1	1/3/2018 6:50:00 PM
Chloromethane	1.1	0.31		ug/m3	1	1/3/2018 6:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 6:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 6:50:00 PM
Cyclohexane	2.8	0.52		ug/m3	1	1/3/2018 6:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/3/2018 6:50:00 PM
Ethyl acetate	2.2	0.54		ug/m3	1	1/3/2018 6:50:00 PM
Ethylbenzene	1.6	0.65		ug/m3	1	1/3/2018 6:50:00 PM
Freon 11	1.7	0.84		ug/m3	1	1/3/2018 6:50:00 PM
Freon 113	0.84	1.1	J	ug/m3	1	1/3/2018 6:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/3/2018 6:50:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-1
Lab Order:	C1801014	**Tag Number:**	1175.372
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	2.7	0.74		ug/m3	1	1/3/2018 6:50:00 PM
Heptane	6.9	0.61		ug/m3	1	1/3/2018 6:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/3/2018 6:50:00 PM
Hexane	7.4	0.53		ug/m3	1	1/3/2018 6:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/3/2018 6:50:00 PM
m&p-Xylene	5.3	1.3		ug/m3	1	1/3/2018 6:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 6:50:00 PM
Methyl Ethyl Ketone	47	18		ug/m3	20	1/3/2018 10:53:00 PM
Methyl Isobutyl Ketone	1.1	1.2	J	ug/m3	1	1/3/2018 6:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/3/2018 6:50:00 PM
Methylene chloride	1.5	0.52		ug/m3	1	1/3/2018 6:50:00 PM
o-Xylene	1.9	0.65		ug/m3	1	1/3/2018 6:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/3/2018 6:50:00 PM
Styrene	1.7	0.64		ug/m3	1	1/3/2018 6:50:00 PM
Tetrachloroethylene	3.3	1.0		ug/m3	1	1/3/2018 6:50:00 PM
Tetrahydrofuran	38	8.8		ug/m3	20	1/3/2018 10:53:00 PM
Toluene	14	11		ug/m3	20	1/3/2018 10:53:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 6:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 6:50:00 PM
Trichloroethene	0.27	0.16		ug/m3	1	1/3/2018 6:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/3/2018 6:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/3/2018 6:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/3/2018 6:50:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-2 Subslab
Lab Order:	C1801014	**Tag Number:**	193.392
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 9:37:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/3/2018 9:37:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 9:37:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 9:37:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 9:37:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/3/2018 9:37:00 PM
1,2,4-Trimethylbenzene	2.3	0.74		ug/m3	1	1/3/2018 9:37:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/3/2018 9:37:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 9:37:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 9:37:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/3/2018 9:37:00 PM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	1/3/2018 9:37:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/3/2018 9:37:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 9:37:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 9:37:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/3/2018 9:37:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/3/2018 9:37:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/3/2018 9:37:00 PM
Acetone	16	7.1		ug/m3	10	1/4/2018 2:33:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/3/2018 9:37:00 PM
Benzene	1.1	0.48		ug/m3	1	1/3/2018 9:37:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/3/2018 9:37:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/3/2018 9:37:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/3/2018 9:37:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/3/2018 9:37:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/3/2018 9:37:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	1/3/2018 9:37:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/3/2018 9:37:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/3/2018 9:37:00 PM
Chloroform	0.68	0.73	J	ug/m3	1	1/3/2018 9:37:00 PM
Chloromethane	1.7	0.31		ug/m3	1	1/3/2018 9:37:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 9:37:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 9:37:00 PM
Cyclohexane	14	5.2		ug/m3	10	1/4/2018 2:33:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/3/2018 9:37:00 PM
Ethyl acetate	2.9	0.54		ug/m3	1	1/3/2018 9:37:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	1/3/2018 9:37:00 PM
Freon 11	1.3	0.84		ug/m3	1	1/3/2018 9:37:00 PM
Freon 113	0.77	1.1	J	ug/m3	1	1/3/2018 9:37:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/3/2018 9:37:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-2 Subslab
Lab Order:	C1801014	**Tag Number:**	193.392
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.74		ug/m3	1	1/3/2018 9:37:00 PM
Heptane	8.2	6.1		ug/m3	10	1/4/2018 2:33:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/3/2018 9:37:00 PM
Hexane	17	5.3		ug/m3	10	1/4/2018 2:33:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/3/2018 9:37:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	1/3/2018 9:37:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 9:37:00 PM
Methyl Ethyl Ketone	3.6	0.88		ug/m3	1	1/3/2018 9:37:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 9:37:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/3/2018 9:37:00 PM
Methylene chloride	18	5.2		ug/m3	10	1/4/2018 2:33:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	1/3/2018 9:37:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/3/2018 9:37:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/3/2018 9:37:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/3/2018 9:37:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	1/3/2018 9:37:00 PM
Toluene	3.0	0.57		ug/m3	1	1/3/2018 9:37:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 9:37:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 9:37:00 PM
Trichloroethene	0.54	0.81	J	ug/m3	1	1/3/2018 9:37:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/3/2018 9:37:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/3/2018 9:37:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	1/3/2018 9:37:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-2
Lab Order:	C1801014	**Tag Number:**	1195.395
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 7:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/3/2018 7:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 7:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 7:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 7:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/3/2018 7:33:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	1/3/2018 7:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/3/2018 7:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 7:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 7:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/3/2018 7:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/3/2018 7:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/3/2018 7:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 7:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 7:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/3/2018 7:33:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	1/3/2018 7:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/3/2018 7:33:00 PM
Acetone	21	7.1		ug/m3	10	1/4/2018 12:06:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/3/2018 7:33:00 PM
Benzene	0.83	0.48		ug/m3	1	1/3/2018 7:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/3/2018 7:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/3/2018 7:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/3/2018 7:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/3/2018 7:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/3/2018 7:33:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	1/3/2018 7:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/3/2018 7:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/3/2018 7:33:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/3/2018 7:33:00 PM
Chloromethane	0.93	0.31		ug/m3	1	1/3/2018 7:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 7:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 7:33:00 PM
Cyclohexane	0.76	0.52		ug/m3	1	1/3/2018 7:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/3/2018 7:33:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	1/3/2018 7:33:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	1/3/2018 7:33:00 PM
Freon 11	1.2	0.84		ug/m3	1	1/3/2018 7:33:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	1/3/2018 7:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/3/2018 7:33:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	IA-2
Lab Order:	C1801014	**Tag Number:**	1195.395
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.74		ug/m3	1	1/3/2018 7:33:00 PM
Heptane	0.94	0.61		ug/m3	1	1/3/2018 7:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/3/2018 7:33:00 PM
Hexane	1.1	0.53		ug/m3	1	1/3/2018 7:33:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/3/2018 7:33:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	1/3/2018 7:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 7:33:00 PM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	1/3/2018 7:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 7:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/3/2018 7:33:00 PM
Methylene chloride	1.5	0.52		ug/m3	1	1/3/2018 7:33:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	1/3/2018 7:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/3/2018 7:33:00 PM
Styrene	0.89	0.64		ug/m3	1	1/3/2018 7:33:00 PM
Tetrachloroethylene	0.88	1.0	J	ug/m3	1	1/3/2018 7:33:00 PM
Tetrahydrofuran	1.8	0.44		ug/m3	1	1/3/2018 7:33:00 PM
Toluene	1.8	0.57		ug/m3	1	1/3/2018 7:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 7:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 7:33:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	1/3/2018 7:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/3/2018 7:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/3/2018 7:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/3/2018 7:33:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	OA-1
Lab Order:	C1801014	**Tag Number:**	363.456
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 8:15:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/3/2018 8:15:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	1/3/2018 8:15:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 8:15:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:15:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/3/2018 8:15:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/3/2018 8:15:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/3/2018 8:15:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:15:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	1/3/2018 8:15:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	1/3/2018 8:15:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	1/3/2018 8:15:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	1/3/2018 8:15:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:15:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	1/3/2018 8:15:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/3/2018 8:15:00 PM
2,2,4-trimethylpentane	0.65	0.70	J	ug/m3	1	1/3/2018 8:15:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	1/3/2018 8:15:00 PM
Acetone	21	7.1		ug/m3	10	1/4/2018 12:43:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	1/3/2018 8:15:00 PM
Benzene	0.96	0.48		ug/m3	1	1/3/2018 8:15:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	1/3/2018 8:15:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/3/2018 8:15:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/3/2018 8:15:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	1/3/2018 8:15:00 PM
Carbon disulfide	6.2	4.7		ug/m3	10	1/4/2018 12:43:00 AM
Carbon tetrachloride	0.57	0.25		ug/m3	1	1/3/2018 8:15:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	1/3/2018 8:15:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/3/2018 8:15:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	1/3/2018 8:15:00 PM
Chloromethane	1.1	0.31		ug/m3	1	1/3/2018 8:15:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:15:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 8:15:00 PM
Cyclohexane	0.72	0.52		ug/m3	1	1/3/2018 8:15:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/3/2018 8:15:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	1/3/2018 8:15:00 PM
Ethylbenzene	0.74	0.65		ug/m3	1	1/3/2018 8:15:00 PM
Freon 11	1.5	0.84		ug/m3	1	1/3/2018 8:15:00 PM
Freon 113	0.84	1.1	J	ug/m3	1	1/3/2018 8:15:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	1/3/2018 8:15:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
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S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *10-Jan-18*

