day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

June 11, 2019

Mr. Damianos T. Skaros, P.E.
Division of Environmental Remediation, Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

RE: NYSDEC Spill File No. 1812634
415 Chandler Street
Jamestown, New York

Dear Mr. Skaros:

This document, prepared by Day Environmental, Inc. (DAY) on behalf of Weber-Knapp Company, summarizes information collected to date during the implementation of the studies completed at the property at 415 Chandler Street, Jamestown, New York (Site). The scope of the most-recent studies is described in an investigation work plan prepared by DAY titled *Investigation Work Plan, 415 Chandler Street, Jamestown, New York* dated March 25, 2019. This work was done to assess the nature and extent of chlorinated volatile organic compound (VOC) impact identified during previous studies in order to close NYSDEC Spill No. 1812634, which was opened on March 25, 2019.

The attached information includes the results of a soil vapor intrusion (SVI) assessment and the initial round of subsurface delineation that included the advancement of test borings, installation of groundwater monitoring points, sample collection/testing and completion of an elevation survey.

The SVI assessment was conducted within the building at the Site, and it included completion of a chemical inventory within the building on March 29, 2019, and collection of five sub-slab soil vapor samples and five indoor air samples from below/within the building, and one background air sample from an exterior location near the building on April 4, 2019. The approximate locations from which the sub-slab soil vapor samples, indoor air samples, and background air sample were collected are depicted on Figure 1. A summary of the compounds detected in the soil vapor/air samples collected on April 4, 2019 is provided as Table 1, and the results of select VOCs (i.e., trichloroethene, cis-1,2-dichloroethene and vinyl chloride) are also presented on Figure 1. The location and results of a sub-slab vapor sample collected during a previous study on September 5, 2018 (i.e., designated SSV-6) is also depicted on Figure 1 and presented in Table 1. [Note: the results of the chemical inventory are not included with this transmittal, but are available upon request.]

Between April 29 and 30, 2019, twelve direct push test borings (designated DTB-101 through DTB-112) were advanced on the southern portion of the Site (i.e., in the vicinity of monitoring well MW-R, the location where elevated concentrations of chlorinated VOCs were detected during a previous study), and nine of the test borings (DTB-101 though DTB-104 and DTB-106 through DTB-110) were converted into groundwater monitoring points. Based on the results of field screening using a parts per billion (ppb)-range PID, five soil samples [i.e., DTB-102 (7-8'), DTB-102 (8-9'), DTB-103 (0-1'), DTB-104 (8-9') and DTB-111 (8-9')] were retained for subsequent testing of VOCs by an analytical laboratory. A summary of the compounds detected in these soil samples is presented as Table 2, and the results of select VOCs detected in the soil samples tested are also depicted on Figure 2. The approximate locations of the test

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borings/groundwater monitoring points advanced/constructed between April 29 and 30, 2019 are depicted on Figure 2 and Figure 3. Test boring logs, describing the subsurface conditions observed in the test borings advanced between April 29 and 30, 2019 and identifying the screened intervals of the groundwater monitoring points installed, are included as Attachment A.

On May 1, 2019, each of the nine groundwater monitoring points was developed and subsequently sampled using a peristaltic pump. The approximate depths of the pump intakes during sampling are indicated on the logs provided in Attachment A. The groundwater samples (along with the groundwater samples described above) were transported under chain-of-custody control to ALS laboratory in Rochester, New York and tested for VOCs. A summary of the compounds detected in the groundwater samples collected on May 1, 2019 is presented as Table 3, and the results of select VOCs are also depicted on Figure 3. [Note: the results of groundwater samples collected from monitoring wells installed for an environmental evaluation in December 2018, and a confirmatory sampling event that occurred on February 21, 2019 are also included in Table 3 and depicted on Figure 3.]

On May 31, 2019, DAY measured ground surface and top of monitoring point elevations (i.e., referenced to an arbitrary site datum) for the test borings/monitoring points installed at the Site using a Topcon RL-H4C construction laser. Based on groundwater elevations calculated using static water level measurements made on May 31, 2019, DAY prepared the potentiometric groundwater contour map included as Figure 4.

DAY will contact you in several days to review the results of the studies described herein and to discuss additional steps necessary to close Spill File No. 1812634. In the interim, please contact the undersigned if you have questions.

Very truly,
Day Environmental, Inc.

Charles A. Hampton
Project Manager

Raymond L. Kampff
Principal

Attachments:

Figure 1 – Site Plan with Select Soil Vapor Intrusion Test Results
Figure 2 – Test Location Plan with Select VOC Results in Soil
Figure 3 – Test Location Plan Depicting Select Groundwater Test Result
Figure 4 – Potentiometric Groundwater Contour Map Measured May 31, 2019

Table 1 – Summary of Detected Volatile Organic Compounds - Indoor Air and Sub-Slab Soil Vapor Samples
Table 2 – Summary of Detected Volatile Organic Compounds – Soil Samples
Table 3 – Summary of Detected Volatile Organic Compounds – Groundwater Samples

Attachment A – Test Boring Logs – DTB-101 through DTB-112

FIGURES

PRELIMINARY

SSV-4 4/4/2019
Trichloroethylene: 19 ug/m3
Cis-1,2-Dichloroethylene: ND (0.11 ug/m3)
Vinyl chloride: ND (0.08 ug/m3)

IA-4 4/4/2019
Trichloroethylene: 0.44 ug/m3
Cis-1,2-Dichloroethylene: ND (0.1 ug/m3)
Vinyl chloride: ND (0.079 ug/m3)

Background 20190404 4/4/2019
Trichloroethylene: 0.22 ug/m3
Cis-1,2-Dichloroethylene: ND (0.098 ug/m3)
Vinyl chloride: ND (0.074 ug/m3)

SSV-1 4/4/2019
Trichloroethylene: 7.5 ug/m3
Cis-1,2-Dichloroethylene: 3 ug/m3
Vinyl chloride: ND (0.082 ug/m3)

IA-1 4/4/2019
Trichloroethylene: ND (0.11 ug/m3)
Cis-1,2-Dichloroethylene: ND (0.12 ug/m3)
Vinyl chloride: ND (0.088 ug/m3)

SSV-5 4/4/2019
Trichloroethylene: 680 ug/m3 D
Cis-1,2-Dichloroethylene: 0.4 ug/m3
Vinyl chloride: ND (0.074 ug/m3)

IA-5 4/4/2019
Trichloroethylene: ND (0.11 ug/m3)
Cis-1,2-Dichloroethylene: ND (0.11 ug/m3)
Vinyl chloride: ND (0.085 ug/m3)

SSV-3 4/4/2019
Trichloroethylene: 5.5 ug/m3
Cis-1,2-Dichloroethylene: ND (0.12 ug/m3)
Vinyl chloride: ND (0.089 ug/m3)

IA-3 4/4/2019
Trichloroethylene: 0.18 ug/m3
Cis-1,2-Dichloroethylene: ND (0.094 ug/m3)
Vinyl chloride: ND (0.071 ug/m3)

SSV-6 9/5/2018
Trichloroethylene: 320 ug/m3
Cis-1,2-Dichloroethylene: 2.0 ug/m3
Vinyl chloride: ND (0.099 ug/m3)