CLIENT:	Benchmark Environmental Engineering & S	**Client Sample ID:**	OA-1
Lab Order:	C1801014	**Tag Number:**	363.456
Project:	295 Maryland Street Site	**Collection Date:**	12/28/2018
Lab ID:	C1801014-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	2.9	0.74		ug/m3	1	1/3/2018 8:15:00 PM
Heptane	4.4	0.61		ug/m3	1	1/3/2018 8:15:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/3/2018 8:15:00 PM
Hexane	0.81	0.53		ug/m3	1	1/3/2018 8:15:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/3/2018 8:15:00 PM
m&p-Xylene	2.5	1.3		ug/m3	1	1/3/2018 8:15:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 8:15:00 PM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	1/3/2018 8:15:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/3/2018 8:15:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	1/3/2018 8:15:00 PM
Methylene chloride	4.4	0.52		ug/m3	1	1/3/2018 8:15:00 PM
o-Xylene	0.74	0.65		ug/m3	1	1/3/2018 8:15:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/3/2018 8:15:00 PM
Styrene	< 0.64	0.64		ug/m3	1	1/3/2018 8:15:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/3/2018 8:15:00 PM
Tetrahydrofuran	0.56	0.44		ug/m3	1	1/3/2018 8:15:00 PM
Toluene	130	53		ug/m3	90	1/4/2018 9:41:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	1/3/2018 8:15:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	1/3/2018 8:15:00 PM
Trichloroethene	0.54	0.16		ug/m3	1	1/3/2018 8:15:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	1/3/2018 8:15:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	1/3/2018 8:15:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	1/3/2018 8:15:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Labs - Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: 295 Maryland Street Site
Project: Second Round of Indoor Air
PO#: B0232-017-002
Quote # Q-
Canister Order #: 51544