SSV-2 4/4/2019
Trichloroethylene: 19 ug/m3
Cis-1,2-Dichloroethylene: 0.26 ug/m3
Vinyl chloride: ND (0.084 ug/m3)

IA-2 4/4/2019
Trichloroethylene: ND (0.098 ug/m3)
Cis-1,2-Dichloroethylene: ND (0.1 ug/m3)
Vinyl chloride: ND (0.078 ug/m3)

Legend

- Paired sub-slab vapor and indoor air sample location
- September 2018 sub-slab vapor sample location
- Parcel Boundary
- Extent of WWTP (foundation depth ~20.5' BFF)
- Extent of tunnel system (foundation depth ~10' BFF)

N

NOTES:

ND = Not Detected. (Detection limitis in parenthesis)

D = Result following sample dilution

Red Font - Concentration exceeds the 'mitigate' value (i.e., due to a concentration of TCE in the sub-slab vapor sample that exceeds 60 ug/m3) referenced in NYSDOH Soil Vapor/Indoor Air Matrix A dated May 2017

The locations of indoor air, background and sub-slab vapor samples were tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

0 20 40 80 Feet

PROJECT MANAGER	DRAWN BY	SCALE	DATE
CAH	CAH/CPS	AS NOTED	DATE DRAWN 05-2019
			DATE ISSUED 05-28-2019

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
415 CHANDLER STREET
JAMESTOWN, NEW YORK
NYSDEC SPILL NO. 1812634

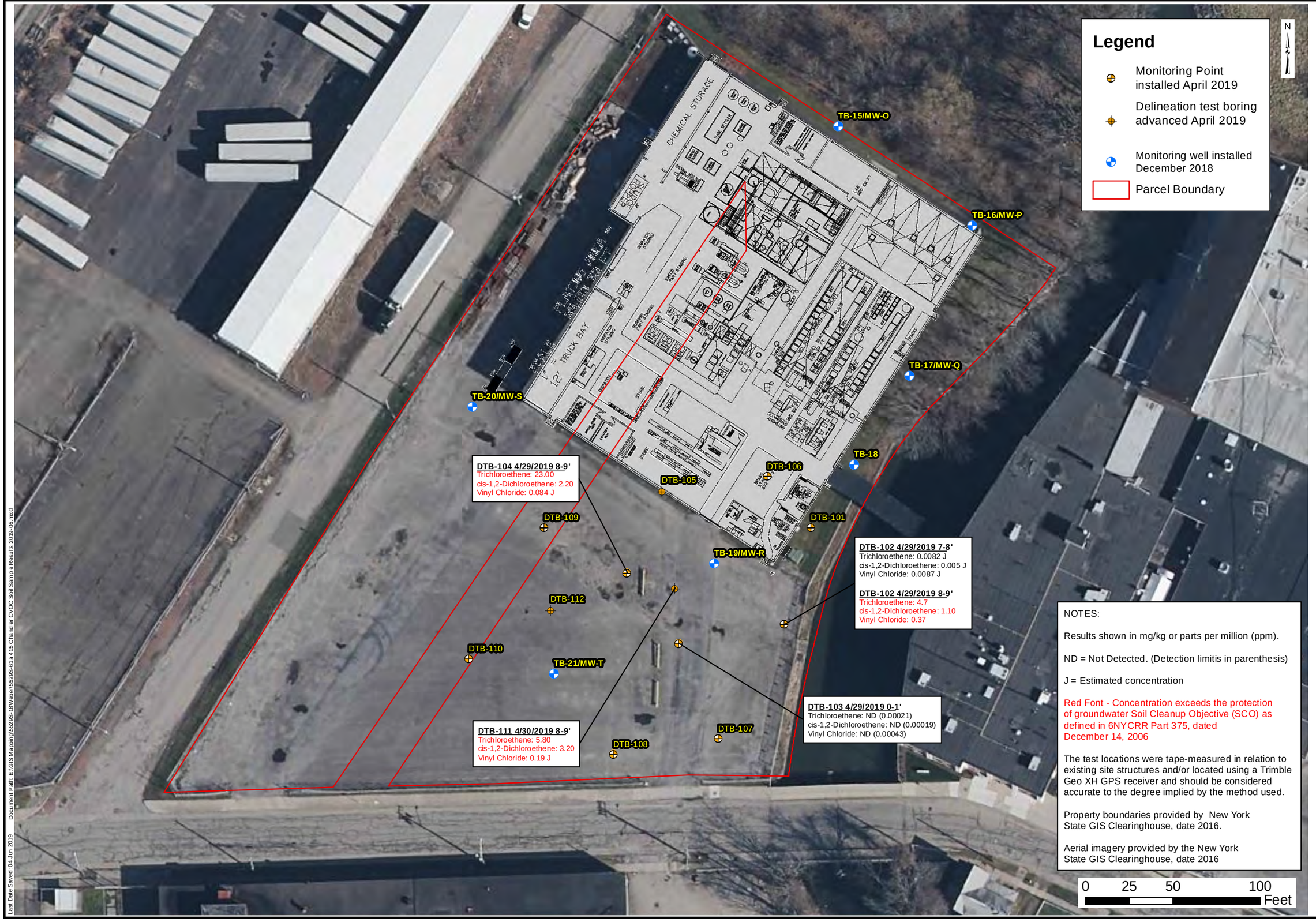
Drawing Title
Site Plan with Select Soil Vapor Intrusion Test Results

Project No.
5529S-18

FIGURE 1

Last Date Saved: 04 Jun 2019 Document Path: E:\GIS Mapping\5529S-18\Weber\5529S-58a 415 Chandler select SVI 2019-05.mxd

PRELIMINARY



NOTES:

Results shown in mg/kg or parts per million (ppm).

ND = Not Detected. (Detection limitis in parenthesis)

J = Estimated concentration

Red Font - Concentration exceeds the protection of groundwater Soil Cleanup Objective (SCO) as defined in 6NYCRR Part 375, dated December 14, 2006

The test locations were tape-measured in relation to existing site structures and/or located using a Trimble Geo XH GPS receiver and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

PROJECT MANAGER	CAH	DATE	05-2019
DRAWN BY	CAH/CPS	DATE DRAWN	05-2019
SCALE	AS NOTED	DATE ISSUED	05-30-2019

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Project Title
415 CHANDLER STREET
JAMESTOWN, NEW YORK
NYSDEC SPILL NO. 1812634

Drawing Title
Test Location Plan with Select VOC Results in Soil

Project No.
5529S-18

FIGURE 2

Last Date Saved: 04 Jun 2019 Document Path: E:\GIS Mapping\5529S-18\Weber\5529S-61a 415 Chandler CVOC Soil Sample Results 2019-05.mxd

PRELIMINARY

Legend

- Monitoring point installed April 2019
- Delineation test boring advanced April 2019
- Monitoring well installed December 2018
- Parcel Boundary

N

MW-O 12/26/2018
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.2)
Vinyl chloride: 0.2 J

MW-P 12/26/2018
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.2)
Vinyl chloride: ND (0.2)

MW-Q 12/26/2018
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.2)
Vinyl chloride: ND (0.2)

MW-S 2/21/2019
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.23)
Vinyl chloride: ND (0.2)

TB-18 12/26/2018
Trichloroethene: 2
cis-1,2-Dichloroethene: 13
Vinyl chloride: 8

DTB-109 (5/1/2019)
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.23)
Vinyl chloride: ND (0.2)

DTB-105

DTB-106 (5/1/2019)
Trichloroethene: 9.5
cis-1,2-Dichloroethene: 14
Vinyl chloride: 1.1 J

DTB-104 (5/1/2019)
Trichloroethene: 44
cis-1,2-Dichloroethene: 54
Vinyl chloride: 42

DTB-101 (5/1/2019)
Trichloroethene: 0.67 J
cis-1,2-Dichloroethene: 1.5 J
Vinyl chloride: 5.1

DTB-111

MW-R 12/26/2018
Trichloroethene: 1100
cis-1,2-Dichloroethene: 3500
Vinyl chloride: 840

MW-R 02/21/2019
Trichloroethene: 300 D
cis-1,2-Dichloroethene: 1400 D
Vinyl chloride: 640 D

DTB-112

DTB-110 (5/1/2019)
Trichloroethene: 1.7 J
cis-1,2-Dichloroethene: 3.7 J
Vinyl chloride: 2.4 J

DTB-103 (5/1/2019)
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: 0.42 J
Vinyl chloride: ND (0.2)

DTB-102 (5/1/2019)
Trichloroethene: 17
cis-1,2-Dichloroethene: 540 D
Vinyl chloride: 450 D

MW-T 12/26/2018
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: 0.4 J
Vinyl chloride: 0.3 J

DTB-108 (5/1/2019)
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.23)
Vinyl chloride: ND (0.2)

DTB-107 (5/1/2019)
Trichloroethene: ND (0.2)
cis-1,2-Dichloroethene: ND (0.23)
Vinyl chloride: ND (0.2)

NOTES:
Results shown in ug/kg or parts per billion (ppb).

ND = Not Detected. (Detection limitis in parenthesis)

J = Estimated concentration

D = Result following sample dilution

Red Font - Concentration exceeds the groundwater standard referenced in NYSDEC TOGS 1.1.1 dated June 1998

The test locations were tape-measured in relation to existing site structures and/or located using a Trimble Geo XH GPS receiver and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

0 25 50 100 Feet

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PROJECT MANAGER	CAH
DATE	05-2019
DRAWN BY	CAH/CPS
DATE DRAWN	05-2019
SCALE	AS NOTED
DATE ISSUED	05-28-2019

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415 CHANDLER STREET
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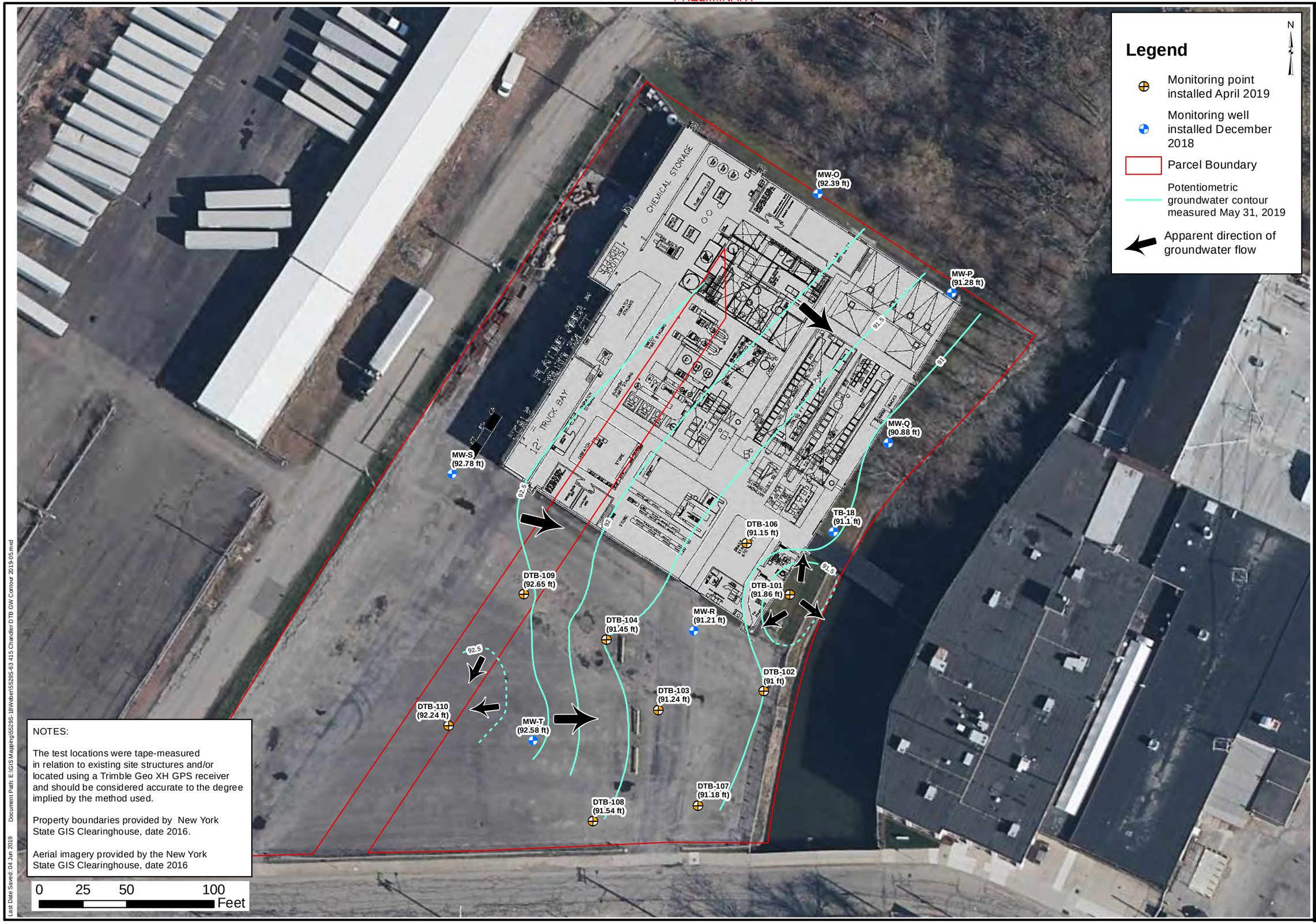
NYSDEC SPILL NO. 1812634

Drawing Title
Test Location Plan Depicting Select Groundwater Test Results

Project No.
5529S-18

FIGURE 3

PRELIMINARY



NOTES:

The test locations were tape-measured in relation to existing site structures and/or located using a Trimble Geo XH GPS receiver and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

PROJECT MANAGER	DRAWN BY	SCALE
CAH	CAH/CPS	AS NOTED

DATE	DATE DRAWN	DATE ISSUED
06-2019	06-2019	06-03-2019

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Project Title
415 CHANDLER STREET
JAMESTOWN, NEW YORK
NYSDEC SPILL NO. 1812634

Drawing Title
Potentiometric Groundwater Contour Map Measured May 31, 2019

Project No.
5529S-18

FIGURE 4

Last Date Saved: 04 Jun 2019 Document Path: E:\GIS Mapping\5529S-18\Weber\5529S-63 415 Chandler DTB GW Contour 2019-05.mxd

TABLES

PRELIMINARY

Table 1

415 Chandler Street

Jamestown, New York

NYSDEC Spill No.1812634

Summary of Detected Volatile Organic Compounds - Indoor Air and Sub-Slab Soil Vapor

Compound	NYSDOH air guidance value	Indoor Air Reference Value (ug/m3)[1]	Sample Desigantion and Date											
			IA-1 4/4/2019	IA-2 4/4/2019	IA-3 4/4/2019	IA-4 4/4/2019	IA-5 4/4/2019	SSV-1 4/4/2019	SSV-2 4/4/2019	SSV-3 4/4/2019	SSV-4 4/4/2019	SSV-5 4/4/2019	SSV-6 9/5/2018	Background 4/4/2019
1,1,1-Trichloroethane	NA	20.6	ND (0.1)	ND (0.09)	ND (0.083)	2.8	ND (0.098)	16	17	13	15	9.9	ND (0.11)	ND (0.086)
1,2,4-Trimethylbenzene	NA	9.5	ND (0.11)	0.98	1.1	ND (0.1)	1.1	4	4.9	9.1	5.2	3	8.4	ND (0.096)
1,2-Dichloroethane	NA	<0.9	ND (0.091)	ND (0.08)	0.24	0.16	ND (0.088)	0.59	ND (0.087)	ND (0.093)	ND (0.083)	ND (0.077)	ND (0.10)	0.23
1,3,5-Trimethylbenzene	NA	3.7	ND (0.12)	ND (0.1)	ND (0.096)	ND (0.11)	ND (0.11)	2	2.6	4.9	2.7	1.4	3.1	ND (0.1)
1,3-Butadiene	NA	<3.0	ND (0.14)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.13)	0.46	1.4	ND (0.12)	ND (0.11)	ND (0.15)	ND (0.11)
1,4-Dioxane	NA	NA	ND (0.097)	ND (0.086)	ND (0.079)	ND (0.087)	ND (0.094)	2	ND (0.093)	ND (0.099)	ND (0.089)	ND (0.082)	ND (0.11)	ND (0.082)
2-Hexanone	NA	NA	ND (0.1)	ND (0.09)	ND (0.083)	ND (0.091)	ND (0.098)	5.6	ND (0.097)	ND (0.1)	ND (0.093)	ND (0.086)	ND (0.11)	ND (0.086)
4-Ethyltoluene	NA	3.6	ND (0.13)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.13)	0.95	ND (0.12)	1.5	1	ND (0.11)	2.7	ND (0.11)
4-Methyl-2-pentanone	NA	6	2.3	4.2	3.3	1.4	5.3	6.2	3.4	3.8	3.7	1.5	1.2	0.94
Acetone	NA	98.9	28	46	32	19	28	260	190	170	110	48	26	11
Acetonitrile	NA	NA	ND (0.2)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.19)	2.2	4.9	2.7	2.5	ND (0.17)	ND (0.22)	ND (0.17)
Acrolein	NA	NA	ND (0.23)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.22)	ND (0.21)	1.6	ND (0.24)	ND (0.21)	ND (0.2)	ND (0.26)	ND (0.2)
alpha-Pinene	NA	3.6	ND (0.13)	0.9	2.4	1.1	ND (0.12)	6.1	1.2	ND (0.13)	3.6	ND (0.11)	2.3	2.4
Benzene	NA	9.4	0.55	0.63	0.61	0.41	0.48	4.8	5.5	9.3	10	1.9	10	0.35
Carbon Disulfide	NA	4.2	ND (0.25)	ND (0.22)	ND (0.2)	ND (0.22)	ND (0.24)	10	7.5	16	4.7	1.9	8	ND (0.21)
Carbon Tetrachloride	NA	<1.3	0.36	0.36	0.36	0.38	0.36	0.15	ND (0.11)	0.19	10	0.16	ND (0.13)	0.36
Chloroform	NA	1.1	0.36	ND (0.097)	0.15	1.8	ND (0.11)	0.44	0.23	0.22	0.41	1.2	ND (0.12)	ND (0.092)
Chloromethane	NA	3.7	0.36	0.36	0.34	0.33	0.31	ND (0.12)	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.11)	ND (0.15)	0.33
cis-1,2-Dichloroethene	NA	<1.9	ND (0.12)	ND (0.1)	ND (0.094)	ND (0.1)	ND (0.11)	3	0.26	ND (0.12)	ND (0.11)	0.4	2	ND (0.098)
Cyclohexane	NA	NA	ND (0.23)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.22)	5.1	4.2	14	12	3.2	11	ND (0.2)
Dibromochloromethane	NA	NA	ND (0.11)	ND (0.095)	ND (0.088)	ND (0.097)	ND (0.1)	0.26	ND (0.1)	ND (0.11)	ND (0.099)	ND (0.091)	ND (0.12)	ND (0.091)
Dichlorodifluoromethane (CFC 12)	NA	16.5	2.2	2.1	1.9	2	1.9	2	4.1	1.9	1.9	1.9	5.2	1.9
d-Limonene	NA	22.5	ND (0.17)	ND (0.15)	0.85	1.1	ND (0.16)	2.2	27	1.5	1.8	0.84	2.2	ND (0.14)
Ethanol	NA	210	8.2	17	15	20	13	85	13	13	23	ND (0.48)	ND (0.64)	ND (0.48)
Ethyl Acetate	NA	5.4	13	4.1	15	19	20	17	4.7	5	150	8.4	ND (0.48)	9.4
Ethylbenzene	NA	5.7	ND (0.12)	ND (0.1)	0.77	ND (0.1)	ND (0.11)	8.9	6.2	9.2	9.9	4	7.7	ND (0.098)
Isopropyl Alcohol	NA	NA	5.9	14	11	24	13	ND (0.31)	ND (0.32)	5.7	11	3.7	ND (0.38)	4.5
Isopropylbenzene	NA	NA	ND (0.12)	ND (0.1)	ND (0.096)	ND (0.11)	ND (0.11)	0.94	0.82	1.3	22	ND (0.1)	ND (0.13)	ND (0.1)
m,p-Xylenes	NA	22.2	ND (0.22)	ND (0.19)	2.4	2	ND (0.21)	23	15	33	27	7.4	35	2
Methyl Ethyl Ketone (2-Butanone)	NA	12	17	38	19	5.5	25	24	28	23	19	5.4	33	2.5
Methylene Chloride	60[2]	10	1.1	1.4	3.8	2.8	1.4	19	8.3	7.5	11	6.2	ND (0.26)	3.1
Naphthalene	NA	5.1	ND (0.2)	ND (0.18)	ND (0.16)	ND (0.18)	ND (0.19)	0.76	1	0.87	0.79	0.94	1.5	ND (0.17)
n-Butyl Acetate	NA	4.5	1.5	1.9	1.6	1.2	1.7	2.1	ND (0.11)	ND (0.11)	ND (0.1)	ND (0.095)	ND (0.13)	1.9
n-Heptane	NA	NA	ND (0.13)	ND (0.12)	1.1	0.87	ND (0.13)	13	ND (0.12)	33	24	5.7	21	0.97
n-Hexane	NA	10.2	ND (0.17)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.16)	9.3	5.8	32	21	6.8	32	ND (0.14)
n-Nonane	NA	7.8	1.5	2.7	1.5	ND (0.12)	2.3	18	15	37	23	7.2	11	ND (0.12)
n-Octane	NA	4.5	ND (0.18)	ND (0.16)	ND (0.15)	ND (0.17)	ND (0.18)	20	14	40	29	8.8	16	ND (0.16)
n-Propylbenzene	NA	NA	ND (0.12)	ND (0.1)	ND (0.096)	ND (0.11)	ND (0.11)	1	1.1	1.8	1.5	0.75	1.9	ND (0.1)
o-Xylene	NA	7.9	ND (0.12)	ND (0.1)	0.84	ND (0.11)	ND (0.11)	7.6	6	12	8.8	2.6	11	0.69
Propene	NA	NA	7.6	7.7	7	1.2	2.1	5.1	4	11	4.2	0.87	2.9	ND (0.17)
Styrene	NA	1.9	ND (0.13)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.13)	1.6	0.83	ND (0.14)	0.89	ND (0.11)	3.2	ND (0.11)
Tetrachloroethene	30[3]	15.9	ND (0.11)	ND (0.094)	0.48	0.25	ND (0.1)	19	1.2	0.57	7.6	1.5	6.2	0.45
Tetrahydrofuran (THF)	NA	NA	ND (0.1)	ND (0.091)	ND (0.084)	ND (0.092)	ND (0.1)	ND (0.096)	ND (0.098)	ND (0.11)	7	ND (0.087)	ND (0.12)	ND (0.087)
Toluene	NA	43	59	140	78	19	97	82	44	69	180	34	120	8.1
Trichloroethene	2[4]	4.2	ND (0.11)	ND (0.098)	0.18	0.44	ND (0.11)	7.5	19	5.5	19	680	320	0.22
Trichlorofluoromethane	NA	18.1	1.2	1.1	1.1	1.1	0.99	1.2	0.92	0.96	1.2	0.95	1.4	1.1
Trichlorotrifluoroethane	NA	3.5	ND (0.12)	ND (0.1)	ND (0.095)	ND (0.1)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	0.91	ND (0.099)	ND (0.13)	ND (0.099)

NOTES

Volatile organic compound (VOC) concentrations are presented in micrograms per cubic meter (µg/m^3).

No NYSDOH criteria is available for soil vapor samples

ND = Not detected at concentration above analytical laboratory method detection limit indicated in parenthesis.

NA = Not Available.

Highlighted value exceeds the Indoor Air Reference Value

Highlighted value exceeds the NYSDOH Indoor Air Guidance Value

[1]Unless otherwise noted the Indoor Air Reference Value shown is the 90th percentile referenced in Table C2 of the NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

[2] NYSDOH derived air guidance values in NYSDOH document titled "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

[3] Guidance value identified in NYSDOH September 2013 Fact Sheet "Tetrachloroethene (PERC) in Indoor and Outdoor Air".

[4] Guidance value identified in NYSDOH August 2015 Fact Sheet "Trichloroethene (TCE) in Indoor and Outdoor Air".

PRELIMINARY

Table 2
415 Chandler Street
Jamestown, New York
NYSDEC Spill No.1812634

SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) - SOIL SAMPLES

Compound	Unrestricted Use SCO[(1)]	Protection of Groundwater SCO[(2)]	Restricted Industrial Use SCO[(3)]	Sample Designation and Date				
				DTB-102 (7-8')	DTB-102 (8-9')	DTB-103 (0-1')	DTB-104 (8-9')	DTB-111 (8-9')
				4/29/2019	4/29/2019	4/29/2019	4/29/2019	4/30/2019
1,1-Dichloroethene*	0.33	0.33	1,000	ND (0.0005)	0.013 J	ND (0.00027)	ND (0.024)	0.020 J
1,2,3-Trichlorobenzene	NS	NS	NS	0.0017 BJ	ND (0.018)	ND (0.00048)	ND (0.042)	ND (0.022)
1,2,4-Trichlorobenzene	NS	3.4	NS	0.0015 BJ	0.015 BJ	ND (0.00039)	ND (0.034)	ND (0.027)
1,2,4-Trimethylbenzene	3.6	3.6	380	0.00076 J	ND (0.0068)	0.0056	ND (0.016)	ND (0.0081)
1,2-Dichlorobenzene	1.1	1.1	1,000	0.00052 J	ND (0.0068)	ND (0.00019)	ND (0.016)	ND (0.0081)
1,3,5-Trimethylbenzene	8.4	8.4	380	0.00052 J	ND (0.0068)	0.0031 J	ND (0.016)	ND (0.0081)
2-Butanone (MEK)	0.12	0.3	100	0.025	ND (0.068)	0.0056	ND (0.16)	ND (0.081)
4-Isopropyltoluene	NS	10	NS	0.00055 J	ND (0.0068)	0.0014 J	ND (0.016)	ND (0.0081)
Acetone	0.05	0.05	1,000	**0.27**	**ND (0.160)**	**0.061**	**ND (0.38)**	**ND (0.190)**
Benzene	0.06	0.06	89	0.0006 J	ND (0.0068)	ND (0.00019)	ND (0.016)	ND (0.0081)
Carbon Disulfide	NS	2.7	NS	0.016	0.011 J	0.00098 J	0.028 J	0.016 J
cis-1,2-Dichloroethene	0.25	0.25	1,000	0.005 J	**1.10**	ND (0.00019)	**2.20**	**3.20**
Cyclohexane	NS	NS	NS	0.0061 J	ND (0.0089)	0.00062 J	ND (0.024)	ND (0.011)
Ethylbenzene	1	1	780	ND (0.00034)	ND (0.0068)	0.00032 J	ND (0.016)	ND (0.0081)
Isopropylbenzene (Cumene	NS	2.3	NS	0.00048 J	ND (0.0068)	0.00042 J	ND (0.016)	ND (0.0081)
Methyl Acetate	NS	NS	NS	0.028	0.44 B	0.0093	ND (0.067)	ND (0.034)
Methylcyclohexane	NS	NS	NS	0.030	ND (0.011)	0.0012 J	ND (0.025)	ND (0.013)
Methyl tert-Butyl Ether	0.93	0.93	1,000	0.00052 J	ND (0.0068)	0.0009 J	ND (0.016)	ND (0.0081)
m,p-Xylenes	0.26	0.26	1,000	ND (0.00063)	ND (0.013)	0.00061 J	ND (0.03)	ND (0.015)
o-Xylene	0.26	0.26	1,000	ND (0.00034)	ND (0.0068)	0.0012 J	ND (0.016)	ND (0.0081)
n-Butylbenzene	0.25	12	1,000	0.00039 J	ND (0.0068)	0.0024 J	ND (0.016)	ND (0.0081)
n-Propylbenzene	3.9	3.9	1,000	ND (0.00034)	ND (0.0068)	0.00076 J	ND (0.016)	ND (0.0081)
sec-Butylbenzene	11	11	1,000	0.00055 J	ND (0.0068)	0.0011 J	ND (0.016)	ND (0.0081)
tert-Butylbenzene	5.9	5.9	1,000	0.00066 J	ND (0.0068)	ND (0.00019)	ND (0.016)	ND (0.0081)
Toluene	0.7	0.7	1,000	0.0013 J	ND (0.0068)	0.00087 J	0.042 J	ND (0.0081)
trans-1,2-Dichloroethene	0.19	0.19	1,000	0.00064 J	0.028 J	ND (0.00019)	0.040 J	0.089 J
Trichloroethene (TCE)	0.47	0.47	400	0.0082 J	**4.7**	ND (0.00021)	**23.00**	**5.80**
Vinyl Chloride	0.02	0.02	27	0.0087 J	**0.37**	ND (0.00043)	**0.084 J**	**0.19 J**

NOTES

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Objective (SCO) for Unrestricted Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

(2) = Soil Cleanup Objective (SCO) for the protection of groundwater as referenced in 6 NYCRR Part 375 dated 12/14/06 and NYSDEC Comissioner's Policy 51 supplimentals SCOs dated 10/21/20

(3) = Soil Cleanup Objective (SCO) for Restricted Industrial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

NS = No Standard

ND = Not Detected at a concentration greater than the method detection limit shown in parenthesis

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

B = Compound was also detected in the method blank at a concentration that may have contributed to the sample result.

Highlighted value exceeds the Unrestricted Use SCO and/or Protection of Groundwater SCO

Highlighted value exceeds the Restricted Industrial Use SCO

PRELIMINARY

Table 3
415 Chandler Street
Jamestown, New York
NYSDEC Spill No.1812634

Summary of Detected VOC results in ug/l or Parts Per Billion (ppb) - Groundwater Samples

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value [1]	Sample Location and Date									
			TB-18 12/26/2018 Water	MW-O 12/26/2018 Water	MW-P 12/26/2018 Water	MW-Q 12/26/2018 Water	MW-R 12/26/2018 Water	MW-R 2/21/2019 Water	MW-S 2/21/2019 Water	MW-T 12/26/2018 Water
Acetone	67-64-1	50	0.7 U	0.7 U	**1 J**	0.7 U	0.7 U	**4.2 J**	2.1 U	**2 J**
Benzene	71-43-2	1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.2 U
Bromomethane	74-83-9	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.70 U	0.70 U	0.3 U
2-Butanone (MEK)	78-93-3	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.78 U	0.78 U	0.3 U
Carbon Disulfide	75-15-0	60	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.6 B**	0.25 U	0.2 U
1,1-Dichloroethane	75-34-3	5	**0.6 J**	0.2 U	0.2 U	**0.2 J**	0.2 U	0.20 U	0.20 U	0.2 U
1,1-Dichloroethene	75-35-4	5	0.2 U	0.2 U	0.2 U	0.2 U	**38 X**	**50 X**	0.25 U	0.2 U
cis-1,2-Dichloroethene	156-59-2	5	**13 X**	0.2 U	0.2 U	0.2 U	**3,500 X**	**1400 D X**	0.23 U	**0.4 J**
trans-1,2-Dichloroethene	156-60-5	5	**0.4 J**	0.2 U	0.2 U	0.2 U	**12 X**	**4.6**	0.20 U	0.2 U
4-Isopropyltoluene	99-87-6	5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.21 J**	0.20 U	0.2 U
Tetrachloroethene	127-18-4	5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U	0.2 U
Toluene	108-88-3	5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	0.2 U
1,1,2-Trichloroethane	79-00-5	1	0.2 U	0.2 U	0.2 U	0.2 U	**2 J X**	**0.85 J**	0.20 U	0.2 U
Trichloroethene (TCE)	79-01-6	5	**2**	0.2 U	0.2 U	0.2 U	**1100 X**	**300 D X**	0.20 U	0.2 U
Vinyl chloride	75-01-4	2	**8 X**	**0.2 J**	0.2 U	0.2 U	**840 X**	**640 D X**	0.20 U	**0.3 J**
m,p-Xylenes	179601-23-1	5	1 U	1 U	1 U	1 U	1 U	0.20 U	0.20 U	1 U
Cyclohexane	110-82-7	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.46 J**	0.26 U	0.2 U
Methylcyclohexane	108-87-2	NA	0.2 U	0.2 U	0.2 U	0.2 U	**1 J**	**1.3**	0.20 U	0.2 U
Total Chlorinated VOCs		NA	24.0	0.2	0.0	0.2	5492.0	2395.5	0.0	0.7
Total VOCs		NA	24.0	0.2	1.0	0.2	5493.0	2403.2	0.0	2.7

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value [1]	Sample Location and Date								
			DTB-101 5/1/2019 Water	DTB-102 5/1/2019 Water	DTB-103 5/1/2019 Water	DTB-104 5/1/2019 Water	DTB-106 5/1/2019 Water	DTB-107 5/1/2019 Water	DTB-108 5/1/2019 Water	DTB-109 5/1/2019 Water	DTB-110 5/1/2019 Water
Acetone	67-64-1	50	**3.3 J**	2.1 U	**2.8 J**	2.1 U	**7.5 J**	**3.4 J**	**4.8 J**	**2.6 J**	**2.4 J**
Benzene	71-43-2	1	0.20 U	0.20 U	0.20 U	**0.24 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromomethane	74-83-9	5	0.70 U	0.70 U	0.70 U	0.70 U	**0.86 J**	0.70 U	0.70 U	0.70 U	0.70 U
2-Butanone (MEK)	78-93-3	50	0.78 U	0.78 U	0.78 U	0.78 U	**3.6 J**	0.78 U	0.78 U	0.78 U	0.78 U
Carbon Disulfide	75-15-0	60	**0.28 BJ**	**0.34 BJ**	0.25 U	0.25 U	0.25 U	0.25 U	**0.35 BJ**	0.25 U	0.25 U
1,1-Dichloroethane	75-34-3	5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	75-35-4	5	0.25 U	**14 X**	0.25 U	**0.60 J**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-Dichloroethene	156-59-2	5	**1.5 J**	**540 D X**	**0.42 J**	**54 X**	**14 X**	0.23 U	0.23 U	0.23 U	**3.7 J**
trans-1,2-Dichloroethene	156-60-5	5	0.20 U	**1.6 DJ**	0.20 U	**0.58 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
4-Isopropyltoluene	99-87-6	5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	127-18-4	5	0.21 U	**4.9 DJ**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Toluene	108-88-3	5	**0.99 J**	0.20 U	0.20 U	0.20 U	**0.34 J**	0.20 U	0.20 U	0.20 U	0.20 U
1,1,2-Trichloroethane	79-00-5	1	0.20 U	**0.23 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethene (TCE)	79-01-6	5	**0.67 J**	**17 X**	0.20 U	**44 X**	**9.5 X**	0.20 U	0.20 U	0.20 U	**1.7 J**
Vinyl chloride	75-01-4	2	**5.1 X**	**450 D X**	0.20 U	**42 X**	**1.1 J**	0.20 U	0.20 U	0.20 U	**2.4 J X**
m,p-Xylenes	179601-23-1	5	**0.26 BJ**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Cyclohexane	110-82-7	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Methylcyclohexane	108-87-2	NA	0.20 U	**0.42 J**	0.20 U	**0.32 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Chlorinated VOCs		NA	7.3	1027.7	0.4	141.2	24.6	0.0	0.0	0.0	0.9
Total VOCs		NA	12.1	1028.5	3.2	141.7	36.9	3.4	5.2	2.6	10.2

Notes:

U = Not detected above the concentration indicated J = Estimated Value D = Data reported from a dilution B = Also detected in associated blank

VOC = Volatile Organic Compound NA = Not available NT = Not tested

[1] Groundwater standard or guidance value are as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums.

X = Concentration exceeds groundwater standard or guidance value

ATTACHMENT A

TEST BORING LOGS

TB-101 through TB-112

day

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring DTB-101

Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: -
Datum: -
Date Started: 4/29/2019
Date Ended: 4/29/2019
Borehole Depth: 12.0'
Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1							0	TOPSOIL	
								Gray, Crushed Rock	
							7	Brown/Tan, Silty fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
2	NA	S-1	0-4	1.9'	NA				
3							39		
4						34			
							0		
5								Black, fine to coarse Sand and Cinders, little Gravel, moist (FILL)	
							34		
6	NA	S-2	4-8	2.7'	NA				
							16	Gray, Clayey fine to coarse Sand, little fine to coarse Gravel, moist (FILL)	
7								Brick fragments (FILL)	
						148	39	Gray, SILT, little fine to coarse Gravel, trace Sand, wet	**Monitoring Point Depth: 10 ft.**
8									**Screened Interval: 7 - 10 ft.**
							0	Gray, coarse GRAVEL, little Cobbles, little Silty Sand, wet	**5/1/19 GW Sample Collection Depth: 8.5 ft.**
9									
						64	61	Red/Brown, Clayey fine Sand, little fine to medium Gravel, wet (TILL)	
10	NA	S-3	8-12	3.4'	NA				
							33	…Gray/Brown	
11									
							32		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A RAE Systems PPBRAE 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring DTB-101

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day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-102

Ground Elevation: - Datum: -
Date Started: 4/29/2019 Date Ended: 4/29/2019
Borehole Depth: 12.0' Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
0							0	ASPHALT	
1							13	Brown/Tan, fine to coarse Sand and fine to coarse Gravel, trace Silt, damp (FILL)	
2	NA	S-1	0-4	2.0'	NA	24	0	…little cobbles	
3							0		
4								Brown, Clayey fine Sand, little fine to coarse Gravel, Cinders,	
5							0	Brick fragments, moist (FILL)	
6	NA	S-2	4-8	1.8'	NA		0	….Brick fragment layer ...wet	
7						354	319	Gray, coarse SAND fine Gravel, wet Gray, SILT and Wood fibers, wet	
8							314		
9						3338	99	Gray, Silty fine SAND, little fine to medium Gravel, wet (TILL)	**Monitoring Point Depth: 9.5 ft.** **Screened Interval: 6.5 - 9.5 ft.**
10	NA	S-3	8-12	3.8'	NA	113	21 0	...Sand lense ...Red/Brown	**5/1/19 GW Sample Collection Depth: 8 ft.**
11						27	0		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A RAE Systems PPBRAE 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring DTB-102

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Test Boring DTB-103

Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: -
Datum: -
Date Started: 4/29/2019
Date Ended: 4/29/2019
Borehole Depth: 12.0'
Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						11,720	20,352	ASPHALT Brown, fine to coarse Sand and fine to coarse Gravel, trace Silt, damp (FILL)	**Paint thinner-type odor 0-1'**
2	NA	S-1	0-4	2.1'	NA		2201		
3						54	484	...little cobbles	
4								Gray/Brown, Clayey fine coarse Sand, fine to coarse Gravel, moist (FILL)	
5							8		
6	NA	S-2	4-8	2.4'	NA		50	Gray, coarse SAND and fine to coarse Gravel, trace Clay, moist	**Monitoring Point Depth: 9.5 ft.** **Screened Interval: 6.5 - 9.5 ft.**
7							2		**5/1/19 GW Sample Collection Depth: 8 ft.**
8						50	3	(fine to medium sand lense) …wet ...little Sand	
9						9	0		
10	NA	S-3	8-12	3.4'	NA	32	0	Gray, Sandy CLAY, trace Gravel, wet	
11						214	0	Red/Brown, Silty fine SAND, little fine to medium Gravel, wet (TILL)	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A RAE Systems PPBRAE 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring DTB-103

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day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

Test Boring DTB-104

Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: -
Datum: -
Date Started: 4/29/2019
Date Ended: 4/29/2019
Borehole Depth: 12.0'
Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						1395	3775	ASPHALT Brown/Tan, fine to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	2.4'	NA		311		
3							194		
4							80	Brown, medium Sand, little fine to medium Gravel, little Silt, moist (FILL)	
5							73	...Brick fragments, trace Cobbles	
6	NA	S-2	4-8	2.4'	NA	1500	2488	Gray/Black	**Monitoring Point Depth: 10 ft.** **Screened Interval: 7 - 10 ft.**
7							47	...wet	**5/1/19 GW Sample Collection Depth: 8.5 ft.**
8						7598	1129	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Clay, wet	
9						38,750	2681	Gray, Sandy CLAY, trace Gravel, wet	
10	NA	S-3	8-12	4.0'	NA	27,230	3391		
11							59	Red/Brown, Silty fine SAND, little fine to medium Gravel, wet (TILL)	
12						359	0 0	Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Notes:
1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A RAE Systems PPBRAE 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring DTB-104

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DAY ENVIRONMENTAL, INC.

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-105

Page 1 of 1

Ground Elevation: -
Datum: -
Date Started: 4/29/2019
Date Ended: 4/29/2019
Borehole Depth: 16.0'
Borehole Diameter: 2 1/4 inch
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ■ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1	NA	S-1	0-4	2.4'	NA		0	TOPSOIL	
2							0	Brown/Tan, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
3						890*	0	Brown, medium SAND, little fine to coarse Gravel, little Silt, moist (FILL)	
4							0	...trace Cobbles	
5	NA	S-2	4-8	2.6'	NA		0	Brown, Clayey fine SAND and medium to coarse GRAVEL, shale fragments, moist	
6							0	...fine to medium Gravel	
7						346	0	...wet	
8							0		
9	NA	S-3	8-12	4.0'	NA	2152	141	Gray fine Sandy CLAY, trace Gravel, wet	
10							0		
11						313	0		
12							0		
13	NA	S-4	12-16	4.0'	NA		0	Red/Brown, Silty fine SAND, little fine to medium Gravel, wet (TILL)	
14							0		
15							0		
16							0		
								Bottom of Test Boring @ 16.0'	

Notes:
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* Headspace on empty bag = 204 ppm.

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Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-106

Ground Elevation: - Datum: -
Date Started: 4/29/2019 Date Ended: 4/29/2019
Borehole Depth: 15.0' Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
								CONCRETE	Background PID readings: 10-90 ppb
1	NA	S-1	1-4	2.4'	NA	718	724	Tan/Brown, medium to coarse Sand and fine to coarse Gravel, trace Silt, damp (FILL)	
2							429		
3							249		
4	NA	S-2	4-8	2.5'	NA		125	Brown, medium SAND and fine to coarse Gravel, little cobbles, little Silt, moist	
5							109		
6								Tan, Clayey fine to medium SAND, and coarse Gravel, little Cobbles, moist	
7						768	0	...wet	
8							0	Brown/Gray, fine to coarse GRAVEL, little Cobbles, little coarse Sand, little Silt, wet	
9	NA	S-3	8-12	2.0'	NA	1221	0		
10							0		
11							0		
12	NA	S-4	12-15	0.7'	NA			...trace Silt	Broken Gravel or Cobble in cutting shoe
13							170		Monitoring Point Depth: 15 ft.
14						802	46	Red/Brown, Silty fine SAND, little Gravel, wet (TILL)	Screened Interval: 12 - 15 ft.
15									5/1/19 GW Sample Collection Depth: 14.5 ft.
16								Bottom of Test Boring @ 15.0'	

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DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-107

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 12' Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1	NA	S-1	0-4	2.7'	NA	74	2188	ASPHALT Brown/Tan, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2							348		
3							201	Black, fine Clayey Sand, little Cinders, little Ash, little fine to medium Gravel, moist (FILL) ...Brick fragments	
4							91	Tan, fine to medium Clayey SAND and fine to coarse Gravel, moist	
5	NA	S-2	4-8	1.6'	NA		0		
6							0	...little Clay	
7						134	0	Brown, SILT, some fine to medium Gravel, little Sand, wet	**Monitoring Point Depth: 10 ft.** **Screened Interval: 7 - 10 ft.** **5/1/19 GW Sample Collection Depth: 8.5 ft.**
8							0	…and fine to medium GRAVEL	
9	NA	S-3	8-12	3.3'	NA	162	0	Red/Brown, fine Silty SAND, little fine to medium Gravel, wet (TILL)	
10							0		
11							0		
12						21	0		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes:
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2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A RAE Systems PPBRAE 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
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Test Boring DTB-108

Project #: 5529S-18
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DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 12' Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						253	24	ASPHALT Brown/Red, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	2.6'	NA		0	...trace Cobbles	
3							0	Brown, medium Clayey Sand, little fine to coarse Gravel, Brick fragments, damp (FILL)	
4							0	...Gray	
5							0	Brown, SILT, some fine to medium Gravel, little fine Sand, moist	
6	NA	S-2	4-8	3.1'	NA		0	...little Clay	
7						124	0	Brown, Clayey medium to coarse SAND and fine to medium GRAVEL ...wet	**Monitoring Point Depth: 9.5 ft.** **Screened Interval: 6.5 - 9.5 ft.** **5/1/19 GW Sample Collection Depth: 8 ft.**
8							0	Red/Brown, Silty fine SAND, little fine to medium Gravel, wet (TILL)	
9							0		
10	NA	S-3	8-12	3.4'	NA		0	...trace Cobbles	
11							0	...Sand lense	
12						173	0		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes:
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Sampling Method: Direct Push

Ground Elevation: -
Datum: -
Date Started: 4/30/2019
Date Ended: 4/30/2019
Borehole Depth: 12'
Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						1182	178	ASPHALT Brown/Tan, medium, to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	2.0'	NA		9	...trace Cobbles	
3							0	Tan, Clayey fine to medium SAND, little fine to coarse Gravel, little Cobbles, moist	
4							25		
5							0		**Monitoring Point Depth: 8 ft.** **Screened Interval: 5 - 8 ft.** **5/1/19 GW Sample Collection Depth: 6.5 ft.**
6	NA	S-2	4-8	3.0'	NA	235	0	Gray, Clayey GRAVEL, little coarse Sand, wet	
7							0	Gray, Clayey fine to medium SAND, little fine to medium Gravel, wet (TILL)	
8							0	...red/brown, Silty fine SAND	
9							0		
10	NA	S-3	8-12	4.0'	NA		0		
11						227	0		
12							0		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes:
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DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-110

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 12' Borehole Diameter: 2 1/4 inch
Completion Method: ■ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						151	609	ASPHALT Tan/Brown, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	2.3'	NA		0		
3							0		
4							0	Brown, SILT, some fine to coarse Gravel, little fine Sand, moist	
5							0	Tan, Clayey fine to medium SAND and fine to coarse GRAVEL, damp	
6	NA	S-2	4-8	2.4'	NA		0	...coarse Sand	
7							0	Gray, fine to coarse GRAVEL, little Sand, little Clay, wet	**Monitoring Point Depth: 10 ft.** **Screened Interval: 7 - 10 ft.**
8						65	0		**5/1/19 GW Sample Collection Depth: 8.5 ft.**
9							0	Red/Brown, Clayey fine SAND, little fine to medium Gravel, wet (Till)	
10	NA	S-3	8-12	4.0'	NA		0	...silty fine SAND	
11							0		
12						55	0		
13								Bottom of Test Boring@ 12.0'	
14									
15									
16									

Notes:
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Test Boring DTB-110

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Project #: 5529S-18
Project Address: 415 Chandler Street
Jamestown, NY
DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-111

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 22.0' Borehole Diameter: 2 1/4 inch
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						608	0	ASPHALT	
2	NA	S-1	0-4	2.2'	NA		0	Brown/Tan, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
3							0	Tan, Clayey fine to medium SAND and fine to coarse GRAVEL, damp	
4							0		
5							0	Brown, SILT, little medium to coarse Gravel, trace Sand, moist	
6	NA	S-2	4-8	2.7'	NA		158		
7							461	Gray, Clayey fine to coarse SAND and fine to coarge GRAVEL, moist	
8						1477		...wet ...little Sand	
9						4539	812 2063	Gray, Sandy CLAY, trace fine to coarse Gravel, wet	
10	NA	S-3	8-12	4.0'	NA		678		
11						536	0		
12							0		
13						378	15	Red/Brown, fine to medium SAND, little fine to medium Gravel, wet (TILL)	
14	NA	S-4	12-16	4.0'	NA		10		
15						419	0		
16							0		

Notes:
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DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-111

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 22.0' Borehole Diameter: 2 1/4 inch
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
17	NA	S-5	16-19	3.0'	NA	380	34	...Gray, some medium to coarse Gravel	
18							0		
19						272	0		
20	NA	S-6	19-22	3.0'	NA	357	0	...Rock fragment	
21							0		
22							0		
23								Bottom of Test Boring @ 22.0'	
24									
25									
26									
27									
28									
29									
30									
31									
32									

Notes:
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DAY Representative: C. Hampton
Drilling Contractor: Nothnagle
Sampling Method: Direct Push

Test Boring DTB-112

Ground Elevation: - Datum: -
Date Started: 4/30/2019 Date Ended: 4/30/2019
Borehole Depth: 12.0' Borehole Diameter: 2 1/4 inch
Completion Method: ☐ Well Installed ■ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	Recovery (ft)	N-Value or RQD%	Headspace PID (ppb)	PID Reading (ppb)	Sample Description	Notes
1						212	279	ASPHALT Brown/Tan, medium to coarse Sand and fine to coarse Gravel, little Silt, damp (FILL)	
2	NA	S-1	0-4	1.8'	NA		79	Brown, Clayey medium Sand and fine to coarse Gravel, trace Cobbles, Crushes Stone. moist (FILL)	
3								...little Ash and Cinders	
4							3	PEAT and Gray SILT, moist	
5						1475	192		
6	NA	S-2	4-8	1.7'	NA		3	...wood fibers	
7							0	Tan, Clayey fine SAND, little medium to coarse Gravel, wet	
8									
9							0	Gray, Clayey fine SAND, little fine to medium Gravel, wet (TILL)	
10	NA	S-3	8-12	4.0'	NA		8	...Red/Brown, Silty fine SAND	
11							0		
12							0		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes:
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