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 +TCE .25	☐ Cat "B" Like

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☐	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

Company: Benchmark Environmental Eng
Report to:
Address: 2558 Hamburg Turnpike
City, State, Zip Buffalo NY 14218
Email: TForbes@benchmarktunkey.com
Phone: 716-856-0599

Company: Check Here If Same: ☒
Invoice to:
Address:
City, State, Zip
Email:
Phone:

*For Same and Next Day TAT Please Notify Lab

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** Recv/Analysis	Comments
IA-1 SUBSLAB	12/28/17 - 12/29/17	164	446	TO-15 VOC	-30+ / -7	-7 /	
IA-1	12/28/17 - 12/29/17	1175	372	CT-TCE-VC	-30+ / -4.5	-5 /	
IA-2 SUBSLAB	12/28/17 - 12/29/17	193	392	TO-15 VOC	-30+ / -8.5	-9 /	
IA-2	12/28/17 - 12/29/17	1195	395	CT-TCE-VC	-30+ / -13.5	-13 /	
OA-1	12/28/17 - 12/29/17	363	~~446~~ 456	CT-TCE-VC	-30+ / -9	-9 /	
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	Print Name	Signature	Date/Time	
Chain of Custody Sampled by:	Caroline Bukowski		12/29/17 9:58	Courier: CIRCLE ONE FedEx UPS Pickup/Dropoff
Relinquished by:				**For LAB USE ONLY
Received at Lab by:	Nick MacDonald		1-3-18	Work Order # C1801014

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

ATTACHMENT 4

DOH Matrices

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ENGINEERING &
SCIENCE, PLLC

ATTACHMENT 4

SOIL VAPOR / INDOOR AIR MATRIX A

Carbon Tetrachloride, Trichloroethene (TCE),
cis-1,2-Dichloroethene (cis-1,2-DCE), & 1,1-Dichloroethene (1,1-DCE)
(October 2006/June 2007/May 2017)

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	**INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)**		
	< 0.2	**0.2 to < 1**	**1.0 and above**
< 6	1. No further action (NFA)	2. No further action (NFA)	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action (NFA)	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

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ATTACHMENT 4 (cont.)

SOIL VAPOR / INDOOR AIR MATRIX B

Tetrachloroethene (PCE), 1,1,1,-Trichloroethane (1,1,1-TCA), & Methylene Chloride (MC)
(October 2006/June 2007/May 2017)

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	**INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)**		
	< 3	**3 to < 10**	**10 and above**
< 100	1. No further action (NFA)	2. No further action (NFA)	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action (NFA)	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

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ENGINEERING &
SCIENCE, PLLC

ATTACHMENT 4 (cont.)

SOIL VAPOR / INDOOR AIR MATRIX C

Vinyl Chloride (VC)
(October 2006/June 2007/May 2017)

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m^3)	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m^3)	
	< 0.2	0.2 and above
< 6	1. No further action (NFA)	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE