CONCLUSIONS

The purpose of this study was to assess the PECs identified in the February 19, 2019, Enhanced Transaction Screen Assessment specifically, one former fuel oil UST and the use of the subject property as a dry cleaning facility. Select soil and groundwater samples were collected from the areas of the PECs.

FIELD OBSERVATIONS

Five boreholes (BH1 through BH5) were completed in accessible areas of the subject property proximate to the environmental concerns. (See Figure 2.) A total of 35 soil samples were collected for geologic description. Fill material consisting of asphalt and sand was noted within test borings BH1 through BH5 to a maximum depth of approximately 1.5 ft. bgs. Generally, the native soils encountered consisted of silty clay to the bottom of the test borings. Apparent groundwater was encountered in all boreholes between approximately 2.3 and 12.5 ft. bgs.

LABORATORY ANALYTICAL RESULTS

Soil

VOLATILE ORGANIC COMPOUNDS

Four VOCs were detected at concentrations above the Soil Cleanup Levels Part 375 SCOs for Unrestricted Use in the samples collected and submitted for VOCs analysis. The following VOCs were detected in these samples at concentrations above the SCOs for Unrestricted Use:

- Acetone, Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in BH2
- Cis-1,2- Dichloroethene and Tetrachloroethene in BH3

Tetrachloroethene was also detected above SCOs for Residential Use in BH2 and BH3.

SEMI-VOLATILE ORGANIC COMPOUNDS

No SVOCs were detected above commonly applied criteria in the two soil samples collected and submitted for laboratory analysis.

Groundwater

VOLATILE ORGANIC COMPOUNDS

Four VOCs were detected at concentrations above the NYSDEC Groundwater Criteria (Class GA) in the samples collected and submitted for VOCs analysis. The following VOCs were detected in these samples at concentrations above the Groundwater Criteria (Class GA):

- Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in TPMW1
- Trans-1,2- Dichloroethene, Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in TPMW2
- Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in TPMW3
- Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in TPMW4
- Cis-1,2- Dichloroethene, Trichloroethene and Tetrachloroethene in TPMW5

SEMIVOLATILE ORGANIC COMPOUNDS

Four SVOCs were detected at estimated concentrations and slightly above the NYSDEC Groundwater Criteria (Class GA) in TPMW3. Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene and Benzo(a)pyrene were detected at estimated concentrations above the Groundwater Criteria (Class GA) in TPMW3.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Sample Location	Analytical Testing Performed	Potential Environmental Concerns
Soil		
BH1 (6-8 ft. bgs)	TCL VOCs	Dry Cleaning Operations
BH2 (10-12 ft. bgs)		
BH3 (2-4 ft. bgs)	TCL+ CP-51 VOCs, CP-51 SVOCs	Former Heating Oil UST and Dry Cleaning Operations
BH3 (12-14 ft. bgs)		
BH4 (8-10 ft. bgs)	TCL VOCs	Dry Cleaning Operations
BH5 (10-12 ft. bgs)		
Water		
TPMW1	TCL VOCs	Dry Cleaning Operations
TPMW2		
TPMW3	TCL+ CP-51 VOCs, CP-51 SVOCs	Former Heating Oil UST and Dry Cleaning Operations
TPMW4	TCL VOCs	Dry Cleaning Operations
TPMW5		

ft. bgs = feet below ground surface
TCL VOCs = Target Compound List volatile organic compounds via USEPA Test Method 8260
TCL+CP-51VOCs = Target Compound List + Commissioners Policy 51 volatile organic compounds via USEPA Test Method 8260
CP-51 SVOCs = Commissioners Policy 51 semi-volatile organic compounds via USEPA Test Method 8270

RESULTS OF FIELD INVESTIGATION

Five boreholes (BH1 through BH5) were completed in accessible areas of the subject property proximate to the environmental concerns. (See Figure 2.) A total of 35 soil samples were collected for geologic description. Fill material consisting of asphalt and sand was noted within test borings BH1 through BH5 to a maximum depth of approximately 1.5 ft. bgs. Generally, the native soils encountered consisted of varying mixtures of clay to the bottom of the test borings. Apparent groundwater was encountered in all boreholes between approximately 2.3 and 12.5 ft. bgs.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in all of the 35 soil samples collected. These elevated concentrations ranged from 1.3 parts per million (ppm) to 6,678 ppm (BH2, ~10-12 ft. bgs). Suspect petroleum-type odors were detected in soil samples collected from test boring BH3 between approximately 8 and 8.5 ft. bgs.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

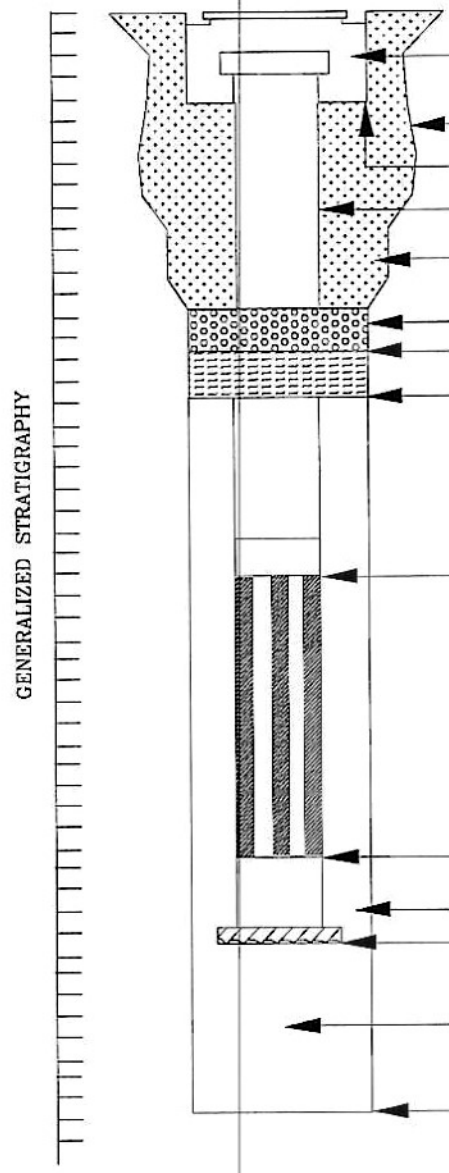
INVESTIGATION ANALYTICAL RESULTS

The soil and groundwater samples collected and analyzed detected the following analytes. The respective concentrations as well as commonly-applied regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

WELL CONSTRUCTION DETAIL

SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

PROJECT/LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	WELL No.	TPMW1/BH1
DATE COMPLETED:	3/6/19	SUPERVISED BY:	SK



REFERENCE POINT
Elevation/Depth: NA

SURFACE SEAL
Type/Depth: NA

DEPTH OF SURFACE CASING: NA

RISER PIPE Size/Type: 1.0 inch/Schedule 40 PVC

DIAMETER OF BOREHOLE: 2.2 inches

TYPE OF FILL: NA

TOP OF SEAL Elevation/Depth: 0.0 ft. bgs
TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK Elevation/Depth: 1.0 ft. bgs
FILTER PACK MATERIAL: #00N silica sand

TOP OF SCREEN Elevation/Depth: 5.2 ft. bgs
SCREEN SIZE/TYPE: 0.010 inch/Schedule 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 9.8 ft. bgs

BOTTOM OF FILTER PACK
Elevation/Depth: 10.0 ft. bgs

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 10.0 ft. bgs

TYPE OF FILLER
BELOW PLUGGED BLANK: Native soils

BOTTOM OF BOREHOLE
Elevation/Depth: 10.0 ft. bgs

NOTES

SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

SUBSURFACE LOG

PROJECT/ LOCATION: 627 Columbia Turnpike, East Greenbush, New York | PROJECT No. 191020.22

CLIENT: NBT Bank, N.A. | BORING/WELL No. BH5/TPMW5

DATE STARTED: 3/6/19 | DATE COMPLETED: 3/6/19 | RECORDED BY: AT

GROUNDWATER DEPTH WHILE DRILLING: ~4.9 ft. bgs. | AFTER COMPLETION: ~11.6 ft. bgs.

WEATHER: 30 °F, Sunny | DRILL RIG: Geoprobe | DRILLER: Core Down Drilling

DRILL SIZE/TYPE: Dual tube | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description
1	1.3	0-2	U	-	-	5	0- 0.3 ft. Asphalt
2	4.3	2-4	U	-	-	5	0.3-1.5 ft. Loose, moist, grey, gravelly, coarse to fine SAND (SW)
3	20.2	4-6	U	-	-	8	1.5-4.9 ft. Medium stiff, moist, brown, silty, low plasticity CLAY (CL)
4	18.3	6-8	U	-	-	12	4.9-15.0 ft. Soft, wet, brown, silty, medium plasticity CLAY (CL)
5	3.7	8-10	U	-	-	12	
6	27.5	10-12	U	-	-	24	
7	12.3	12-14	U	-	-	24	
8	5.1	14-15	U	-	-	12	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~1.5 ft. bgs

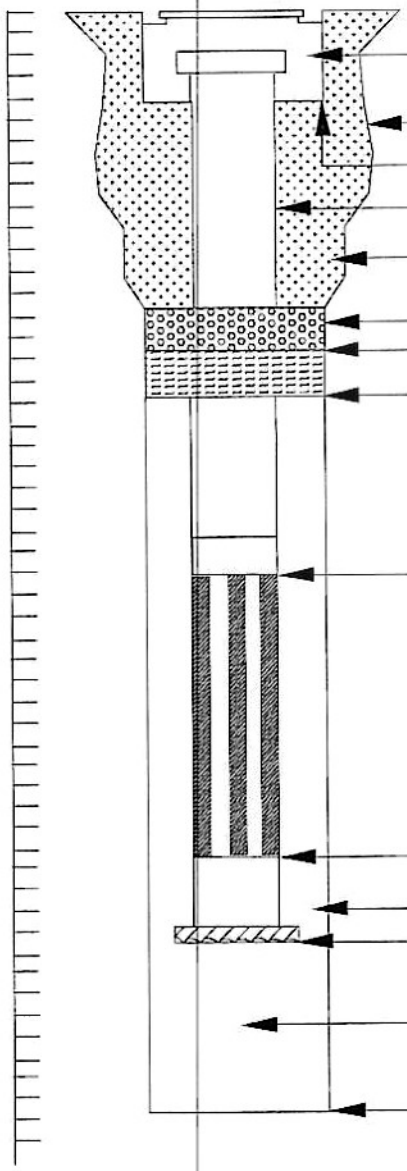
No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

WELL CONSTRUCTION DETAIL

SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

PROJECT/LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	WELL No.	TPMW3/BH3
DATE COMPLETED:	3/6/19	SUPERVISED BY:	SK



REFERENCE POINT
Elevation/Depth: NA

SURFACE SEAL
Type/Depth: NA

DEPTH OF SURFACE CASING: NA

RISER PIPE Size/Type: 1.0 inch/Schedule 40 PVC

DIAMETER OF BOREHOLE: 2.2 inches

TYPE OF FILL: NA

TOP OF SEAL Elevation/Depth: 0.0 ft. bgs
TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK Elevation/Depth: 1.0 ft. bgs
FILTER PACK MATERIAL: #00N silica sand

TOP OF SCREEN Elevation/Depth: 10.2 ft. bgs
SCREEN SIZE/TYPE: 0.010 inch/Schedule 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 14.8 ft. bgs

BOTTOM OF FILTER PACK
Elevation/Depth: 15.0 ft. bgs

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 15.0 ft. bgs

TYPE OF FILLER
BELOW PLUGGED BLANK: Native soils

BOTTOM OF BOREHOLE
Elevation/Depth: 15.0 ft. bgs

NOTES

Method Blank (MB)

(MB) R3390302-3 03/09/19 10:31

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Anthracene	U		0.600	6.00
Acenaphthene	U		0.600	6.00
Acenaphthylene	U		0.600	6.00
Benzo(a)anthracene	U		0.600	6.00
Benzo(a)pyrene	U		0.600	6.00
Benzo(b)fluoranthene	U		0.600	6.00
Benzo(g,h,i)perylene	U		0.600	6.00
Benzo(k)fluoranthene	U		0.600	6.00
Chrysene	U		0.600	6.00
Dibenz(a,h)anthracene	U		0.600	6.00
Fluoranthene	U		0.600	6.00
Fluorene	U		0.600	6.00
Indeno(1,2,3-cd)pyrene	U		0.600	6.00
Naphthalene	U		2.00	20.0
Phenanthrene	U		0.600	6.00
Pyrene	U		0.600	6.00
(S) Nitrobenzene-d5	*98.3*			*14.0-149*
(S) 2-Fluorobiphenyl	*97.5*			*34.0-125*
(S) p-Terphenyl-d14	*103*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390302-1 03/09/19 09:48 • (LCSD) R3390302-2 03/09/19 10:10

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	80.0	77.0	79.8	96.3	99.8	50.0-126			3.57	20
Acenaphthene	80.0	82.9	82.2	104	103	50.0-120			0.848	20
Acenaphthylene	80.0	87.2	85.5	109	107	50.0-120			1.97	20
Benzo(a)anthracene	80.0	81.0	78.0	101	97.5	45.0-120			3.77	20
Benzo(a)pyrene	80.0	66.3	59.6	82.9	74.5	42.0-120			10.6	20
Benzo(b)fluoranthene	80.0	83.5	70.6	104	88.3	42.0-121			16.7	20
Benzo(g,h,i)perylene	80.0	78.9	67.5	98.6	84.4	45.0-125			15.6	20
Benzo(k)fluoranthene	80.0	81.1	69.4	101	86.8	49.0-125			15.5	20
Chrysene	80.0	80.0	77.0	100	96.3	49.0-122			3.82	20
Dibenz(a,h)anthracene	80.0	84.3	66.3	105	82.9	47.0-125		J3	23.9	20
Fluoranthene	80.0	75.2	76.3	94.0	95.4	49.0-129			1.45	20
Fluorene	80.0	81.9	79.8	102	99.8	49.0-120			2.60	20
Indeno(1,2,3-cd)pyrene	80.0	79.8	62.6	99.8	78.3	46.0-125		J3	24.2	20
Naphthalene	80.0	79.5	76.6	99.4	95.8	50.0-120			3.72	20

Method Blank (MB)

(MB) R3390109-3 03/09/19 02:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0140	0.0500
Acenaphthene	U		0.0100	0.0500
Acenaphthylene	U		0.0120	0.0500
Benzo(a)anthracene	U		0.00410	0.0500
Benzo(a)pyrene	U		0.0116	0.0500
Benzo(b)fluoranthene	0.00423	J	0.00212	0.0500
Benzo(g,h,i)perylene	0.00303	J	0.00227	0.0500
Benzo(k)fluoranthene	U		0.0136	0.0500
Chrysene	U		0.0108	0.0500
Dibenz(a,h)anthracene	U		0.00396	0.0500
Fluoranthene	U		0.0157	0.0500
Fluorene	U		0.00850	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500
Naphthalene	0.0416	J	0.0198	0.250
Phenanthrene	U		0.00820	0.0500
Pyrene	U		0.0117	0.0500
(S) Nitrobenzene-d5	*133*			*31.0-160*
(S) 2-Fluorobiphenyl	*88.5*			*48.0-148*
(S) p-Terphenyl-d14	*106*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390109-1 03/09/19 02:02 • (LCSD) R3390109-2 03/09/19 02:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	2.00	2.29	2.46	115	123	67.0-150			7.16	20
Acenaphthene	2.00	2.04	2.21	102	111	65.0-138			8.00	20
Acenaphthylene	2.00	2.06	2.22	103	111	66.0-140			7.48	20
Benzo(a)anthracene	2.00	2.05	2.26	103	113	61.0-140			9.74	20
Benzo(a)pyrene	2.00	2.12	2.30	106	115	60.0-143			8.14	20
Benzo(b)fluoranthene	2.00	1.88	2.13	94.0	106	58.0-141			12.5	20
Benzo(g,h,i)perylene	2.00	2.32	2.50	116	125	52.0-153			7.47	20
Benzo(k)fluoranthene	2.00	2.11	2.18	105	109	58.0-148			3.26	20
Chrysene	2.00	2.02	2.23	101	111	64.0-144			9.88	20
Dibenz(a,h)anthracene	2.00	2.14	2.29	107	115	52.0-155			6.77	20
Fluoranthene	2.00	2.12	2.31	106	115	69.0-153			8.58	20
Fluorene	2.00	1.95	2.09	97.5	104	64.0-136			6.93	20
Indeno(1,2,3-cd)pyrene	2.00	2.19	2.35	109	117	54.0-153			7.05	20
Naphthalene	2.00	1.93	2.09	96.5	104	61.0-137			7.96	20

Method Blank (MB)

(MB) R3391512-2 03/13/19 23:31

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acetone	U		13.7	25.0
1,2,3-Trichlorobenzene	U		0.625	2.50
1,2,4-Trichlorobenzene	U		4.82	12.5
(S) Toluene-d8	*96.4*			*75.0-131*
(S) α,α,α-Trifluorotoluene	*81.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*83.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391512-1 03/13/19 22:04

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	625	865	138	10.0-160	
1,2,3-Trichlorobenzene	125	116	92.6	59.0-139	
1,2,4-Trichlorobenzene	125	105	84.1	62.0-137	
(S) Toluene-d8			*95.0*	*75.0-131*	
(S) α,α,α-Trifluorotoluene			*82.6*	*80.0-120*	
(S) 4-Bromofluorobenzene			*97.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS)

(LCS) R3391217-1 03/10/19 11:37

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroethane	125	182	146	61.0-134	J4
Chloroform	125	124	99.6	72.0-123	
Chloromethane	125	194	156	51.0-138	J4
1,2-Dibromo-3-Chloropropane	125	124	99.1	59.0-130	
1,2-Dibromoethane	125	140	112	74.0-128	
1,2-Dichlorobenzene	125	115	92.0	76.0-124	
1,3-Dichlorobenzene	125	115	92.0	76.0-125	
1,4-Dichlorobenzene	125	113	90.4	77.0-121	
Dichlorodifluoromethane	125	256	205	43.0-156	J4
1,1-Dichloroethane	125	116	93.0	70.0-127	
1,2-Dichloroethane	125	115	91.9	65.0-131	
1,1-Dichloroethene	125	129	103	65.0-131	
cis-1,2-Dichloroethene	125	120	95.6	73.0-125	
trans-1,2-Dichloroethene	125	123	98.7	71.0-125	
1,2-Dichloropropane	125	119	95.3	74.0-125	
cis-1,3-Dichloropropene	125	130	104	76.0-127	
trans-1,3-Dichloropropene	125	126	101	73.0-127	
Ethylbenzene	125	122	97.8	74.0-126	
2-Hexanone	625	615	98.4	54.0-147	
Isopropylbenzene	125	120	96.1	72.0-127	
p-Isopropyltoluene	125	101	80.4	72.0-133	
2-Butanone (MEK)	625	628	100	30.0-160	
Methylene Chloride	125	121	96.5	68.0-123	
4-Methyl-2-pentanone (MIBK)	625	566	90.6	56.0-143	
Methyl tert-butyl ether	125	115	92.1	66.0-132	
Naphthalene	125	112	89.8	59.0-130	
n-Propylbenzene	125	103	82.7	74.0-126	
Styrene	125	129	103	72.0-127	
1,1,2,2-Tetrachloroethane	125	119	94.8	68.0-128	
Tetrachloroethene	125	136	109	70.0-136	
Toluene	125	124	99.0	75.0-121	
1,1,2-Trichlorotrifluoroethane	125	122	97.4	61.0-139	
1,1,1-Trichloroethane	125	128	103	69.0-126	
1,1,2-Trichloroethane	125	136	109	78.0-123	
Trichloroethene	125	127	102	76.0-126	
Trichlorofluoromethane	125	161	129	61.0-142	
1,2,4-Trimethylbenzene	125	105	84.3	70.0-126	
1,3,5-Trimethylbenzene	125	107	85.8	73.0-127	
Vinyl chloride	125	189	151	63.0-134	J4
Xylenes, Total	375	368	98.1	72.0-127	

Cp
1 Tc
2 Ss
3 Cn
4 Sr
5 Qc
6 Gl
7 Al
8 Sc
9

Method Blank (MB)

(MB) R3391217-2 03/10/19 13:57

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Benzene	U		0.400	1.00
Bromodichloromethane	U		0.788	2.50
Bromochloromethane	U		1.13	5.00
Bromoform	U		5.98	25.0
Bromomethane	U		3.70	12.5
n-Butylbenzene	U		3.84	12.5
sec-Butylbenzene	U		2.53	12.5
tert-Butylbenzene	U		1.55	5.00
Carbon disulfide	U		4.06	12.5
Carbon tetrachloride	U		1.08	5.00
Chlorobenzene	U		0.573	2.50
Chlorodibromomethane	U		0.450	2.50
Chloroethane	U		1.08	5.00
Chloroform	U		0.415	2.50
Chloromethane	U		1.39	12.5
Cyclohexane	U		0.508	2.50
1,2-Dibromo-3-Chloropropane	U		5.10	25.0
1,2-Dibromoethane	U		0.525	2.50
1,2-Dichlorobenzene	U		1.45	5.00
1,3-Dichlorobenzene	U		1.70	5.00
1,4-Dichlorobenzene	U		1.97	5.00
Dichlorodifluoromethane	U		0.818	2.50
1,1-Dichloroethane	U		0.575	2.50
1,2-Dichloroethane	U		0.475	2.50
1,1-Dichloroethene	U		0.500	2.50
cis-1,2-Dichloroethene	U		0.690	2.50
trans-1,2-Dichloroethene	U		1.43	5.00
1,2-Dichloropropane	U		1.27	5.00
cis-1,3-Dichloropropene	U		0.678	2.50
trans-1,3-Dichloropropene	U		1.53	5.00
Ethylbenzene	U		0.530	2.50
2-Hexanone	U		10.0	25.0
Isopropylbenzene	U		0.863	2.50
p-Isopropyltoluene	U		2.33	5.00
2-Butanone (MEK)	U		12.5	25.0
Methyl Acetate	U		2.10	5.00
Methyl Cyclohexane	U		1.03	5.00
Methylene Chloride	U		6.64	25.0
4-Methyl-2-pentanone (MIBK)	U		10.0	25.0
Methyl tert-butyl ether	U		0.295	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391349-1 03/07/19 20:13 • (LCSD) R3391349-2 03/07/19 20:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2,3-Trichlorobenzene	25.0	27.4	27.1	110	108	50.0-138			1.01	20
1,2,4-Trichlorobenzene	25.0	26.5	27.5	106	110	57.0-137			3.57	20
1,1,1-Trichloroethane	25.0	25.5	25.6	102	102	73.0-124			0.137	20
1,1,2-Trichloroethane	25.0	25.5	25.9	102	103	80.0-120			1.65	20
Trichloroethene	25.0	26.0	26.4	104	106	78.0-124			1.35	20
Trichlorofluoromethane	25.0	24.5	24.8	98.0	99.3	59.0-147			1.34	20
1,2,4-Trimethylbenzene	25.0	25.6	25.3	102	101	76.0-121			0.946	20
1,3,5-Trimethylbenzene	25.0	25.9	25.9	104	104	76.0-122			0.142	20
Vinyl chloride	25.0	28.9	28.1	116	113	67.0-131			2.58	20
(S) α,α,α-Trifluorotoluene				*105*	*103*	*80.0-120*				
(S) Toluene-d8				*98.9*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*103*	*106*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*103*	*108*	*70.0-130*				

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	U		1.28	3.21	1	03/10/2019 17:35	WG1247937
m&p-Xylenes	U		1.92	5.13	1	03/10/2019 17:35	WG1247937
n-Butylbenzene	U		4.93	16.0	1	03/10/2019 17:35	WG1247937
sec-Butylbenzene	U		3.25	16.0	1	03/10/2019 17:35	WG1247937
tert-Butylbenzene	U		1.99	6.41	1	03/10/2019 17:35	WG1247937
p-Isopropyltoluene	U		2.99	6.41	1	03/10/2019 17:35	WG1247937
n-Propylbenzene	U		1.51	6.41	1	03/10/2019 17:35	WG1247937
1,2,4-Trimethylbenzene	U		1.49	6.41	1	03/10/2019 17:35	WG1247937
1,3,5-Trimethylbenzene	U		1.39	6.41	1	03/10/2019 17:35	WG1247937
(S) Toluene-d8	*97.5*			*75.0-131*		*03/10/2019 17:35*	WG1247937
(S) Toluene-d8	*95.8*			*75.0-131*		*03/14/2019 01:13*	WG1249338
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*03/10/2019 17:35*	WG1247937
(S) a,a,a-Trifluorotoluene	*79.9*	J2		*80.0-120*		*03/14/2019 01:13*	WG1249338
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*03/10/2019 17:35*	WG1247937
(S) 4-Bromofluorobenzene	*81.9*			*67.0-138*		*03/14/2019 01:13*	WG1249338
(S) 1,2-Dichloroethane-d4	*88.5*			*70.0-130*		*03/10/2019 17:35*	WG1247937
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/14/2019 01:13*	WG1249338

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Acenaphthene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Acenaphthylene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Benzo(a)anthracene	0.894	J	0.770	7.70	1	03/11/2019 05:26	WG1247522
Benzo(a)pyrene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Benzo(b)fluoranthene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Benzo(g,h,i)perylene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Benzo(k)fluoranthene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Chrysene	1.03	J	0.770	7.70	1	03/11/2019 05:26	WG1247522
Dibenz(a,h)anthracene	U	J3	0.770	7.70	1	03/11/2019 05:26	WG1247522
Fluoranthene	3.58	J	0.770	7.70	1	03/11/2019 05:26	WG1247522
Fluorene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Indeno(1,2,3-cd)pyrene	U	J3	0.770	7.70	1	03/11/2019 05:26	WG1247522
Naphthalene	U		2.57	25.7	1	03/11/2019 05:26	WG1247522
Phenanthrene	U		0.770	7.70	1	03/11/2019 05:26	WG1247522
Pyrene	2.33	J	0.770	7.70	1	03/11/2019 05:26	WG1247522
(S) Nitrobenzene-d5	*48.0*			*14.0-149*		*03/11/2019 05:26*	WG1247522
(S) 2-Fluorobiphenyl	*75.8*			*34.0-125*		*03/11/2019 05:26*	WG1247522
(S) p-Terphenyl-d14	*60.6*			*23.0-120*		*03/11/2019 05:26*	WG1247522

Method Blank (MB)

(MB) R3391492-1 03/13/19 11:26

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1076455-46 Original Sample (OS) • Duplicate (DUP)

(OS) L1076455-46 03/13/19 11:26 • (DUP) R3391492-3 03/13/19 11:26

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.9	86.7	1	0.277		10

Laboratory Control Sample (LCS)

(LCS) R3391492-2 03/13/19 11:26

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3391349-4 03/07/19 21:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,4-Trimethylbenzene	U		0.373	1.00
o-Xylene	U		0.341	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
m&p-Xylenes	U		0.719	2.00
Xylenes, Total	U		1.06	3.00
Vinyl chloride	U		0.259	1.00
(S) a,a,a-Trifluorotoluene	*109*			*80.0-120*
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391349-1 03/07/19 20:13 • (LCSD) R3391349-2 03/07/19 20:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromochloromethane	25.0	25.2	24.6	101	98.4	76.0-122			2.31	20
Benzene	25.0	24.7	25.2	98.9	101	70.0-123			2.05	20
Carbon disulfide	25.0	20.5	20.8	82.0	83.2	61.0-128			1.44	20
Acetone	125	119	118	95.1	94.2	19.0-160			0.926	27
Cyclohexane	25.0	24.8	25.3	99.1	101	71.0-124			2.05	20
Bromodichloromethane	25.0	26.1	26.6	104	107	75.0-120			1.96	20
Bromoform	25.0	23.0	23.5	92.0	94.1	68.0-132			2.25	20
n-Butylbenzene	25.0	26.1	26.9	104	108	73.0-125			3.04	20
sec-Butylbenzene	25.0	26.6	25.9	106	103	75.0-125			2.65	20
tert-Butylbenzene	25.0	26.0	25.1	104	100	76.0-124			3.54	20

SAMPLE SUMMARY

BH1 L1076453-01 Solid

Collected by: Anya True | Collected date/time: 03/06/19 08:45 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248132	1	03/11/19 16:56	03/11/19 17:09	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 08:45	03/10/19 15:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	1	03/06/19 08:45	03/14/19 00:14	ACG	Mt. Juliet, TN

BH2 L1076453-02 Solid

Collected by: Anya True | Collected date/time: 03/06/19 09:15 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248132	1	03/11/19 16:56	03/11/19 17:09	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 09:15	03/10/19 16:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	20	03/06/19 09:15	03/14/19 01:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249871	20	03/06/19 09:15	03/14/19 12:09	ACG	Mt. Juliet, TN

BH4 L1076453-03 Solid

Collected by: Anya True | Collected date/time: 03/06/19 10:45 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248132	1	03/11/19 16:56	03/11/19 17:09	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 10:45	03/10/19 16:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	1	03/06/19 10:45	03/14/19 00:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249871	1	03/06/19 10:45	03/14/19 11:30	ACG	Mt. Juliet, TN

BH5 L1076453-04 Solid

Collected by: Anya True | Collected date/time: 03/06/19 11:30 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1249212	1	03/13/19 11:15	03/13/19 11:26	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 11:30	03/10/19 16:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	1	03/06/19 11:30	03/14/19 00:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249871	1	03/06/19 11:30	03/14/19 11:49	ACG	Mt. Juliet, TN

TPMW1 L1076453-05 GW

Collected by: Anya True | Collected date/time: 03/06/19 12:40 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1246980	1	03/08/19 03:17	03/08/19 03:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249582	100	03/14/19 12:55	03/14/19 12:55	ADM	Mt. Juliet, TN

TPMW2 L1076453-06 GW

Collected by: Anya True | Collected date/time: 03/06/19 13:15 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1246980	50	03/08/19 03:37	03/08/19 03:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249582	5000	03/14/19 13:16	03/14/19 13:16	ADM	Mt. Juliet, TN

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

March 15, 2019

Lender Consulting Services - NY

Sample Delivery Group:	L1076453
Samples Received:	03/07/2019
Project Number:	19H681.50
Description:	627 Columbia Turnpike - East Greenbush, NY

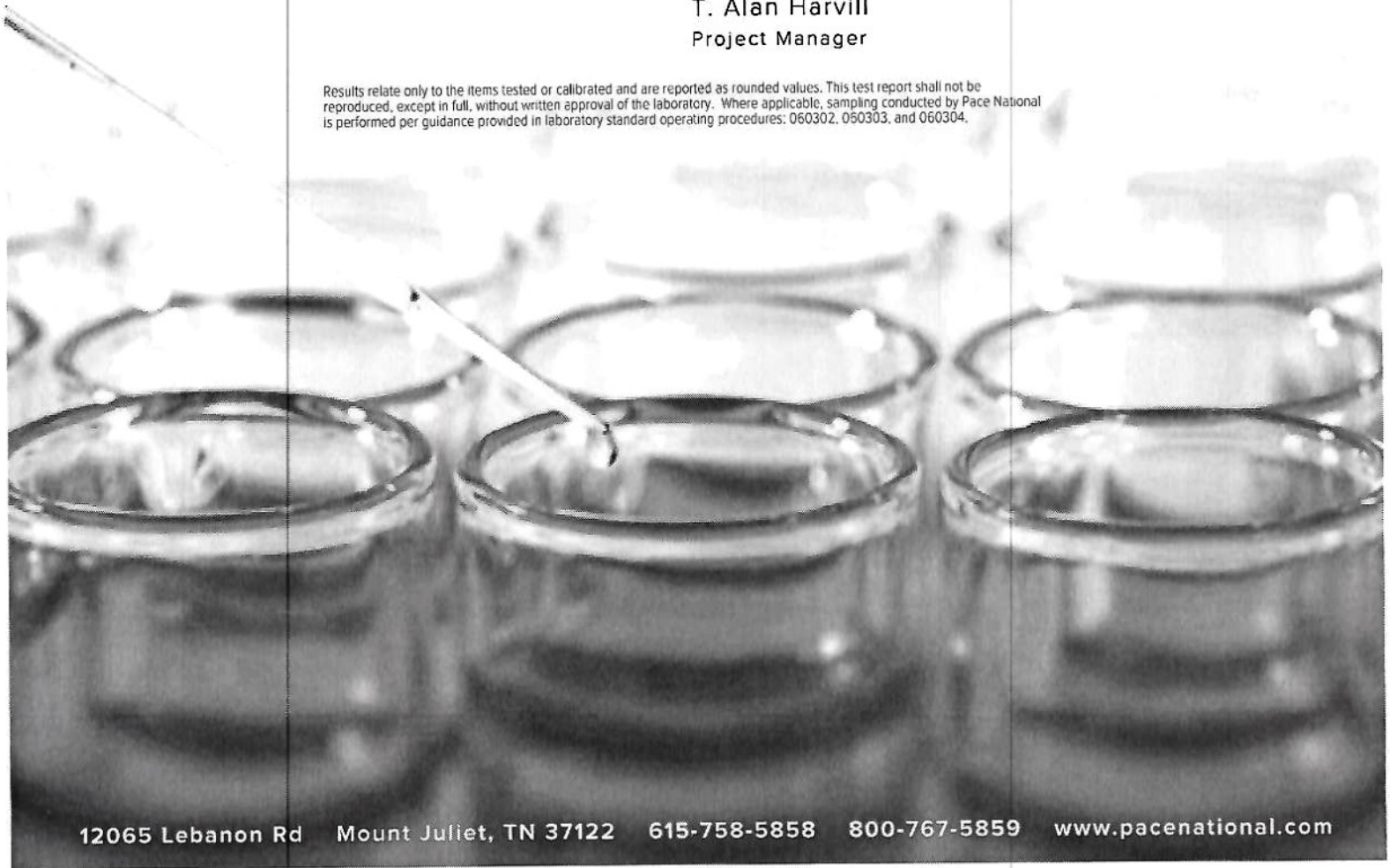
Report To:

Mr. Doug Reid
40 La Riviere Dr., Ste. 120
Buffalo, NY 14202

Entire Report Reviewed By:

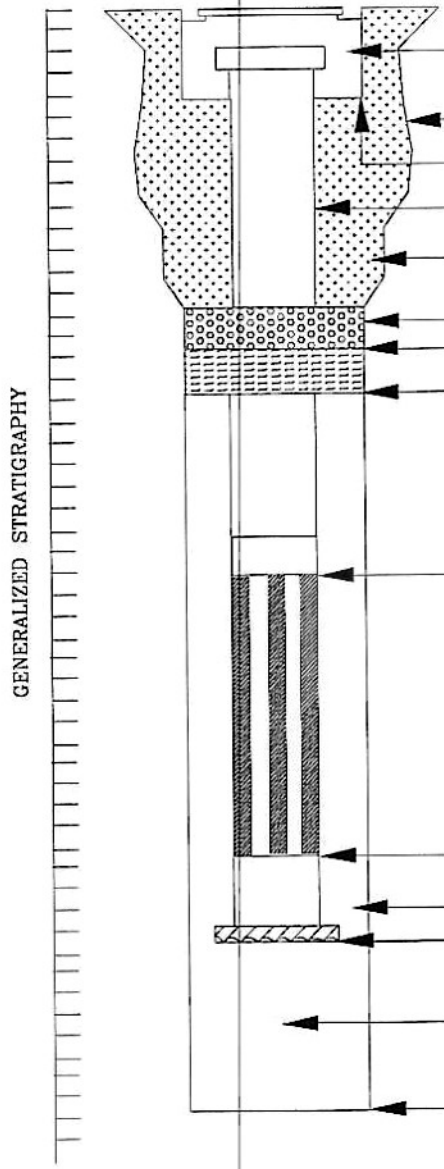
T. Alan Harvill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	WELL No.	TPMW5/BH5
DATE COMPLETED:	3/6/19	SUPERVISED BY:	SK



REFERENCE POINT
Elevation/Depth: NA

SURFACE SEAL
Type/Depth: NA

DEPTH OF SURFACE CASING: NA

RISER PIPE Size/Type: 1.0 inch/Schedule 40 PVC

DIAMETER OF BOREHOLE: 2.2 inches

TYPE OF FILL: NA

TOP OF SEAL Elevation/Depth: 0.0 ft. bgs
TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK Elevation/Depth: 1.0 ft. bgs
FILTER PACK MATERIAL: #00N silica sand

TOP OF SCREEN Elevation/Depth: 10.2 ft. bgs
SCREEN SIZE/TYPE: 0.010 inch/Schedule 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 14.8 ft. bgs

BOTTOM OF FILTER PACK
Elevation/Depth: 15.0 ft. bgs

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 15.0 ft. bgs

TYPE OF FILLER
BELOW PLUGGED BLANK: Native soils

BOTTOM OF BOREHOLE
Elevation/Depth: 15.0 ft. bgs

NOTES

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*03/14/2019 12:55*	WG1249582
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/08/2019 03:17*	WG1246980
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/14/2019 12:55*	WG1249582

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Xylenes, Total	U		6.49	8.82	1	03/10/2019 16:50	WG1247937
(S) Toluene-d8	*98.1*			*75.0-131*		*03/10/2019 16:50*	WG1247937
(S) Toluene-d8	*96.6*			*75.0-131*		*03/14/2019 00:54*	WG1249338
(S) Toluene-d8	*112*			*75.0-131*		*03/14/2019 11:49*	WG1249871
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*03/10/2019 16:50*	WG1247937
(S) a,a,a-Trifluorotoluene	*79.2*	J2		*80.0-120*		*03/14/2019 00:54*	WG1249338
(S) a,a,a-Trifluorotoluene	*112*			*80.0-120*		*03/14/2019 11:49*	WG1249871
(S) 4-Bromofluorobenzene	*90.5*			*67.0-138*		*03/10/2019 16:50*	WG1247937
(S) 4-Bromofluorobenzene	*81.5*			*67.0-138*		*03/14/2019 00:54*	WG1249338
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*03/14/2019 11:49*	WG1249871
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*03/10/2019 16:50*	WG1247937
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/14/2019 00:54*	WG1249338
(S) 1,2-Dichloroethane-d4	*88.7*			*70.0-130*		*03/14/2019 11:49*	WG1249871

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

BH4

Collected date/time: 03/06/19 10:45

SAMPLE RESULTS - 03

L1076453

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Xylenes, Total	U		6.48	8.82	1	03/10/2019 16:28	WG1247937
(S) Toluene-d8	*102*			*75.0-131*		*03/10/2019 16:28*	WG1247937
(S) Toluene-d8	*94.4*			*75.0-131*		*03/14/2019 00:34*	WG1249338
(S) Toluene-d8	*109*			*75.0-131*		*03/14/2019 11:30*	WG1249871
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*		*03/10/2019 16:28*	WG1247937
(S) a,a,a-Trifluorotoluene	*81.0*			*80.0-120*		*03/14/2019 00:34*	WG1249338
(S) a,a,a-Trifluorotoluene	*115*			*80.0-120*		*03/14/2019 11:30*	WG1249871
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*03/10/2019 16:28*	WG1247937
(S) 4-Bromofluorobenzene	*86.8*			*67.0-138*		*03/14/2019 00:34*	WG1249338
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*03/14/2019 11:30*	WG1249871
(S) 1,2-Dichloroethane-d4	*86.0*			*70.0-130*		*03/10/2019 16:28*	WG1247937
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/14/2019 00:34*	WG1249338
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*03/14/2019 11:30*	WG1249871

Cp
Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Xylenes, Total	U		6.10	8.30	1	03/10/2019 16:05	WG1247937
(S) Toluene-d8	*95.4*			*75.0-131*		*03/10/2019 16:05*	WG1247937
(S) Toluene-d8	*89.7*			*75.0-131*		*03/14/2019 01:33*	WG1249338
(S) Toluene-d8	*108*			*75.0-131*		*03/14/2019 12:09*	WG1249871
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*03/10/2019 16:05*	WG1247937
(S) a,a,a-Trifluorotoluene	*84.4*			*80.0-120*		*03/14/2019 01:33*	WG1249338
(S) a,a,a-Trifluorotoluene	*116*			*80.0-120*		*03/14/2019 12:09*	WG1249871
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*03/10/2019 16:05*	WG1247937
(S) 4-Bromofluorobenzene	*84.4*			*67.0-138*		*03/14/2019 01:33*	WG1249338
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*03/14/2019 12:09*	WG1249871
(S) 1,2-Dichloroethane-d4	*87.3*			*70.0-130*		*03/10/2019 16:05*	WG1247937
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/14/2019 01:33*	WG1249338
(S) 1,2-Dichloroethane-d4	*88.2*			*70.0-130*		*03/14/2019 12:09*	WG1249871

Cp
1 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Xylenes, Total	U		6.30	8.56	1	03/10/2019 15:43	WG1247937
(S) Toluene-d8	*102*			*75.0-131*		*03/10/2019 15:43*	WG1247937
(S) Toluene-d8	*95.4*			*75.0-131*		*03/14/2019 00:14*	WG1249338
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*03/10/2019 15:43*	WG1247937
(S) a,a,a-Trifluorotoluene	*81.0*			*80.0-120*		*03/14/2019 00:14*	WG1249338
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*03/10/2019 15:43*	WG1247937
(S) 4-Bromofluorobenzene	*88.4*			*67.0-138*		*03/14/2019 00:14*	WG1249338
(S) 1,2-Dichloroethane-d4	*86.1*			*70.0-130*		*03/10/2019 15:43*	WG1247937
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/14/2019 00:14*	WG1249338

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*96.0*			*77.0-126*		*03/14/2019 13:56*	WG1249582
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/08/2019 04:17*	WG1246980
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/14/2019 13:56*	WG1249582

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*96.7*			*77.0-126*		*03/14/2019 13:36*	WG1249582
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/08/2019 03:57*	WG1246980
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/14/2019 13:36*	WG1249582

Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*03/14/2019 13:16*	WG1249582
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/08/2019 03:37*	WG1246980
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/14/2019 13:16*	WG1249582

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Propylbenzene	U		0.349	1.00	1	03/08/2019 04:38	WG1246980
1,2,4-Trimethylbenzene	U		0.373	1.00	1	03/08/2019 04:38	WG1246980
1,3,5-Trimethylbenzene	U		0.387	1.00	1	03/08/2019 04:38	WG1246980
(S) Toluene-d8	*103*			*80.0-120*		*03/08/2019 04:38*	WG1246980
(S) Toluene-d8	*104*			*80.0-120*		*03/14/2019 14:16*	WG1249582
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*03/08/2019 04:38*	WG1246980
(S) a,a,a-Trifluorotoluene	*96.4*			*80.0-120*		*03/14/2019 14:16*	WG1249582
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/08/2019 04:38*	WG1246980
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*03/14/2019 14:16*	WG1249582
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*03/08/2019 04:38*	WG1246980
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/14/2019 14:16*	WG1249582

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/09/2019 03:08	WG1246940
Acenaphthene	0.125		0.0100	0.0500	1	03/09/2019 03:08	WG1246940
Acenaphthylene	U		0.0120	0.0500	1	03/09/2019 03:08	WG1246940
Benzo(a)anthracene	0.0217	J	0.00410	0.0500	1	03/09/2019 03:08	WG1246940
Benzo(a)pyrene	0.0150	J	0.0116	0.0500	1	03/09/2019 03:08	WG1246940
Benzo(b)fluoranthene	0.0261	B J	0.00212	0.0500	1	03/09/2019 03:08	WG1246940
Benzo(g,h,i)perylene	0.0167	B J	0.00227	0.0500	1	03/09/2019 03:08	WG1246940
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/09/2019 03:08	WG1246940
Chrysene	0.0279	J	0.0108	0.0500	1	03/09/2019 03:08	WG1246940
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/09/2019 03:08	WG1246940
Fluoranthene	0.209		0.0157	0.0500	1	03/09/2019 03:08	WG1246940
Fluorene	0.0720		0.00850	0.0500	1	03/09/2019 03:08	WG1246940
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/09/2019 03:08	WG1246940
Naphthalene	0.0573	B J	0.0198	0.250	1	03/09/2019 03:08	WG1246940
Phenanthrene	0.551		0.00820	0.0500	1	03/09/2019 03:08	WG1246940
Pyrene	0.185		0.0117	0.0500	1	03/09/2019 03:08	WG1246940
(S) Nitrobenzene-d5	*140*			*31.0-160*		*03/09/2019 03:08*	WG1246940
(S) 2-Fluorobiphenyl	*80.5*			*48.0-148*		*03/09/2019 03:08*	WG1246940
(S) p-Terphenyl-d14	*117*			*37.0-146*		*03/09/2019 03:08*	WG1246940

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
o-Xylene	U		1.18	2.96	1	03/10/2019 17:12	WG1247937
m&p-Xylenes	U		1.78	4.74	1	03/10/2019 17:12	WG1247937
n-Butylbenzene	U		4.55	14.8	1	03/10/2019 17:12	WG1247937
sec-Butylbenzene	U		3.00	14.8	1	03/10/2019 17:12	WG1247937
tert-Butylbenzene	U		1.84	5.92	1	03/10/2019 17:12	WG1247937
p-Isopropyltoluene	U		2.76	5.92	1	03/10/2019 17:12	WG1247937
n-Propylbenzene	U		1.40	5.92	1	03/10/2019 17:12	WG1247937
1,2,4-Trimethylbenzene	U		1.37	5.92	1	03/10/2019 17:12	WG1247937
1,3,5-Trimethylbenzene	U		1.28	5.92	1	03/10/2019 17:12	WG1247937
(S) Toluene-d8	*102*			*75.0-131*		*03/10/2019 17:12*	WG1247937
(S) Toluene-d8	*92.1*			*75.0-131*		*03/14/2019 01:53*	WG1249338
(S) Toluene-d8	*110*			*75.0-131*		*03/14/2019 12:28*	WG1249871
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*03/10/2019 17:12*	WG1247937
(S) a,a,a-Trifluorotoluene	*83.6*			*80.0-120*		*03/14/2019 01:53*	WG1249338
(S) a,a,a-Trifluorotoluene	*116*			*80.0-120*		*03/14/2019 12:28*	WG1249871
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*03/10/2019 17:12*	WG1247937
(S) 4-Bromofluorobenzene	*81.9*			*67.0-138*		*03/14/2019 01:53*	WG1249338
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*03/14/2019 12:28*	WG1249871
(S) 1,2-Dichloroethane-d4	*87.4*			*70.0-130*		*03/10/2019 17:12*	WG1247937
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/14/2019 01:53*	WG1249338
(S) 1,2-Dichloroethane-d4	*89.7*			*70.0-130*		*03/14/2019 12:28*	WG1249871

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Anthracene	47.5		3.55	35.5	5	03/11/2019 06:48	WG1247522
Acenaphthene	25.7	J	3.55	35.5	5	03/11/2019 06:48	WG1247522
Acenaphthylene	U		3.55	35.5	5	03/11/2019 06:48	WG1247522
Benzo(a)anthracene	88.8		3.55	35.5	5	03/11/2019 06:48	WG1247522
Benzo(a)pyrene	70.1		3.55	35.5	5	03/11/2019 06:48	WG1247522
Benzo(b)fluoranthene	105		3.55	35.5	5	03/11/2019 06:48	WG1247522
Benzo(g,h,i)perylene	64.8		3.55	35.5	5	03/11/2019 06:48	WG1247522
Benzo(k)fluoranthene	38.5		3.55	35.5	5	03/11/2019 06:48	WG1247522
Chrysene	120		3.55	35.5	5	03/11/2019 06:48	WG1247522
Dibenz(a,h)anthracene	U	J3	3.55	35.5	5	03/11/2019 06:48	WG1247522
Fluoranthene	439		3.55	35.5	5	03/11/2019 06:48	WG1247522
Fluorene	28.7	J	3.55	35.5	5	03/11/2019 06:48	WG1247522
Indeno(1,2,3-cd)pyrene	48.9	J3	3.55	35.5	5	03/11/2019 06:48	WG1247522
Naphthalene	U		11.8	118	5	03/11/2019 06:48	WG1247522
Phenanthrene	351		3.55	35.5	5	03/11/2019 06:48	WG1247522
Pyrene	274		3.55	35.5	5	03/11/2019 06:48	WG1247522
(S) Nitrobenzene-d5	*65.7*			*14.0-149*		*03/11/2019 06:48*	WG1247522
(S) 2-Fluorobiphenyl	*59.6*			*34.0-125*		*03/11/2019 06:48*	WG1247522
(S) p-Terphenyl-d14	*53.2*			*23.0-120*		*03/11/2019 06:48*	WG1247522

SITE LOCATION MAP

SUBSURFACE INVESTIGATION MAP

SUBSURFACE LOG

SIG — SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

PROJECT/ LOCATION: 627 Columbia Turnpike, East Greenbush, New York | PROJECT No. 191020.22

CLIENT: NBT Bank, N.A. | BORING/WELL No. BH2/TPMW2

DATE STARTED: 3/6/19 | DATE COMPLETED: 3/6/19 | RECORDED BY: AT

GROUNDWATER DEPTH WHILE DRILLING: ~5.0 ft. bgs. | AFTER COMPLETION: ~2.3 ft. bgs.

WEATHER: 30 °F, Sunny | DRILL RIG: Geoprobe | DRILLER: Core Down Drilling

DRILL SIZE/TYPE: Dual tube | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description
1	NA	0.3-2	U	-	-	0	0- 0.3 ft. Asphalt
2	NA	2-4	U	-	-	0	0.3-5.0 ft. No recovery
3	80.8	4-6	U	-	-	12	5.0-15.0 ft. Soft, wet, brown, silty, medium plasticity CLAY (CL)
4	117.2	6-8	U	-	-	24	
5	156.8	8-10	U	-	-	24	
6	6,678	10-12	U	-	-	24	
7	3,176	12-14	U	-	-	24	
8	2,081	14-15	U	-	-	12	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~ 0.3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

SUBSURFACE LOGS

SOIL TESTING RESULTS

VOCs by USEPA SW-846 Method 8260

Sample ID	BH1	BH2	BH3	BH3	BH4	BH5	CP-51 Soil Cleanup Levels	Part 375 (Unrestricted) Soil Cleanup Objectives	Part 375 (Residential) Soil Cleanup Objectives	Part 375 (Residential Restricted) Soil Cleanup Objectives	Part 375 (Commercial) Soil Cleanup Objectives	Part 375 (Industrial) Soil Cleanup Objectives
Date Sampled	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019						
Sample Depth	6-8 ft. bgs	10-12 ft. bgs	2-4 ft. bgs	12-14 ft. bgs	8-10 ft. bgs	10-12 ft. bgs						
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
1,1- Dichloroethene	<0.659	4.08	<0.592	<0.641	<0.678	<0.679	NL	330	100,000	100,000	500,000	1,000,000
Acetone	<18.0	449 J	<325	<17.6	<18.6	<18.6	NL	50	100,000	100,000	500,000	1,000,000
Methylene chloride	8.86 J	<8.48	<7.87	<8.52	<9.01	9.38 J	NL	50	51,000	100,000	500,000	1,000,000
trans-1,2-Dichloroethene	<1.88	10.4	17.6	<183	<1.94	<1.94	NL	190	100,000	100,000	500,000	1,000,000
Methyl Acetate	<2.77	<2.68	5.56 J	<2.69	<2.85	<2.85	NL	NL	NL	NL	NL	NL
2- Butanone	25.6 J	24.8 J	17.0 J	27.3 J	26.4 J	<17.0	NL	120	100,000	100,000	500,000	1,000,000
Cis-1,2- Dichloroethene	31.1	2,990	255	22.5	64.6	<0.937	NL	250	59,000	100,000	500,000	1,000,000
Chloroform	<0.547	<0.530	4.31	1.52 J	<0.563	<0.563	NL	370	10,000	49,000	350,000	700,000
Trichloroethene	7.98	692	338	15.1	7.03	<0.543	NL	470	10,000	21,000	200,000	400,000
Toluene	<1.65	2.37 J	<1.48	<1.60	<1.70	<1.70	700	700	100,000	100,000	500,000	1,000,000
Tetrachloroethene	507	15,500	13,300	935	143	11.0	NL	1,300	5,500	19,000	150,000	300,000
Isopropylbenzene	<1.14	1.43 J	<1.02	<1.11	<1.17	<1.17	2,300	NL	NL	NL	NL	NL
Naphthalene	4.66 J	<3.98	<3.70	<4.00	<4.23	<4.24	12,000	12,000	100,000	100,000	500,000	1,000,000

SVOCs by USEPA SW-846 Method 8270

Sample ID	BH1	BH2	BH3	BH3	BH4	BH5	CP-51 Soil Cleanup Levels	Part 375 (Unrestricted) Soil Cleanup Objectives	Part 375 (Residential) Soil Cleanup Objectives	Part 375 (Residential Restricted) Soil Cleanup Objectives	Part 375 (Commercial) Soil Cleanup Objectives	Part 375 (Industrial) Soil Cleanup Objectives
Date Sampled	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019						
Sample Depth	6-8 ft. bgs	10-12 ft. bgs	2-4 ft. bgs	12-14 ft. bgs	8-10 ft. bgs	10-12 ft. bgs						
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Naphthalene	NA	NA	<11.8	<2.57	NA	NA	12,000	12,000	100,000	100,000	500,000	1,000,000
Acenaphthene	NA	NA	25.7 J	<0.770	NA	NA	20,000	20,000	100,000	100,000	500,000	1,000,000
Fluorene	NA	NA	28.7 J	<0.770	NA	NA	30,000	30,000	100,000	100,000	500,000	1,000,000
Phenanthrene	NA	NA	351	<0.770	NA	NA	100,000	100,000	100,000	100,000	500,000	1,000,000
Anthracene	NA	NA	47.5	<0.770	NA	NA	100,000	100,000	100,000	100,000	500,000	1,000,000
Fluoranthene	NA	NA	439	3.58 J	NA	NA	100,000	100,000	100,000	100,000	500,000	1,000,000
Pyrene	NA	NA	274	2.33 J	NA	NA	100,000	100,000	100,000	100,000	500,000	1,000,000
Benzo(a)anthracene	NA	NA	88.8	0.894 J	NA	NA	1,000	1,000	1,000	1,000	5,600	11,000
Chrysene	NA	NA	120	1.03	NA	NA	1,000	1,000	1,000	3,900	56,000	110,000
Benzo(b)fluoranthene	NA	NA	105	<0.770	NA	NA	1,000	1,000	1,000	1,000	5,600	11,000
Benzo(k)fluoranthene	NA	NA	38.5	<0.770	NA	NA	800	800	1,000	3,900	56,000	110,000
Benzo(a)pyrene	NA	NA	70.1	<0.770	NA	NA	1,000	1,000	1,000	1,000	1,000	1,100
Indeno (1,2,3-cd) pyrene	NA	NA	48.9	<0.770	NA	NA	500	500	500	500	5,600	11,000
Benzo(g,h,i)perylene	NA	NA	64.8	<0.770	NA	NA	100,000	100,000	100,000	100,000	500,000	1,000,000

µg/kg = micrograms per kilogram
ft. bgs = feet below ground surface
NL = Not Listed
J = indicates an estimated value
Part 375 Soil Cleanup Objectives = New York State Department of Environmental Conservation 6 NYCRR Part 375 Environmental Remediation Programs, December 14, 2006 (375-6.8, Soil Cleanup Objective Tables)
CP-51 Soil Cleanup Levels = CP-51 Soil Cleanup Guidance October 21, 2010 (Table 3, Soil Cleanup Levels for Gasoline Contaminated Soil)
= Analyte that is detected above the Part 375 (Unrestricted) Soil Cleanup Objectives
Bold = Analyte detected above Part 375 (Residential) Soil Cleanup Objectives

SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

SUBSURFACE INVESTIGATIONS AND GEOLOGY, D.P.C.
PO Box 191
Hamburg, New York 14075-9998

Tel: 716-374-0715

March 18, 2019

Dan Dickinson
NBT Bank, N.A.
433 State Street Suite 130
Schenectady, NY 12305

Re: Limited and Focused Subsurface Investigation
Crown Cleaners
627 Columbia Turnpike, East Greenbush, New York
SIG Project Number 191020.22
(Related to LCS Project #19H681.50 & 19H681.24)

Dear Mr. Dickinson:

BACKGROUND
At your request, Subsurface Investigations and Geology, D.P.C. (SIG) completed a limited and focused subsurface soil and groundwater investigation, at Crown Cleaners, located at 627 Columbia Turnpike, East Greenbush, New York (See Figure 1). The subject property measures approximately 0.59 acres and is occupied by one commercial structure. The subject property is located in a moderately developed commercial and residential area. The topography of the site is generally level at grade. Based on the regional topography, groundwater is anticipated to flow in a south west direction.

This investigation was recommended based on the information gathered by Lender Consulting Services, Inc. (LCS) during an Enhanced Transaction Screen Assessment for the above-referenced property, dated February 19, 2019. Through that report, the following potential environmental conditions (PECs) were identified warranting intrusive study at that time.

- According to city directories, the site contact, and regulatory records, the subject property has been utilized as a dry cleaner since at least 1969.
- A 500-gallon heating oil underground storage tank (UST) was reportedly removed from the subject property in an area that is now covered by a building addition without closure documentation. 2

INTRODUCTION
The purpose of this study was to better assess the environmental quality of on-site soils and groundwater in accessible locations of the subject property due to the PECs identified above. Soil samples were collected for stratigraphic characterization and field monitoring. Temporary groundwater monitoring wells (TPMWs) were installed within all test borings where groundwater was encountered. Select soil and groundwater samples were submitted for laboratory analysis to supplement field observations.

The work conducted was completed in general accordance with SIGs proposal dated February 20, 2019, with the following exception. SIG had originally anticipated on submitting five soil and five groundwater samples for laboratory analysis. As a result of field observations, one additional soil sample was submitted for laboratory analysis with the Client's approval.

The following is a summary of the methods and results of the investigation.

Invoice

Date	Invoice
3/18/2019	11

Subsurface Investigations Geology, DPC

PO Box 191
NY 14075

Bill To

NBT Bank, N.A.
Dan Dickinson
433 State St. Suite 130
Schenectady, NY 12305

Project Information

Crown Cleaners (Saumik Patel)

627 Columbia Turnpike

Schenectady, Ny 12305

Description	Amount
Phase II Environmental Services	7,725.00
Tasks #1 & 2 - Limited and Focused Subsurface Investigation and Summary Report	
Additional Analytical Testing	220.00
Pass Through Fees	166.48

Please make remittances to:
SIG, DPC
PO Box 191
Hamburg, NY 14075

Note: If remittance is to be sent via overnight carrier, send to:
SIG, DPC
c/o Lender Consulting Services, Inc.
40 LaRiviere Dr, Suite 120
Buffalo, NY 14202

Total $8,111.48

SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

Limited and Focused Subsurface Investigation Report for the Property Identified as:

Crown Cleaners
627 Columbia Turnpike
East Greenbush, New York

SIG PROJECT # 191020.22
(RELATED TO LCS PROJECT #19H681.50 & 19H681.24)

MARCH 18, 2019

PO Box 191, Hamburg, New York 14075-9998

716-374-0715

GROUNDWATER TESTING RESULTS

VOC by USEPA-846 Method 8260

Sample ID	TPMW1	TPMW2	TPMW3	TPMW4	TPMW5	NYSDEC Groundwater Criteria (Class GA)
Date Sampled	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trans-1,2- Dichloroethene	1.03	41.3 J	<0.396	<1.98	<1.98	5
Cis-1,2- Dichloroethene	154	8,490	16.0	128	130	5
Chloroform	2.54 J	<16.2	4.68 J	2.47 J	2.72 J	7
Trichloroethene	41.5	2,310	19.9	9.34	10.4	5
Tetrachloroethene	1,860	87,900	135	521	577	5

SVOCs by USEPA-846 Method 8270

Sample ID	TPMW1	TPMW2	TPMW3	TPMW4	TPMW5	NYSDEC Groundwater Criteria (Class GA)
Date Sampled	3/6/2019	3/6/2019	3/6/2019	3/6/2019	3/6/2019	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/l
Naphthalene	NA	NA	0.0573 B J	NA	NA	10
Acenaphthene	NA	NA	0.125	NA	NA	20
Phenanthrene	NA	NA	0.551	NA	NA	50
Pyrene	NA	NA	0.185	NA	NA	50
Benzo(a)anthracene	NA	NA	0.0217 J	NA	NA	0.002
Chrysene	NA	NA	0.0279 J	NA	NA	0.002
Benzo(b)fluoranthene	NA	NA	0.0261 B J	NA	NA	0.002
Benzo(a)pyrene	NA	NA	0.0150 J	NA	NA	ND
Benz(g,h,i)perylene	NA	NA	0.0167 B J	NA	NA	NL

µg/L = micrograms per liter
NL = Not Listed
J = Indicates an estimated value.
U = Indicates compound was analyzed for, but not detected at or above the reporting limit.
ND = A non-detectable concentration by the approved analytical methods referenced in section 700.3
NYSDEC Groundwater Criteria (Class GA) = 6 NYCRR Part 703 (June 1998 and April 2000 Addendum)
= Analyte detected above the NYSDEC Groundwater Criteria.

SUBSURFACE LOG

SIG — SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

PROJECT/ LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	BORING/WELL No.	BH1/TPMW1
DATE STARTED:	3/6/19	DATE COMPLETED:	3/6/19
RECORDED BY:	AT		
GROUNDWATER DEPTH WHILE DRILLING:	~4.5 ft. bgs.	AFTER COMPLETION:	~6.1 ft. bgs.
WEATHER:	30 °F, Sunny	DRILL RIG:	Geoprobe
DRILLER:	Core Down Drilling		
DRILL SIZE/TYPE:	Dual tube	SAMPLE HAMMER: WEIGHT	NA
FALL	NA		

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description
1	2.7	0.3-2	U	-	-	7	0- 0.3 ft. Asphalt
2	5.2	2-4	U	-	-	7	0.3-1.2 ft. Loose, moist, brown, gravelly, coarse to fine SAND (SW)
3	11.2	4-6	U	-	-	8	1.2-4.5 ft. Medium stiff, moist, brown, silty, low plasticity CLAY (CL)
4	65.9	6-8	U	-	-	9	4.5-10.0 ft. Soft, wet, brown, silty, medium plasticity CLAY (CL)
5	15.8	8-10	U	-	-	9	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~ 1.2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

SUBSURFACE LOG

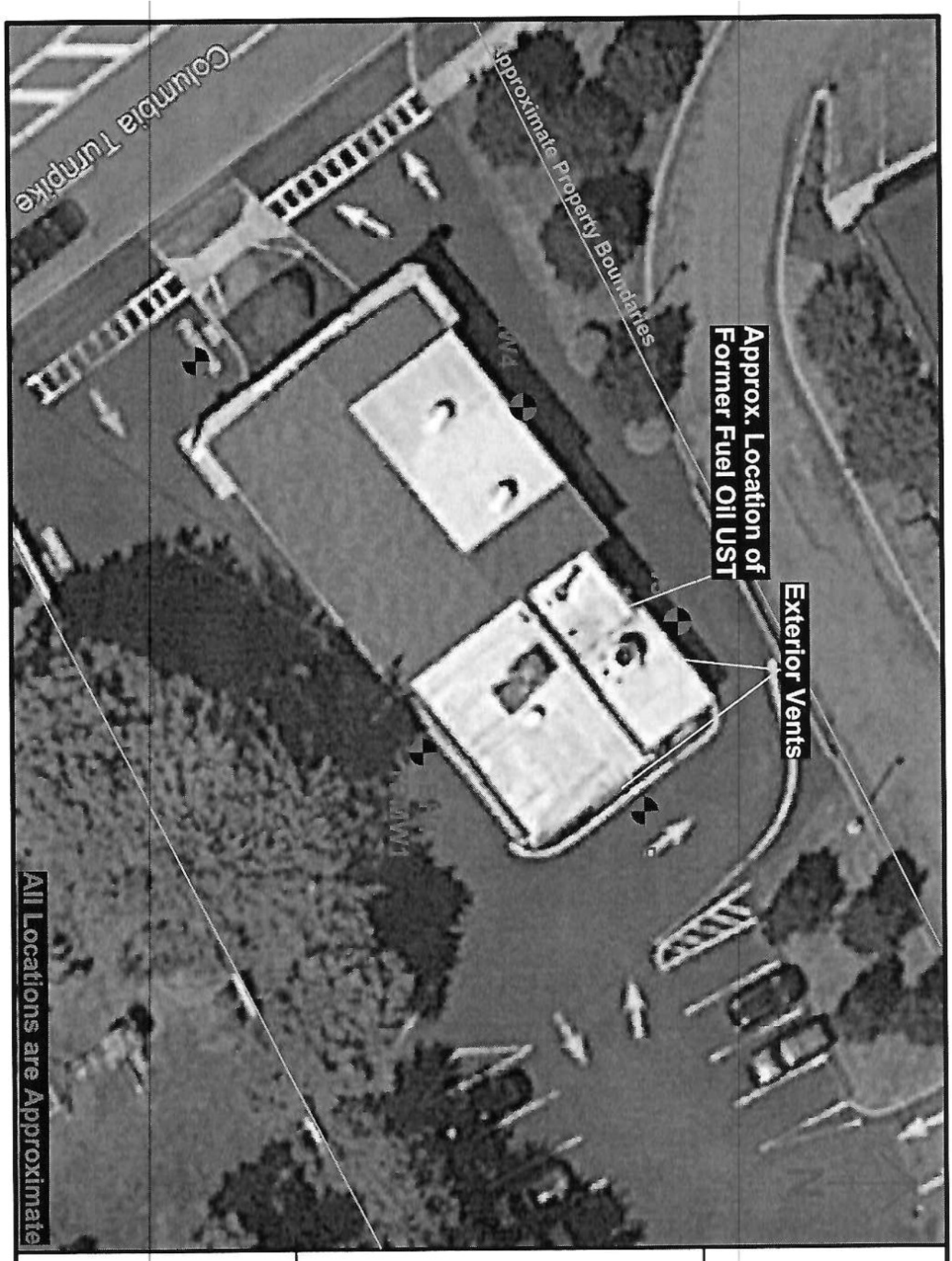
PROJECT/ LOCATION: 627 Columbia Turnpike, East Greenbush, New York
PROJECT No. 191020.22
CLIENT: NBT Bank, N.A.
BORING/WELL No. BH3/TPMW3
DATE STARTED: 3/6/19 DATE COMPLETED: 3/6/19
RECORDED BY: AT
GROUNDWATER DEPTH WHILE DRILLING: ~4.9 ft. bgs. AFTER COMPLETION: ~6.1 ft. bgs.
WEATHER: 30 °F, Sunny DRILL RIG: Geoprobe DRILLER: Core Down Drilling
DRILL SIZE/TYPE: Dual tube SAMPLE HAMMER: WEIGHT NA FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description
1	7.0	0.3-2	U	-	-	10	0- 0.3 ft. Asphalt
2	81.7	2-4	U	-	-	10	0.3-1.5 ft. Loose, moist, grey, gravelly, coarse to fine SAND (SW)
3	10.9	4-6	U	-	-	13	1.5-4.9 ft. Medium stiff, moist, brown, silty, low plasticity CLAY (CL)
4	14.8	6-8	U	-	-	16	4.9-14.8 ft. Soft, wet, brown, silty, medium plasticity CLAY (CL)
5	27.4	8-10	U	-	-	16	14.8-15.0 ft. Medium stiff, moist, brown, silty, low plasticity CLAY (CL)
6	29.5	10-12	U	-	-	24	
7	40.1	12-14	U	-	-	24	
8	27.3	14-15	U	-	-	12	

NOTES NA = Not Applicable
ft. bgs = feet below ground surface

Fill to ~1.5 ft. bgs
Suspect odors detected at ~8.0-8.5 ft. bgs.

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE



SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

FIGURE 2- SITE INVESTIGATION PLAN

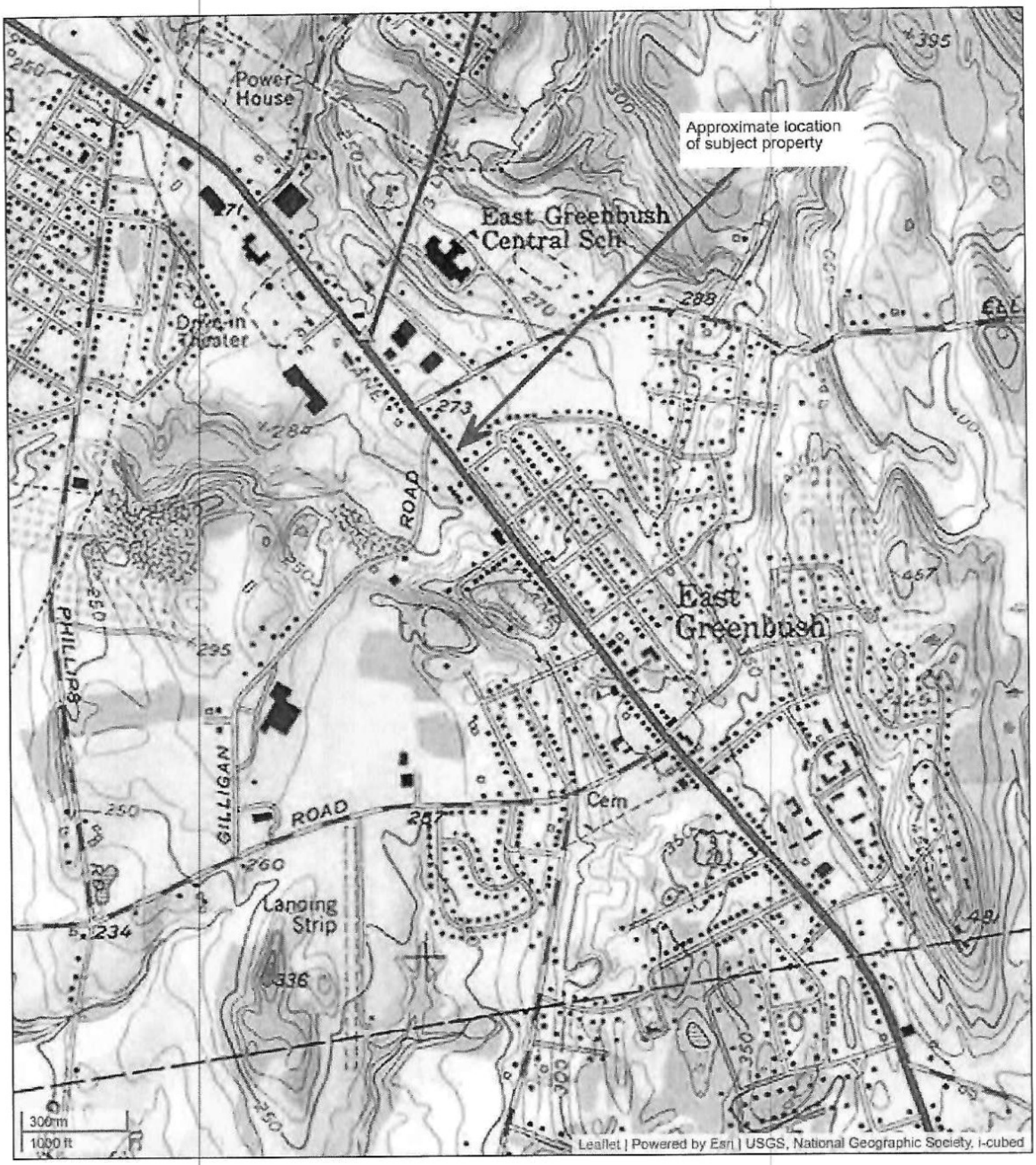
627 Columbia Turnpike
East Greenbush, New York

Drawn by: JRH

Checked by: DBR

15 30
Approximate Scale in Feet

SIG Project # 191020.22



Topographic Map

(East Greenbush Quadrangle Map dated 1980)

Saumik Patel
627 Columbia Turnpike
East Greenbush, New York
LCS Project No. 19H681.24

LCS INC.
Environmental and Real Estate Consultants

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.4		1	03/13/2019 11:26	WG1249212

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		325	592	20	03/14/2019 01:53	WG1249338
Benzene	U		0.474	1.18	1	03/10/2019 17:12	WG1247937
Bromochloromethane	U		1.34	5.92	1	03/10/2019 17:12	WG1247937
Bromodichloromethane	U		0.933	2.96	1	03/10/2019 17:12	WG1247937
Bromoform	U		7.08	29.6	1	03/10/2019 17:12	WG1247937
Bromomethane	U		4.38	14.8	1	03/10/2019 17:12	WG1247937
Carbon disulfide	U		4.81	14.8	1	03/10/2019 17:12	WG1247937
Carbon tetrachloride	U		1.28	5.92	1	03/10/2019 17:12	WG1247937
Chlorobenzene	U		0.679	2.96	1	03/10/2019 17:12	WG1247937
Chlorodibromomethane	U		0.533	2.96	1	03/10/2019 17:12	WG1247937
Chloroethane	U	J4	1.28	5.92	1	03/10/2019 17:12	WG1247937
Chloroform	4.31		0.492	2.96	1	03/10/2019 17:12	WG1247937
Chloromethane	U	J4	1.65	14.8	1	03/10/2019 17:12	WG1247937
Cyclohexane	U		0.602	2.96	1	03/10/2019 17:12	WG1247937
1,2-Dibromo-3-Chloropropane	U		5.04	29.6	1	03/10/2019 17:12	WG1247937
1,2-Dibromoethane	U		0.622	2.96	1	03/10/2019 17:12	WG1247937
Dichlorodifluoromethane	U	J4	0.969	2.96	1	03/10/2019 17:12	WG1247937
1,1-Dichloroethane	U		0.681	2.96	1	03/10/2019 17:12	WG1247937
1,2-Dichloroethane	U		0.563	2.96	1	03/10/2019 17:12	WG1247937
1,2-Dichlorobenzene	U		1.72	5.92	1	03/10/2019 17:12	WG1247937
1,3-Dichlorobenzene	U		2.01	5.92	1	03/10/2019 17:12	WG1247937
1,4-Dichlorobenzene	U		2.33	5.92	1	03/10/2019 17:12	WG1247937
1,1-Dichloroethene	U		0.592	2.96	1	03/10/2019 17:12	WG1247937
cis-1,2-Dichloroethene	255		0.817	2.96	1	03/10/2019 17:12	WG1247937
trans-1,2-Dichloroethene	17.6		1.69	5.92	1	03/10/2019 17:12	WG1247937
1,2-Dichloropropane	U		1.50	5.92	1	03/10/2019 17:12	WG1247937
cis-1,3-Dichloropropene	U		0.803	2.96	1	03/10/2019 17:12	WG1247937
trans-1,3-Dichloropropene	U		1.81	5.92	1	03/10/2019 17:12	WG1247937
Ethylbenzene	U		0.628	2.96	1	03/10/2019 17:12	WG1247937
2-Hexanone	U		11.8	29.6	1	03/10/2019 17:12	WG1247937
Isopropylbenzene	U		1.02	2.96	1	03/10/2019 17:12	WG1247937
2-Butanone (MEK)	17.0	J	14.8	29.6	1	03/10/2019 17:12	WG1247937
Methyl Acetate	5.56	J	2.49	5.92	1	03/10/2019 17:12	WG1247937
Methyl Cyclohexane	U		1.22	5.92	1	03/10/2019 17:12	WG1247937
Methylene Chloride	U		7.87	29.6	1	03/10/2019 17:12	WG1247937
4-Methyl-2-pentanone (MIBK)	U		11.8	29.6	1	03/10/2019 17:12	WG1247937
Methyl tert-butyl ether	U		0.349	1.18	1	03/10/2019 17:12	WG1247937
Naphthalene	U		3.70	14.8	1	03/10/2019 17:12	WG1247937
Styrene	U		3.23	14.8	1	03/10/2019 17:12	WG1247937
1,1,2,2-Tetrachloroethane	U		0.462	2.96	1	03/10/2019 17:12	WG1247937
Tetrachloroethene	13300		16.6	59.2	20	03/14/2019 12:28	WG1249871
Toluene	U		1.48	5.92	1	03/10/2019 17:12	WG1247937
1,2,3-Trichlorobenzene	U		14.8	59.2	20	03/14/2019 01:53	WG1249338
1,2,4-Trichlorobenzene	U		114	296	20	03/14/2019 01:53	WG1249338
1,1,1-Trichloroethane	U		0.326	2.96	1	03/10/2019 17:12	WG1247937
1,1,2-Trichloroethane	U		1.05	2.96	1	03/10/2019 17:12	WG1247937
Trichloroethene	338		0.474	1.18	1	03/10/2019 17:12	WG1247937
Trichlorofluoromethane	U		0.592	2.96	1	03/10/2019 17:12	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.800	2.96	1	03/10/2019 17:12	WG1247937
Vinyl chloride	U	J4	0.809	2.96	1	03/10/2019 17:12	WG1247937

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	03/08/2019 04:38	WG1246980
Benzene	U		0.331	1.00	1	03/08/2019 04:38	WG1246980
Bromochloromethane	U		0.520	1.00	1	03/08/2019 04:38	WG1246980
Bromodichloromethane	U		0.380	1.00	1	03/08/2019 04:38	WG1246980
Bromoform	U		0.469	1.00	1	03/08/2019 04:38	WG1246980
Bromomethane	U		8.66	50.0	10	03/14/2019 14:16	WG1249582
Carbon disulfide	U		0.275	1.00	1	03/08/2019 04:38	WG1246980
Carbon tetrachloride	U		0.379	1.00	1	03/08/2019 04:38	WG1246980
Chlorobenzene	U		0.348	1.00	1	03/08/2019 04:38	WG1246980
Chlorodibromomethane	U		0.327	1.00	1	03/08/2019 04:38	WG1246980
Chloroethane	U		0.453	5.00	1	03/08/2019 04:38	WG1246980
Chloroform	4.68	J	0.324	5.00	1	03/08/2019 04:38	WG1246980
Chloromethane	U		0.276	2.50	1	03/08/2019 04:38	WG1246980
Cyclohexane	U		0.390	1.00	1	03/08/2019 04:38	WG1246980
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2019 04:38	WG1246980
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2019 04:38	WG1246980
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2019 04:38	WG1246980
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2019 04:38	WG1246980
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2019 04:38	WG1246980
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2019 04:38	WG1246980
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2019 04:38	WG1246980
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2019 04:38	WG1246980
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2019 04:38	WG1246980
cis-1,2-Dichloroethene	16.0		0.260	1.00	1	03/08/2019 04:38	WG1246980
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2019 04:38	WG1246980
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2019 04:38	WG1246980
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2019 04:38	WG1246980
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2019 04:38	WG1246980
Ethylbenzene	U		0.384	1.00	1	03/08/2019 04:38	WG1246980
2-Hexanone	U		3.82	10.0	1	03/08/2019 04:38	WG1246980
Isopropylbenzene	U		0.326	1.00	1	03/08/2019 04:38	WG1246980
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2019 04:38	WG1246980
Methyl Acetate	U		4.30	20.0	1	03/08/2019 04:38	WG1246980
Methyl Cyclohexane	U		0.380	1.00	1	03/08/2019 04:38	WG1246980
Methylene Chloride	U		1.00	5.00	1	03/08/2019 04:38	WG1246980
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2019 04:38	WG1246980
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2019 04:38	WG1246980
Naphthalene	U		1.00	5.00	1	03/08/2019 04:38	WG1246980
Styrene	U		0.307	1.00	1	03/08/2019 04:38	WG1246980
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2019 04:38	WG1246980
Tetrachloroethene	135		3.72	10.0	10	03/14/2019 14:16	WG1249582
Toluene	U		0.412	1.00	1	03/08/2019 04:38	WG1246980
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2019 04:38	WG1246980
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2019 04:38	WG1246980
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2019 04:38	WG1246980
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2019 04:38	WG1246980
Trichloroethene	19.9		0.398	1.00	1	03/08/2019 04:38	WG1246980
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2019 04:38	WG1246980
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2019 04:38	WG1246980
Vinyl chloride	U		0.259	1.00	1	03/08/2019 04:38	WG1246980
o-Xylene	U		0.341	1.00	1	03/08/2019 04:38	WG1246980
m&p-Xylenes	U		0.719	2.00	1	03/08/2019 04:38	WG1246980
n-Butylbenzene	U		0.361	1.00	1	03/08/2019 04:38	WG1246980
sec-Butylbenzene	U		0.365	1.00	1	03/08/2019 04:38	WG1246980
tert-Butylbenzene	U		0.399	1.00	1	03/08/2019 04:38	WG1246980
p-Isopropyltoluene	U		0.350	1.00	1	03/08/2019 04:38	WG1246980

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		500	2500	50	03/08/2019 03:37	WG1246980
Benzene	U		16.6	50.0	50	03/08/2019 03:37	WG1246980
Bromochloromethane	U		26.0	50.0	50	03/08/2019 03:37	WG1246980
Bromodichloromethane	U		19.0	50.0	50	03/08/2019 03:37	WG1246980
Bromoform	U		23.4	50.0	50	03/08/2019 03:37	WG1246980
Bromomethane	U		4330	25000	5000	03/14/2019 13:16	WG1249582
Carbon disulfide	U		13.8	50.0	50	03/08/2019 03:37	WG1246980
Carbon tetrachloride	U		19.0	50.0	50	03/08/2019 03:37	WG1246980
Chlorobenzene	U		17.4	50.0	50	03/08/2019 03:37	WG1246980
Chlorodibromomethane	U		16.4	50.0	50	03/08/2019 03:37	WG1246980
Chloroethane	U		22.6	250	50	03/08/2019 03:37	WG1246980
Chloroform	U		16.2	250	50	03/08/2019 03:37	WG1246980
Chloromethane	U		13.8	125	50	03/08/2019 03:37	WG1246980
Cyclohexane	U		19.5	50.0	50	03/08/2019 03:37	WG1246980
1,2-Dibromo-3-Chloropropane	U		66.5	250	50	03/08/2019 03:37	WG1246980
1,2-Dibromoethane	U		19.0	50.0	50	03/08/2019 03:37	WG1246980
1,2-Dichlorobenzene	U		17.4	50.0	50	03/08/2019 03:37	WG1246980
1,3-Dichlorobenzene	U		11.0	50.0	50	03/08/2019 03:37	WG1246980
1,4-Dichlorobenzene	U		13.7	50.0	50	03/08/2019 03:37	WG1246980
Dichlorodifluoromethane	U		27.6	250	50	03/08/2019 03:37	WG1246980
1,1-Dichloroethane	U		13.0	50.0	50	03/08/2019 03:37	WG1246980
1,2-Dichloroethane	U		18.0	50.0	50	03/08/2019 03:37	WG1246980
1,1-Dichloroethene	U		19.9	50.0	50	03/08/2019 03:37	WG1246980
cis-1,2-Dichloroethene	8490		1300	5000	5000	03/14/2019 13:16	WG1249582
trans-1,2-Dichloroethene	41.3	J	19.8	50.0	50	03/08/2019 03:37	WG1246980
1,2-Dichloropropane	U		15.3	50.0	50	03/08/2019 03:37	WG1246980
cis-1,3-Dichloropropene	U		20.9	50.0	50	03/08/2019 03:37	WG1246980
trans-1,3-Dichloropropene	U		21.0	50.0	50	03/08/2019 03:37	WG1246980
Ethylbenzene	U		19.2	50.0	50	03/08/2019 03:37	WG1246980
2-Hexanone	U		191	500	50	03/08/2019 03:37	WG1246980
Isopropylbenzene	U		16.3	50.0	50	03/08/2019 03:37	WG1246980
2-Butanone (MEK)	U		196	500	50	03/08/2019 03:37	WG1246980
Methyl Acetate	U		215	1000	50	03/08/2019 03:37	WG1246980
Methyl Cyclohexane	U		19.0	50.0	50	03/08/2019 03:37	WG1246980
Methylene Chloride	U		50.0	250	50	03/08/2019 03:37	WG1246980
4-Methyl-2-pentanone (MIBK)	U		107	500	50	03/08/2019 03:37	WG1246980
Methyl tert-butyl ether	U		18.4	50.0	50	03/08/2019 03:37	WG1246980
Naphthalene	U		50.0	250	50	03/08/2019 03:37	WG1246980
Styrene	U		15.4	50.0	50	03/08/2019 03:37	WG1246980
1,1,2,2-Tetrachloroethane	U		6.50	50.0	50	03/08/2019 03:37	WG1246980
Tetrachloroethene	87900		1860	5000	5000	03/14/2019 13:16	WG1249582
Toluene	U		20.6	50.0	50	03/08/2019 03:37	WG1246980
1,2,3-Trichlorobenzene	U		11.5	50.0	50	03/08/2019 03:37	WG1246980
1,2,4-Trichlorobenzene	U		17.8	50.0	50	03/08/2019 03:37	WG1246980
1,1,1-Trichloroethane	U		16.0	50.0	50	03/08/2019 03:37	WG1246980
1,1,2-Trichloroethane	U		19.2	50.0	50	03/08/2019 03:37	WG1246980
Trichloroethene	2310		19.9	50.0	50	03/08/2019 03:37	WG1246980
Trichlorofluoromethane	U		60.0	250	50	03/08/2019 03:37	WG1246980
1,1,2-Trichlorotrifluoroethane	U		15.2	50.0	50	03/08/2019 03:37	WG1246980
Vinyl chloride	U		13.0	50.0	50	03/08/2019 03:37	WG1246980
Xylenes, Total	U		53.0	150	50	03/08/2019 03:37	WG1246980
(S) Toluene-d8	*100*			*80.0-120*		*03/08/2019 03:37*	WG1246980
(S) Toluene-d8	*102*			*80.0-120*		*03/14/2019 13:16*	WG1249582
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*03/08/2019 03:37*	WG1246980
(S) a,a,a-Trifluorotoluene	*93.4*			*80.0-120*		*03/14/2019 13:16*	WG1249582
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*03/08/2019 03:37*	WG1246980

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		50.0	250	5	03/08/2019 03:57	WG1246980
Benzene	U		1.66	5.00	5	03/08/2019 03:57	WG1246980
Bromochloromethane	U		2.60	5.00	5	03/08/2019 03:57	WG1246980
Bromodichloromethane	U		1.90	5.00	5	03/08/2019 03:57	WG1246980
Bromoform	U		2.34	5.00	5	03/08/2019 03:57	WG1246980
Bromomethane	U		4.33	25.0	5	03/14/2019 13:36	WG1249582
Carbon disulfide	U		1.38	5.00	5	03/08/2019 03:57	WG1246980
Carbon tetrachloride	U		1.90	5.00	5	03/08/2019 03:57	WG1246980
Chlorobenzene	U		1.74	5.00	5	03/08/2019 03:57	WG1246980
Chlorodibromomethane	U		1.64	5.00	5	03/08/2019 03:57	WG1246980
Chloroethane	U		2.26	25.0	5	03/08/2019 03:57	WG1246980
Chloroform	2.72	J	1.62	25.0	5	03/08/2019 03:57	WG1246980
Chloromethane	U		1.38	12.5	5	03/08/2019 03:57	WG1246980
Cyclohexane	U		1.95	5.00	5	03/08/2019 03:57	WG1246980
1,2-Dibromo-3-Chloropropane	U		6.65	25.0	5	03/08/2019 03:57	WG1246980
1,2-Dibromoethane	U		1.90	5.00	5	03/08/2019 03:57	WG1246980
1,2-Dichlorobenzene	U		1.74	5.00	5	03/08/2019 03:57	WG1246980
1,3-Dichlorobenzene	U		1.10	5.00	5	03/08/2019 03:57	WG1246980
1,4-Dichlorobenzene	U		1.37	5.00	5	03/08/2019 03:57	WG1246980
Dichlorodifluoromethane	U		2.76	25.0	5	03/08/2019 03:57	WG1246980
1,1-Dichloroethane	U		1.30	5.00	5	03/08/2019 03:57	WG1246980
1,2-Dichloroethane	U		1.80	5.00	5	03/08/2019 03:57	WG1246980
1,1-Dichloroethene	U		1.99	5.00	5	03/08/2019 03:57	WG1246980
cis-1,2-Dichloroethene	130		1.30	5.00	5	03/08/2019 03:57	WG1246980
trans-1,2-Dichloroethene	U		1.98	5.00	5	03/08/2019 03:57	WG1246980
1,2-Dichloropropane	U		1.53	5.00	5	03/08/2019 03:57	WG1246980
cis-1,3-Dichloropropene	U		2.09	5.00	5	03/08/2019 03:57	WG1246980
trans-1,3-Dichloropropene	U		2.10	5.00	5	03/08/2019 03:57	WG1246980
Ethylbenzene	U		1.92	5.00	5	03/08/2019 03:57	WG1246980
2-Hexanone	U		19.1	50.0	5	03/08/2019 03:57	WG1246980
Isopropylbenzene	U		1.63	5.00	5	03/08/2019 03:57	WG1246980
2-Butanone (MEK)	U		19.6	50.0	5	03/08/2019 03:57	WG1246980
Methyl Acetate	U		21.5	100	5	03/08/2019 03:57	WG1246980
Methyl Cyclohexane	U		1.90	5.00	5	03/08/2019 03:57	WG1246980
Methylene Chloride	U		5.00	25.0	5	03/08/2019 03:57	WG1246980
4-Methyl-2-pentanone (MIBK)	U		10.7	50.0	5	03/08/2019 03:57	WG1246980
Methyl tert-butyl ether	U		1.84	5.00	5	03/08/2019 03:57	WG1246980
Naphthalene	U		5.00	25.0	5	03/08/2019 03:57	WG1246980
Styrene	U		1.54	5.00	5	03/08/2019 03:57	WG1246980
1,1,2,2-Tetrachloroethane	U		0.650	5.00	5	03/08/2019 03:57	WG1246980
Tetrachloroethene	577		1.86	5.00	5	03/08/2019 03:57	WG1246980
Toluene	U		2.06	5.00	5	03/08/2019 03:57	WG1246980
1,2,3-Trichlorobenzene	U		1.15	5.00	5	03/08/2019 03:57	WG1246980
1,2,4-Trichlorobenzene	U		1.78	5.00	5	03/08/2019 03:57	WG1246980
1,1,1-Trichloroethane	U		1.60	5.00	5	03/08/2019 03:57	WG1246980
1,1,2-Trichloroethane	U		1.92	5.00	5	03/08/2019 03:57	WG1246980
Trichloroethene	10.4		1.99	5.00	5	03/08/2019 03:57	WG1246980
Trichlorofluoromethane	U		6.00	25.0	5	03/08/2019 03:57	WG1246980
1,1,2-Trichlorotrifluoroethane	U		1.52	5.00	5	03/08/2019 03:57	WG1246980
Vinyl chloride	U		1.30	5.00	5	03/08/2019 03:57	WG1246980
Xylenes, Total	U		5.30	15.0	5	03/08/2019 03:57	WG1246980
(S) Toluene-d8	*98.7*			*80.0-120*		*03/08/2019 03:57*	WG1246980
(S) Toluene-d8	*100*			*80.0-120*		*03/14/2019 13:36*	WG1249582
(S) a,a,a-Trifluorotoluene	*105*			*80.0-120*		*03/08/2019 03:57*	WG1246980
(S) a,a,a-Trifluorotoluene	*95.1*			*80.0-120*		*03/14/2019 13:36*	WG1249582
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/08/2019 03:57*	WG1246980

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		50.0	250	5	03/08/2019 04:17	WG1246980
Benzene	U		1.66	5.00	5	03/08/2019 04:17	WG1246980
Bromochloromethane	U		2.60	5.00	5	03/08/2019 04:17	WG1246980
Bromodichloromethane	U		1.90	5.00	5	03/08/2019 04:17	WG1246980
Bromoform	U		2.34	5.00	5	03/08/2019 04:17	WG1246980
Bromomethane	U		4.33	25.0	5	03/14/2019 13:56	WG1249582
Carbon disulfide	U		1.38	5.00	5	03/08/2019 04:17	WG1246980
Carbon tetrachloride	U		1.90	5.00	5	03/08/2019 04:17	WG1246980
Chlorobenzene	U		1.74	5.00	5	03/08/2019 04:17	WG1246980
Chlorodibromomethane	U		1.64	5.00	5	03/08/2019 04:17	WG1246980
Chloroethane	U		2.26	25.0	5	03/08/2019 04:17	WG1246980
Chloroform	2.47	J	1.62	25.0	5	03/08/2019 04:17	WG1246980
Chloromethane	U		1.38	12.5	5	03/08/2019 04:17	WG1246980
Cyclohexane	U		1.95	5.00	5	03/08/2019 04:17	WG1246980
1,2-Dibromo-3-Chloropropane	U		6.65	25.0	5	03/08/2019 04:17	WG1246980
1,2-Dibromoethane	U		1.90	5.00	5	03/08/2019 04:17	WG1246980
1,2-Dichlorobenzene	U		1.74	5.00	5	03/08/2019 04:17	WG1246980
1,3-Dichlorobenzene	U		1.10	5.00	5	03/08/2019 04:17	WG1246980
1,4-Dichlorobenzene	U		1.37	5.00	5	03/08/2019 04:17	WG1246980
Dichlorodifluoromethane	U		2.76	25.0	5	03/08/2019 04:17	WG1246980
1,1-Dichloroethane	U		1.30	5.00	5	03/08/2019 04:17	WG1246980
1,2-Dichloroethane	U		1.80	5.00	5	03/08/2019 04:17	WG1246980
1,1-Dichloroethene	U		1.99	5.00	5	03/08/2019 04:17	WG1246980
cis-1,2-Dichloroethene	128		1.30	5.00	5	03/08/2019 04:17	WG1246980
trans-1,2-Dichloroethene	U		1.98	5.00	5	03/08/2019 04:17	WG1246980
1,2-Dichloropropane	U		1.53	5.00	5	03/08/2019 04:17	WG1246980
cis-1,3-Dichloropropene	U		2.09	5.00	5	03/08/2019 04:17	WG1246980
trans-1,3-Dichloropropene	U		2.10	5.00	5	03/08/2019 04:17	WG1246980
Ethylbenzene	U		1.92	5.00	5	03/08/2019 04:17	WG1246980
2-Hexanone	U		19.1	50.0	5	03/08/2019 04:17	WG1246980
Isopropylbenzene	U		1.63	5.00	5	03/08/2019 04:17	WG1246980
2-Butanone (MEK)	U		19.6	50.0	5	03/08/2019 04:17	WG1246980
Methyl Acetate	U		21.5	100	5	03/08/2019 04:17	WG1246980
Methyl Cyclohexane	U		1.90	5.00	5	03/08/2019 04:17	WG1246980
Methylene Chloride	U		5.00	25.0	5	03/08/2019 04:17	WG1246980
4-Methyl-2-pentanone (MIBK)	U		10.7	50.0	5	03/08/2019 04:17	WG1246980
Methyl tert-butyl ether	U		1.84	5.00	5	03/08/2019 04:17	WG1246980
Naphthalene	U		5.00	25.0	5	03/08/2019 04:17	WG1246980
Styrene	U		1.54	5.00	5	03/08/2019 04:17	WG1246980
1,1,2,2-Tetrachloroethane	U		0.650	5.00	5	03/08/2019 04:17	WG1246980
Tetrachloroethene	521		1.86	5.00	5	03/08/2019 04:17	WG1246980
Toluene	U		2.06	5.00	5	03/08/2019 04:17	WG1246980
1,2,3-Trichlorobenzene	U		1.15	5.00	5	03/08/2019 04:17	WG1246980
1,2,4-Trichlorobenzene	U		1.78	5.00	5	03/08/2019 04:17	WG1246980
1,1,1-Trichloroethane	U		1.60	5.00	5	03/08/2019 04:17	WG1246980
1,1,2-Trichloroethane	U		1.92	5.00	5	03/08/2019 04:17	WG1246980
Trichloroethene	9.34		1.99	5.00	5	03/08/2019 04:17	WG1246980
Trichlorofluoromethane	U		6.00	25.0	5	03/08/2019 04:17	WG1246980
1,1,2-Trichlorotrifluoroethane	U		1.52	5.00	5	03/08/2019 04:17	WG1246980
Vinyl chloride	U		1.30	5.00	5	03/08/2019 04:17	WG1246980
Xylenes, Total	U		5.30	15.0	5	03/08/2019 04:17	WG1246980
(S) Toluene-d8	*98.7*			*80.0-120*		*03/08/2019 04:17*	WG1246980
(S) Toluene-d8	*102*			*80.0-120*		*03/14/2019 13:56*	WG1249582
(S) a,a,a-Trifluorotoluene	*101*			*80.0-120*		*03/08/2019 04:17*	WG1246980
(S) a,a,a-Trifluorotoluene	*95.8*			*80.0-120*		*03/14/2019 13:56*	WG1249582
(S) 4-Bromofluorobenzene	*99.3*			*77.0-126*		*03/08/2019 04:17*	WG1246980

TPMW5 L1076453-07 GW

Collected by: Anya True | Collected date/time: 03/06/19 13:40 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1246980	5	03/08/19 03:57	03/08/19 03:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249582	5	03/14/19 13:36	03/14/19 13:36	ADM	Mt. Juliet, TN

TPMW4 L1076453-08 GW

Collected by: Anya True | Collected date/time: 03/06/19 14:01 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1246980	5	03/08/19 04:17	03/08/19 04:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249582	5	03/14/19 13:56	03/14/19 13:56	ADM	Mt. Juliet, TN

BH3 2-4FT L1076453-09 Solid

Collected by: Anya True | Collected date/time: 03/06/19 10:00 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1249212	1	03/13/19 11:15	03/13/19 11:26	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 10:00	03/10/19 17:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	20	03/06/19 10:00	03/14/19 01:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249871	20	03/06/19 10:00	03/14/19 12:28	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1247522	5	03/09/19 05:33	03/11/19 06:48	LEA	Mt. Juliet, TN

TPMW3 L1076453-10 GW

Collected by: Anya True | Collected date/time: 03/06/19 12:55 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1246980	1	03/08/19 04:38	03/08/19 04:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249582	10	03/14/19 14:16	03/14/19 14:16	ADM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1246940	1	03/08/19 15:25	03/09/19 03:08	DMG	Mt. Juliet, TN

BH3 12-14FT L1076453-11 Solid

Collected by: Anya True | Collected date/time: 03/06/19 10:00 | Received date/time: 03/07/19 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1249212	1	03/13/19 11:15	03/13/19 11:26	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1247937	1	03/06/19 10:00	03/10/19 17:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1249338	1	03/06/19 10:00	03/14/19 01:13	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1247522	1	03/09/19 05:33	03/11/19 05:26	LEA	Mt. Juliet, TN

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.9		1	03/11/2019 17:09	WG1248132

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		18.0	32.9	1	03/14/2019 00:14	WG1249338
Benzene	U		0.527	1.32	1	03/10/2019 15:43	WG1247937
Bromochloromethane	U		1.49	6.59	1	03/10/2019 15:43	WG1247937
Bromodichloromethane	U		1.04	3.29	1	03/10/2019 15:43	WG1247937
Bromoform	U		7.88	32.9	1	03/10/2019 15:43	WG1247937
Bromomethane	U		4.87	16.5	1	03/10/2019 15:43	WG1247937
Carbon disulfide	U		5.35	16.5	1	03/10/2019 15:43	WG1247937
Carbon tetrachloride	U		1.42	6.59	1	03/10/2019 15:43	WG1247937
Chlorobenzene	U		0.755	3.29	1	03/10/2019 15:43	WG1247937
Chlorodibromomethane	U		0.593	3.29	1	03/10/2019 15:43	WG1247937
Chloroethane	U	J4	1.42	6.59	1	03/10/2019 15:43	WG1247937
Chloroform	U		0.547	3.29	1	03/10/2019 15:43	WG1247937
Chloromethane	U	J4	1.83	16.5	1	03/10/2019 15:43	WG1247937
Cyclohexane	U		0.669	3.29	1	03/10/2019 15:43	WG1247937
1,2-Dibromo-3-Chloropropane	U		6.72	32.9	1	03/10/2019 15:43	WG1247937
1,2-Dibromoethane	U		0.691	3.29	1	03/10/2019 15:43	WG1247937
Dichlorodifluoromethane	U	J4	1.08	3.29	1	03/10/2019 15:43	WG1247937
1,1-Dichloroethane	U		0.757	3.29	1	03/10/2019 15:43	WG1247937
1,2-Dichloroethane	U		0.626	3.29	1	03/10/2019 15:43	WG1247937
1,2-Dichlorobenzene	U		1.91	6.59	1	03/10/2019 15:43	WG1247937
1,3-Dichlorobenzene	U		2.24	6.59	1	03/10/2019 15:43	WG1247937
1,4-Dichlorobenzene	U		2.59	6.59	1	03/10/2019 15:43	WG1247937
1,1-Dichloroethene	U		0.659	3.29	1	03/10/2019 15:43	WG1247937
cis-1,2-Dichloroethene	31.1		0.909	3.29	1	03/10/2019 15:43	WG1247937
trans-1,2-Dichloroethene	U		1.88	6.59	1	03/10/2019 15:43	WG1247937
1,2-Dichloropropane	U		1.67	6.59	1	03/10/2019 15:43	WG1247937
cis-1,3-Dichloropropene	U		0.893	3.29	1	03/10/2019 15:43	WG1247937
trans-1,3-Dichloropropene	U		2.02	6.59	1	03/10/2019 15:43	WG1247937
Ethylbenzene	U		0.698	3.29	1	03/10/2019 15:43	WG1247937
2-Hexanone	U		13.2	32.9	1	03/10/2019 15:43	WG1247937
Isopropylbenzene	U		1.14	3.29	1	03/10/2019 15:43	WG1247937
2-Butanone (MEK)	25.6	J	16.5	32.9	1	03/10/2019 15:43	WG1247937
Methyl Acetate	U		2.77	6.59	1	03/10/2019 15:43	WG1247937
Methyl Cyclohexane	U		1.36	6.59	1	03/10/2019 15:43	WG1247937
Methylene Chloride	8.86	J	8.75	32.9	1	03/10/2019 15:43	WG1247937
4-Methyl-2-pentanone (MIBK)	U		13.2	32.9	1	03/10/2019 15:43	WG1247937
Methyl tert-butyl ether	U		0.389	1.32	1	03/10/2019 15:43	WG1247937
Naphthalene	4.66	J	4.11	16.5	1	03/10/2019 15:43	WG1247937
Styrene	U		3.60	16.5	1	03/10/2019 15:43	WG1247937
1,1,2,2-Tetrachloroethane	U		0.514	3.29	1	03/10/2019 15:43	WG1247937
Tetrachloroethene	507		0.922	3.29	1	03/10/2019 15:43	WG1247937
Toluene	U		1.65	6.59	1	03/10/2019 15:43	WG1247937
1,2,3-Trichlorobenzene	U		0.823	3.29	1	03/14/2019 00:14	WG1249338
1,2,4-Trichlorobenzene	U		6.35	16.5	1	03/14/2019 00:14	WG1249338
1,1,1-Trichloroethane	U		0.362	3.29	1	03/10/2019 15:43	WG1247937
1,1,2-Trichloroethane	U		1.16	3.29	1	03/10/2019 15:43	WG1247937
Trichloroethene	7.98		0.527	1.32	1	03/10/2019 15:43	WG1247937
Trichlorofluoromethane	U		0.659	3.29	1	03/10/2019 15:43	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.889	3.29	1	03/10/2019 15:43	WG1247937
Vinyl chloride	U	J4	0.900	3.29	1	03/10/2019 15:43	WG1247937

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.3		1	03/11/2019 17:09	WG1248132

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	449	J	350	638	20	03/14/2019 01:33	WG1249338
Benzene	U		0.511	1.28	1	03/10/2019 16:05	WG1247937
Bromochloromethane	U		1.44	6.38	1	03/10/2019 16:05	WG1247937
Bromodichloromethane	U		1.01	3.19	1	03/10/2019 16:05	WG1247937
Bromoform	U		7.64	31.9	1	03/10/2019 16:05	WG1247937
Bromomethane	U		4.72	16.0	1	03/10/2019 16:05	WG1247937
Carbon disulfide	U		5.18	16.0	1	03/10/2019 16:05	WG1247937
Carbon tetrachloride	U		1.38	6.38	1	03/10/2019 16:05	WG1247937
Chlorobenzene	U		0.732	3.19	1	03/10/2019 16:05	WG1247937
Chlorodibromomethane	U		0.575	3.19	1	03/10/2019 16:05	WG1247937
Chloroethane	U	J4	1.38	6.38	1	03/10/2019 16:05	WG1247937
Chloroform	U		0.530	3.19	1	03/10/2019 16:05	WG1247937
Chloromethane	U	J4	1.78	16.0	1	03/10/2019 16:05	WG1247937
Cyclohexane	U		0.649	3.19	1	03/10/2019 16:05	WG1247937
1,2-Dibromo-3-Chloropropane	U		6.51	31.9	1	03/10/2019 16:05	WG1247937
1,2-Dibromoethane	U		0.670	3.19	1	03/10/2019 16:05	WG1247937
Dichlorodifluoromethane	U	J4	1.04	3.19	1	03/10/2019 16:05	WG1247937
1,1-Dichloroethane	U		0.734	3.19	1	03/10/2019 16:05	WG1247937
1,2-Dichloroethane	U		0.607	3.19	1	03/10/2019 16:05	WG1247937
1,2-Dichlorobenzene	U		1.85	6.38	1	03/10/2019 16:05	WG1247937
1,3-Dichlorobenzene	U		2.17	6.38	1	03/10/2019 16:05	WG1247937
1,4-Dichlorobenzene	U		2.52	6.38	1	03/10/2019 16:05	WG1247937
1,1-Dichloroethene	4.08		0.638	3.19	1	03/10/2019 16:05	WG1247937
cis-1,2-Dichloroethene	2990		0.881	3.19	1	03/10/2019 16:05	WG1247937
trans-1,2-Dichloroethene	10.4		1.83	6.38	1	03/10/2019 16:05	WG1247937
1,2-Dichloropropane	U		1.52	6.38	1	03/10/2019 16:05	WG1247937
cis-1,3-Dichloropropene	U		0.866	3.19	1	03/10/2019 16:05	WG1247937
trans-1,3-Dichloropropene	U		1.95	6.38	1	03/10/2019 16:05	WG1247937
Ethylbenzene	U		0.677	3.19	1	03/10/2019 16:05	WG1247937
2-Hexanone	U		12.8	31.9	1	03/10/2019 16:05	WG1247937
Isopropylbenzene	1.43	J	1.10	3.19	1	03/10/2019 16:05	WG1247937
2-Butanone (MEK)	24.8	J	16.0	31.9	1	03/10/2019 16:05	WG1247937
Methyl Acetate	U		2.68	6.38	1	03/10/2019 16:05	WG1247937
Methyl Cyclohexane	U		1.32	6.38	1	03/10/2019 16:05	WG1247937
Methylene Chloride	U		8.48	31.9	1	03/10/2019 16:05	WG1247937
4-Methyl-2-pentanone (MIBK)	U		12.8	31.9	1	03/10/2019 16:05	WG1247937
Methyl tert-butyl ether	U		0.377	1.28	1	03/10/2019 16:05	WG1247937
Naphthalene	U		3.98	16.0	1	03/10/2019 16:05	WG1247937
Styrene	U		3.49	16.0	1	03/10/2019 16:05	WG1247937
1,1,2,2-Tetrachloroethane	U		0.498	3.19	1	03/10/2019 16:05	WG1247937
Tetrachloroethene	15500		17.9	63.8	20	03/14/2019 12:09	WG1249871
Toluene	2.37	J	1.60	6.38	1	03/10/2019 16:05	WG1247937
1,2,3-Trichlorobenzene	U		16.0	63.8	20	03/14/2019 01:33	WG1249338
1,2,4-Trichlorobenzene	U		123	319	20	03/14/2019 01:33	WG1249338
1,1,1-Trichloroethane	U		0.351	3.19	1	03/10/2019 16:05	WG1247937
1,1,2-Trichloroethane	U		1.13	3.19	1	03/10/2019 16:05	WG1247937
Trichloroethene	692		0.511	1.28	1	03/10/2019 16:05	WG1247937
Trichlorofluoromethane	U		0.638	3.19	1	03/10/2019 16:05	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.862	3.19	1	03/10/2019 16:05	WG1247937
Vinyl chloride	U	J4	0.872	3.19	1	03/10/2019 16:05	WG1247937

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.7		1	03/11/2019 17:09	WG1248132

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		18.6	33.9	1	03/14/2019 00:34	WG1249338
Benzene	U		0.543	1.36	1	03/10/2019 16:28	WG1247937
Bromochloromethane	U		1.53	6.78	1	03/10/2019 16:28	WG1247937
Bromodichloromethane	U		1.07	3.39	1	03/10/2019 16:28	WG1247937
Bromoform	U		8.11	33.9	1	03/10/2019 16:28	WG1247937
Bromomethane	U		5.02	17.0	1	03/10/2019 16:28	WG1247937
Carbon disulfide	U		5.51	17.0	1	03/10/2019 16:28	WG1247937
Carbon tetrachloride	U		1.47	6.78	1	03/10/2019 16:28	WG1247937
Chlorobenzene	U		0.777	3.39	1	03/10/2019 16:28	WG1247937
Chlorodibromomethane	U		0.610	3.39	1	03/10/2019 16:28	WG1247937
Chloroethane	U	J4	1.47	6.78	1	03/10/2019 16:28	WG1247937
Chloroform	U		0.563	3.39	1	03/10/2019 16:28	WG1247937
Chloromethane	U	J4	1.89	17.0	1	03/10/2019 16:28	WG1247937
Cyclohexane	U		0.689	3.39	1	03/10/2019 16:28	WG1247937
1,2-Dibromo-3-Chloropropane	U		6.92	33.9	1	03/10/2019 16:28	WG1247937
1,2-Dibromoethane	U		0.712	3.39	1	03/10/2019 16:28	WG1247937
Dichlorodifluoromethane	U	J4	1.11	3.39	1	03/10/2019 16:28	WG1247937
1,1-Dichloroethane	U		0.780	3.39	1	03/10/2019 16:28	WG1247937
1,2-Dichloroethane	U		0.644	3.39	1	03/10/2019 16:28	WG1247937
1,2-Dichlorobenzene	U		1.97	6.78	1	03/10/2019 16:28	WG1247937
1,3-Dichlorobenzene	U		2.31	6.78	1	03/10/2019 16:28	WG1247937
1,4-Dichlorobenzene	U		2.67	6.78	1	03/10/2019 16:28	WG1247937
1,1-Dichloroethene	U		0.678	3.39	1	03/10/2019 16:28	WG1247937
cis-1,2-Dichloroethene	64.6		0.936	3.39	1	03/10/2019 16:28	WG1247937
trans-1,2-Dichloroethene	U		1.94	6.78	1	03/10/2019 16:28	WG1247937
1,2-Dichloropropane	U		1.72	6.78	1	03/10/2019 16:28	WG1247937
cis-1,3-Dichloropropene	U		0.920	3.39	1	03/10/2019 16:28	WG1247937
trans-1,3-Dichloropropene	U		2.08	6.78	1	03/10/2019 16:28	WG1247937
Ethylbenzene	U		0.719	3.39	1	03/10/2019 16:28	WG1247937
2-Hexanone	U		13.6	33.9	1	03/10/2019 16:28	WG1247937
Isopropylbenzene	U		1.17	3.39	1	03/10/2019 16:28	WG1247937
2-Butanone (MEK)	26.4	J	17.0	33.9	1	03/10/2019 16:28	WG1247937
Methyl Acetate	U		2.85	6.78	1	03/10/2019 16:28	WG1247937
Methyl Cyclohexane	U		1.40	6.78	1	03/10/2019 16:28	WG1247937
Methylene Chloride	U		9.01	33.9	1	03/10/2019 16:28	WG1247937
4-Methyl-2-pentanone (MIBK)	U		13.6	33.9	1	03/10/2019 16:28	WG1247937
Methyl tert-butyl ether	U		0.400	1.36	1	03/10/2019 16:28	WG1247937
Naphthalene	U		4.23	17.0	1	03/10/2019 16:28	WG1247937
Styrene	U		3.70	17.0	1	03/10/2019 16:28	WG1247937
1,1,2,2-Tetrachloroethane	U		0.529	3.39	1	03/10/2019 16:28	WG1247937
Tetrachloroethene	143		0.950	3.39	1	03/14/2019 11:30	WG1249871
Toluene	U		1.70	6.78	1	03/10/2019 16:28	WG1247937
1,2,3-Trichlorobenzene	U		0.848	3.39	1	03/14/2019 00:34	WG1249338
1,2,4-Trichlorobenzene	U		6.54	17.0	1	03/14/2019 00:34	WG1249338
1,1,1-Trichloroethane	U		0.373	3.39	1	03/10/2019 16:28	WG1247937
1,1,2-Trichloroethane	U		1.20	3.39	1	03/10/2019 16:28	WG1247937
Trichloroethene	7.03		0.543	1.36	1	03/10/2019 16:28	WG1247937
Trichlorofluoromethane	U		0.678	3.39	1	03/10/2019 16:28	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.916	3.39	1	03/10/2019 16:28	WG1247937
Vinyl chloride	U	J4	0.927	3.39	1	03/10/2019 16:28	WG1247937

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.7		1	03/13/2019 11:26	WG1249212

Volatile Organic Compounds (GC/MS) by Method 8260C

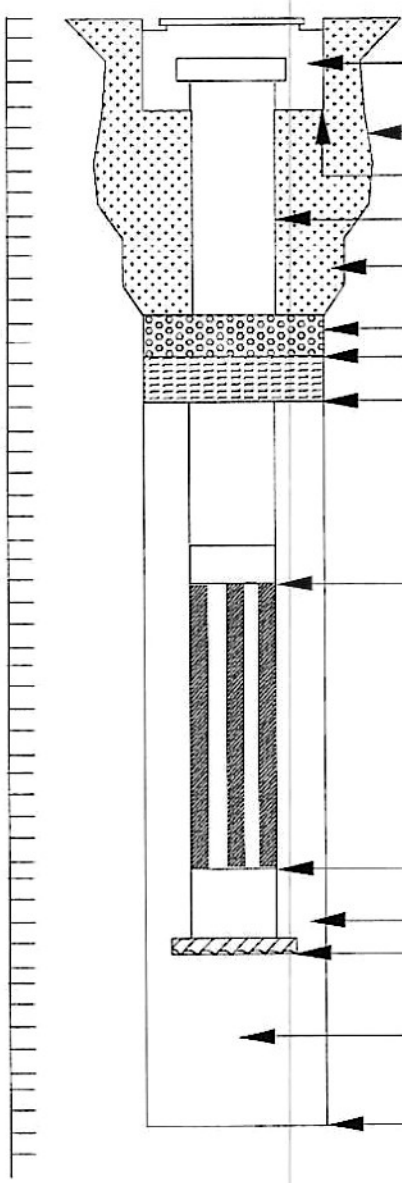
Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		18.6	33.9	1	03/14/2019 00:54	WG1249338
Benzene	U		0.543	1.36	1	03/10/2019 16:50	WG1247937
Bromochloromethane	U		1.53	6.79	1	03/10/2019 16:50	WG1247937
Bromodichloromethane	U		1.07	3.39	1	03/10/2019 16:50	WG1247937
Bromoform	U		8.12	33.9	1	03/10/2019 16:50	WG1247937
Bromomethane	U		5.02	17.0	1	03/10/2019 16:50	WG1247937
Carbon disulfide	U		5.51	17.0	1	03/10/2019 16:50	WG1247937
Carbon tetrachloride	U		1.47	6.79	1	03/10/2019 16:50	WG1247937
Chlorobenzene	U		0.778	3.39	1	03/10/2019 16:50	WG1247937
Chlorodibromomethane	U		0.611	3.39	1	03/10/2019 16:50	WG1247937
Chloroethane	U	J4	1.47	6.79	1	03/10/2019 16:50	WG1247937
Chloroform	U		0.563	3.39	1	03/10/2019 16:50	WG1247937
Chloromethane	U	J4	1.89	17.0	1	03/10/2019 16:50	WG1247937
Cyclohexane	U		0.690	3.39	1	03/10/2019 16:50	WG1247937
1,2-Dibromo-3-Chloropropane	U		6.92	33.9	1	03/10/2019 16:50	WG1247937
1,2-Dibromoethane	U		0.713	3.39	1	03/10/2019 16:50	WG1247937
Dichlorodifluoromethane	U	J4	1.11	3.39	1	03/10/2019 16:50	WG1247937
1,1-Dichloroethane	U		0.781	3.39	1	03/10/2019 16:50	WG1247937
1,2-Dichloroethane	U		0.645	3.39	1	03/10/2019 16:50	WG1247937
1,2-Dichlorobenzene	U		1.97	6.79	1	03/10/2019 16:50	WG1247937
1,3-Dichlorobenzene	U		2.31	6.79	1	03/10/2019 16:50	WG1247937
1,4-Dichlorobenzene	U		2.67	6.79	1	03/10/2019 16:50	WG1247937
1,1-Dichloroethene	U		0.679	3.39	1	03/10/2019 16:50	WG1247937
cis-1,2-Dichloroethene	U		0.937	3.39	1	03/10/2019 16:50	WG1247937
trans-1,2-Dichloroethene	U		1.94	6.79	1	03/10/2019 16:50	WG1247937
1,2-Dichloropropane	U		1.72	6.79	1	03/10/2019 16:50	WG1247937
cis-1,3-Dichloropropene	U		0.920	3.39	1	03/10/2019 16:50	WG1247937
trans-1,3-Dichloropropene	U		2.08	6.79	1	03/10/2019 16:50	WG1247937
Ethylbenzene	U		0.719	3.39	1	03/10/2019 16:50	WG1247937
2-Hexanone	U		13.6	33.9	1	03/10/2019 16:50	WG1247937
Isopropylbenzene	U		1.17	3.39	1	03/10/2019 16:50	WG1247937
2-Butanone (MEK)	U		17.0	33.9	1	03/10/2019 16:50	WG1247937
Methyl Acetate	U		2.85	6.79	1	03/10/2019 16:50	WG1247937
Methyl Cyclohexane	U		1.40	6.79	1	03/10/2019 16:50	WG1247937
Methylene Chloride	9.38	J	9.01	33.9	1	03/10/2019 16:50	WG1247937
4-Methyl-2-pentanone (MIBK)	U		13.6	33.9	1	03/10/2019 16:50	WG1247937
Methyl tert-butyl ether	U		0.400	1.36	1	03/10/2019 16:50	WG1247937
Naphthalene	U		4.24	17.0	1	03/10/2019 16:50	WG1247937
Styrene	U		3.71	17.0	1	03/10/2019 16:50	WG1247937
1,1,2,2-Tetrachloroethane	U		0.529	3.39	1	03/10/2019 16:50	WG1247937
Tetrachloroethene	11.0		0.950	3.39	1	03/14/2019 11:49	WG1249871
Toluene	U		1.70	6.79	1	03/10/2019 16:50	WG1247937
1,2,3-Trichlorobenzene	U		0.848	3.39	1	03/14/2019 00:54	WG1249338
1,2,4-Trichlorobenzene	U		6.54	17.0	1	03/14/2019 00:54	WG1249338
1,1,1-Trichloroethane	U		0.373	3.39	1	03/10/2019 16:50	WG1247937
1,1,2-Trichloroethane	U		1.20	3.39	1	03/10/2019 16:50	WG1247937
Trichloroethene	U		0.543	1.36	1	03/10/2019 16:50	WG1247937
Trichlorofluoromethane	U		0.679	3.39	1	03/10/2019 16:50	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.916	3.39	1	03/10/2019 16:50	WG1247937
Vinyl chloride	U	J4	0.927	3.39	1	03/10/2019 16:50	WG1247937

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	03/08/2019 03:17	WG1246980
Benzene	U		0.331	1.00	1	03/08/2019 03:17	WG1246980
Bromochloromethane	U		0.520	1.00	1	03/08/2019 03:17	WG1246980
Bromodichloromethane	U		0.380	1.00	1	03/08/2019 03:17	WG1246980
Bromoform	U		0.469	1.00	1	03/08/2019 03:17	WG1246980
Bromomethane	U		86.6	500	100	03/14/2019 12:55	WG1249582
Carbon disulfide	U		0.275	1.00	1	03/08/2019 03:17	WG1246980
Carbon tetrachloride	U		0.379	1.00	1	03/08/2019 03:17	WG1246980
Chlorobenzene	U		0.348	1.00	1	03/08/2019 03:17	WG1246980
Chlorodibromomethane	U		0.327	1.00	1	03/08/2019 03:17	WG1246980
Chloroethane	U		0.453	5.00	1	03/08/2019 03:17	WG1246980
Chloroform	2.54	J	0.324	5.00	1	03/08/2019 03:17	WG1246980
Chloromethane	U		0.276	2.50	1	03/08/2019 03:17	WG1246980
Cyclohexane	U		0.390	1.00	1	03/08/2019 03:17	WG1246980
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2019 03:17	WG1246980
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2019 03:17	WG1246980
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2019 03:17	WG1246980
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2019 03:17	WG1246980
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2019 03:17	WG1246980
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2019 03:17	WG1246980
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2019 03:17	WG1246980
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2019 03:17	WG1246980
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2019 03:17	WG1246980
cis-1,2-Dichloroethene	154		0.260	1.00	1	03/08/2019 03:17	WG1246980
trans-1,2-Dichloroethene	1.03		0.396	1.00	1	03/08/2019 03:17	WG1246980
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2019 03:17	WG1246980
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2019 03:17	WG1246980
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2019 03:17	WG1246980
Ethylbenzene	U		0.384	1.00	1	03/08/2019 03:17	WG1246980
2-Hexanone	U		3.82	10.0	1	03/08/2019 03:17	WG1246980
Isopropylbenzene	U		0.326	1.00	1	03/08/2019 03:17	WG1246980
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2019 03:17	WG1246980
Methyl Acetate	U		4.30	20.0	1	03/08/2019 03:17	WG1246980
Methyl Cyclohexane	U		0.380	1.00	1	03/08/2019 03:17	WG1246980
Methylene Chloride	U		1.00	5.00	1	03/08/2019 03:17	WG1246980
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2019 03:17	WG1246980
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2019 03:17	WG1246980
Naphthalene	U		1.00	5.00	1	03/08/2019 03:17	WG1246980
Styrene	U		0.307	1.00	1	03/08/2019 03:17	WG1246980
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2019 03:17	WG1246980
Tetrachloroethene	1860		37.2	100	100	03/14/2019 12:55	WG1249582
Toluene	U		0.412	1.00	1	03/08/2019 03:17	WG1246980
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2019 03:17	WG1246980
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2019 03:17	WG1246980
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2019 03:17	WG1246980
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2019 03:17	WG1246980
Trichloroethene	41.5		0.398	1.00	1	03/08/2019 03:17	WG1246980
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2019 03:17	WG1246980
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2019 03:17	WG1246980
Vinyl chloride	U		0.259	1.00	1	03/08/2019 03:17	WG1246980
Xylenes, Total	U		1.06	3.00	1	03/08/2019 03:17	WG1246980
(S) Toluene-d8	*101*			*80.0-120*		*03/08/2019 03:17*	WG1246980
(S) Toluene-d8	*102*			*80.0-120*		*03/14/2019 12:55*	WG1249582
(S) a,a,a-Trifluorotoluene	*106*			*80.0-120*		*03/08/2019 03:17*	WG1246980
(S) a,a,a-Trifluorotoluene	*97.2*			*80.0-120*		*03/14/2019 12:55*	WG1249582
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*03/08/2019 03:17*	WG1246980

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	WELL No.	TPMW4/BH4
DATE COMPLETED:	3/6/19	SUPERVISED BY:	SK



REFERENCE POINT
Elevation/Depth: NA

SURFACE SEAL
Type/Depth: NA

DEPTH OF SURFACE CASING: NA

RISER PIPE Size/Type: 1.0 inch/Schedule 40 PVC

DIAMETER OF BOREHOLE: 2.2 inches

TYPE OF FILL: NA

TOP OF SEAL Elevation/Depth: 0.0 ft. bgs
TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK Elevation/Depth: 1.0 ft. bgs
FILTER PACK MATERIAL: #00N silica sand

TOP OF SCREEN Elevation/Depth: 10.2 ft. bgs
SCREEN SIZE/TYPE: 0.010 inch/Schedule 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 14.8 ft. bgs

BOTTOM OF FILTER PACK
Elevation/Depth: 15.0 ft. bgs

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 15.0 ft. bgs

TYPE OF FILLER
BELOW PLUGGED BLANK: Native soils

BOTTOM OF BOREHOLE
Elevation/Depth: 15.0 ft. bgs

NOTES

ANALYTICAL RESULTS

TABLE OF CONTENTS

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3391349-4 03/07/19 21:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Benzene	U		0.331	1.00
Bromochloromethane	U		0.520	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
n-Butylbenzene	U		0.361	1.00
Carbon disulfide	U		0.275	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Cyclohexane	U		0.390	1.00
Chloromethane	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
Ethylbenzene	U		0.384	1.00
2-Hexanone	U		3.82	10.0
Methyl Acetate	U		4.30	20.0
Isopropylbenzene	U		0.326	1.00
Methyl Cyclohexane	U		0.380	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methyl tert-butyl ether	U		0.367	1.00
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0

Method Blank (MB)

(MB) R3390687-1 03/11/19 17:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1076451-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1076451-01 03/11/19 17:09 • (DUP) R3390687-3 03/11/19 17:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	69.5	74.0	1	6.25		10

Laboratory Control Sample (LCS)

(LCS) R3390687-2 03/11/19 17:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.9		1	03/13/2019 11:26	WG1249212

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	U		17.6	32.1	1	03/14/2019 01:13	WG1249338
Benzene	U		0.513	1.28	1	03/10/2019 17:35	WG1247937
Bromochloromethane	U		1.45	6.41	1	03/10/2019 17:35	WG1247937
Bromodichloromethane	U		1.01	3.21	1	03/10/2019 17:35	WG1247937
Bromoform	U		7.67	32.1	1	03/10/2019 17:35	WG1247937
Bromomethane	U		4.75	16.0	1	03/10/2019 17:35	WG1247937
Carbon disulfide	U		5.21	16.0	1	03/10/2019 17:35	WG1247937
Carbon tetrachloride	U		1.39	6.41	1	03/10/2019 17:35	WG1247937
Chlorobenzene	U		0.735	3.21	1	03/10/2019 17:35	WG1247937
Chlorodibromomethane	U		0.577	3.21	1	03/10/2019 17:35	WG1247937
Chloroethane	U	J4	1.39	6.41	1	03/10/2019 17:35	WG1247937
Chloroform	1.52	J	0.532	3.21	1	03/10/2019 17:35	WG1247937
Chloromethane	U	J4	1.78	16.0	1	03/10/2019 17:35	WG1247937
Cyclohexane	U		0.652	3.21	1	03/10/2019 17:35	WG1247937
1,2-Dibromo-3-Chloropropane	U		6.54	32.1	1	03/10/2019 17:35	WG1247937
1,2-Dibromoethane	U		0.674	3.21	1	03/10/2019 17:35	WG1247937
Dichlorodifluoromethane	U	J4	1.05	3.21	1	03/10/2019 17:35	WG1247937
1,1-Dichloroethane	U		0.738	3.21	1	03/10/2019 17:35	WG1247937
1,2-Dichloroethane	U		0.609	3.21	1	03/10/2019 17:35	WG1247937
1,2-Dichlorobenzene	U		1.86	6.41	1	03/10/2019 17:35	WG1247937
1,3-Dichlorobenzene	U		2.18	6.41	1	03/10/2019 17:35	WG1247937
1,4-Dichlorobenzene	U		2.53	6.41	1	03/10/2019 17:35	WG1247937
1,1-Dichloroethene	U		0.641	3.21	1	03/10/2019 17:35	WG1247937
cis-1,2-Dichloroethene	22.5		0.885	3.21	1	03/10/2019 17:35	WG1247937
trans-1,2-Dichloroethene	U		1.83	6.41	1	03/10/2019 17:35	WG1247937
1,2-Dichloropropane	U		1.53	6.41	1	03/10/2019 17:35	WG1247937
cis-1,3-Dichloropropene	U		0.870	3.21	1	03/10/2019 17:35	WG1247937
trans-1,3-Dichloropropene	U		1.96	6.41	1	03/10/2019 17:35	WG1247937
Ethylbenzene	U		0.680	3.21	1	03/10/2019 17:35	WG1247937
2-Hexanone	U		12.8	32.1	1	03/10/2019 17:35	WG1247937
Isopropylbenzene	U		1.11	3.21	1	03/10/2019 17:35	WG1247937
2-Butanone (MEK)	27.3	J	16.0	32.1	1	03/10/2019 17:35	WG1247937
Methyl Acetate	U		2.69	6.41	1	03/10/2019 17:35	WG1247937
Methyl Cyclohexane	U		1.32	6.41	1	03/10/2019 17:35	WG1247937
Methylene Chloride	U		8.52	32.1	1	03/10/2019 17:35	WG1247937
4-Methyl-2-pentanone (MIBK)	U		12.8	32.1	1	03/10/2019 17:35	WG1247937
Methyl tert-butyl ether	U		0.378	1.28	1	03/10/2019 17:35	WG1247937
Naphthalene	U		4.00	16.0	1	03/10/2019 17:35	WG1247937
Styrene	U		3.50	16.0	1	03/10/2019 17:35	WG1247937
1,1,2,2-Tetrachloroethane	U		0.500	3.21	1	03/10/2019 17:35	WG1247937
Tetrachloroethene	935		0.898	3.21	1	03/10/2019 17:35	WG1247937
Toluene	U		1.60	6.41	1	03/10/2019 17:35	WG1247937
1,2,3-Trichlorobenzene	U		0.802	3.21	1	03/14/2019 01:13	WG1249338
1,2,4-Trichlorobenzene	U		6.18	16.0	1	03/14/2019 01:13	WG1249338
1,1,1-Trichloroethane	U		0.353	3.21	1	03/10/2019 17:35	WG1247937
1,1,2-Trichloroethane	U		1.13	3.21	1	03/10/2019 17:35	WG1247937
Trichloroethene	15.1		0.513	1.28	1	03/10/2019 17:35	WG1247937
Trichlorofluoromethane	U		0.641	3.21	1	03/10/2019 17:35	WG1247937
1,1,2-Trichlorotrifluoroethane	U		0.866	3.21	1	03/10/2019 17:35	WG1247937
Vinyl chloride	U	J4	0.876	3.21	1	03/10/2019 17:35	WG1247937

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391349-1 03/07/19 20:13 • (LCSD) R3391349-2 03/07/19 20:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	25.0	26.0	26.4	104	106	68.0-126			1.61	20
Chlorobenzene	25.0	25.3	26.1	101	105	80.0-121			3.36	20
Chlorodibromomethane	25.0	25.3	25.5	101	102	77.0-125			0.642	20
Chloroethane	25.0	22.6	24.1	90.4	96.2	47.0-150			6.20	20
Chloroform	25.0	25.1	25.4	101	102	73.0-120			1.03	20
Chloromethane	25.0	26.8	28.2	107	113	41.0-142			5.21	20
1,2-Dibromo-3-Chloropropane	25.0	24.7	24.4	98.9	97.5	58.0-134			1.44	20
1,2-Dibromoethane	25.0	26.5	26.1	106	104	80.0-122			1.77	20
1,2-Dichlorobenzene	25.0	25.4	25.8	102	103	79.0-121			1.29	20
1,3-Dichlorobenzene	25.0	25.7	25.8	103	103	79.0-120			0.189	20
1,4-Dichlorobenzene	25.0	24.5	25.3	98.1	101	79.0-120			3.04	20
2-Hexanone	125	129	132	103	106	67.0-149			2.26	20
Dichlorodifluoromethane	25.0	24.4	25.5	97.5	102	51.0-149			4.64	20
1,1-Dichloroethane	25.0	25.2	25.9	101	103	70.0-126			2.39	20
Ethylbenzene	25.0	25.2	25.8	101	103	79.0-123			2.23	20
1,2-Dichloroethane	25.0	26.1	26.2	105	105	70.0-128			0.216	20
1,1-Dichloroethene	25.0	23.7	23.6	94.6	94.3	71.0-124			0.383	20
cis-1,2-Dichloroethene	25.0	25.7	26.8	103	107	73.0-120			4.46	20
Methyl Acetate	125	127	129	102	103	57.0-148			1.26	20
trans-1,2-Dichloroethene	25.0	24.4	24.6	97.4	98.4	73.0-120			1.00	20
1,2-Dichloropropane	25.0	26.0	27.3	104	109	77.0-125			4.80	20
Methyl Cyclohexane	25.0	23.3	23.8	93.2	95.2	68.0-126			2.20	20
cis-1,3-Dichloropropene	25.0	25.7	27.0	103	108	80.0-123			4.86	20
trans-1,3-Dichloropropene	25.0	25.2	25.9	101	103	78.0-124			2.67	20
Methyl tert-butyl ether	25.0	25.5	25.5	102	102	68.0-125			0.0403	20
Isopropylbenzene	25.0	25.9	26.5	103	106	76.0-127			2.23	20
p-Isopropyltoluene	25.0	26.4	27.1	106	108	76.0-125			2.42	20
2-Butanone (MEK)	125	124	127	99.5	101	44.0-160			1.73	20
Toluene	25.0	24.2	24.8	96.6	99.3	79.0-120			2.74	20
Methylene Chloride	25.0	23.6	23.9	94.3	95.7	67.0-120			1.42	20
4-Methyl-2-pentanone (MIBK)	125	123	127	98.7	102	68.0-142			3.19	20
Naphthalene	25.0	26.0	25.6	104	102	54.0-135			1.29	20
n-Propylbenzene	25.0	25.3	25.7	101	103	77.0-124			1.41	20
Styrene	25.0	26.4	27.0	106	108	73.0-130			2.28	20
1,1,2,2-Tetrachloroethane	25.0	24.9	25.5	99.8	102	65.0-130			2.11	20
o-Xylene	25.0	25.6	25.7	102	103	80.0-122			0.459	20
m&p-Xylenes	50.0	51.7	52.2	103	104	80.0-122			0.936	20
Tetrachloroethene	25.0	25.2	25.7	101	103	72.0-132			1.70	20
Xylenes, Total	75.0	77.3	77.9	103	104	79.0-123			0.773	20
1,1,2-Trichlorotrifluoroethane	25.0	23.9	24.6	95.7	98.5	69.0-132			2.84	20

Method Blank (MB)

(MB) R3391696-3 03/14/19 05:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromomethane	U		0.866	5.00
cis-1,2-Dichloroethene	U		0.260	1.00
Tetrachloroethene	U		0.372	1.00
(S) a,a,a-Trifluorotoluene	*95.5*			*80.0-120*
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391696-1 03/14/19 04:34 • (LCSD) R3391696-2 03/14/19 04:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	25.0	22.9	23.0	91.6	91.9	10.0-160			0.406	25
cis-1,2-Dichloroethene	25.0	23.0	22.8	92.0	91.3	73.0-120			0.701	20
Tetrachloroethene	25.0	20.2	20.1	81.0	80.4	72.0-132			0.752	20
(S) a,a,a-Trifluorotoluene				*96.6*	*95.4*	*80.0-120*				
(S) Toluene-d8				*99.8*	*100*	*80.0-120*				
(S) 4-Bromofluorobenzene				*98.0*	*98.5*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*117*	*70.0-130*				

Method Blank (MB)

(MB) R3391217-2 03/10/19 13:57

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Naphthalene	U		3.12	12.5
n-Propylbenzene	U		1.18	5.00
Styrene	U		2.73	12.5
1,1,2,2-Tetrachloroethane	U		0.390	2.50
Tetrachloroethene	U		0.700	2.50
Toluene	U		1.25	5.00
1,1,2-Trichlorotrifluoroethane	U		0.675	2.50
1,1,1-Trichloroethane	U		0.275	2.50
1,1,2-Trichloroethane	U		0.883	2.50
Trichloroethene	U		0.400	1.00
Trichlorofluoromethane	U		0.500	2.50
1,2,4-Trimethylbenzene	U		1.16	5.00
1,3,5-Trimethylbenzene	U		1.08	5.00
Vinyl chloride	U		0.683	2.50
Xylenes, Total	U		4.78	6.50
o-Xylene	U		1.00	2.50
m&p-Xylenes	U		1.50	4.00
(S) Toluene-d8	*101*			*75.0-131*
(S) a,a,a-Trifluorotoluene	*110*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391217-1 03/10/19 11:37

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	125	124	98.9	70.0-123	
Bromodichloromethane	125	128	102	73.0-121	
Bromochloromethane	125	140	112	77.0-128	
Bromoform	125	156	124	64.0-132	
Bromomethane	125	173	138	56.0-147	
n-Butylbenzene	125	90.4	72.3	68.0-135	
sec-Butylbenzene	125	94.9	75.9	74.0-130	
tert-Butylbenzene	125	101	81.1	75.0-127	
Carbon disulfide	125	144	115	56.0-133	
Carbon tetrachloride	125	137	110	66.0-128	
Chlorobenzene	125	123	98.2	76.0-128	
Chlorodibromomethane	125	147	118	74.0-127	

Laboratory Control Sample (LCS)

(LCS) R3391217-1 03/10/19 11:37

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
o-Xylene	125	121	96.6	79.0-124	
m&p-Xylenes	250	247	98.8	76.0-126	
Methyl Acetate	625	587	93.9	43.0-158	
Cyclohexane	125	123	98.8	65.0-128	
Methyl Cyclohexane	125	110	88.0	67.0-129	
(S) Toluene-d8			*101*	*75.0-131*	
(S) a,a,a-Trifluorotoluene			*109*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.8*	*70.0-130*	

Method Blank (MB)

(MB) R3391569-2 03/14/19 10:54

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Tetrachloroethene	U		0.700	2.50
(S) Toluene-d8	*107*			*75.0-131*
(S) a,a,a-Trifluorotoluene	*119*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*84.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391569-1 03/14/19 09:18

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	125	119	95.4	70.0-136	
(S) Toluene-d8			*107*	*75.0-131*	
(S) a,a,a-Trifluorotoluene			*115*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*96.1*	*70.0-130*	

Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM L1076453-10

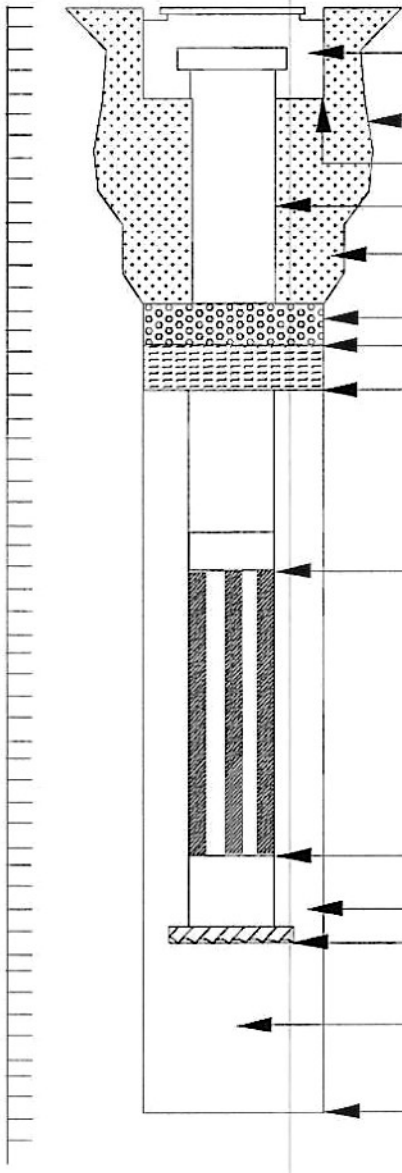
Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390109-1 03/09/19 02:02 • (LCSD) R3390109-2 03/09/19 02:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Phenanthrene	2.00	1.91	2.08	95.5	104	62.0-137			8.52	20
Pyrene	2.00	1.97	2.16	98.5	108	60.0-142			9.20	20
(S) Nitrobenzene-d5				*130*	*141*	*31.0-160*				
(S) 2-Fluorobiphenyl				*84.0*	*93.0*	*48.0-148*				
(S) p-Terphenyl-d14				*101*	*111*	*37.0-146*				

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	627 Columbia Turnpike, East Greenbush, New York	PROJECT No.	191020.22
CLIENT:	NBT Bank, N.A.	WELL No.	TPMW2/BH2
DATE COMPLETED:	3/6/19	SUPERVISED BY:	SK



REFERENCE POINT
Elevation/Depth: NA

SURFACE SEAL
Type/Depth: NA

DEPTH OF SURFACE CASING: NA

RISER PIPE Size/Type: 1.0 inch/Schedule 40 PVC

DIAMETER OF BOREHOLE: 2.2 inches

TYPE OF FILL: NA

TOP OF SEAL Elevation/Depth: 0.0 ft. bgs
TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK Elevation/Depth: 1.0 ft. bgs
FILTER PACK MATERIAL: #00N silica sand

TOP OF SCREEN Elevation/Depth: 10.2 ft. bgs
SCREEN SIZE/TYPE: 0.010 inch/Schedule 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 14.8 ft. bgs

BOTTOM OF FILTER PACK
Elevation/Depth: 15.0 ft. bgs

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 15.0 ft. bgs

TYPE OF FILLER
BELOW PLUGGED BLANK: Native soils

BOTTOM OF BOREHOLE
Elevation/Depth: 15.0 ft. bgs

NOTES

SIG
SUBSURFACE INVESTIGATIONS GEOLOGY, D.P.C.

SUBSURFACE LOG

PROJECT/ LOCATION: 627 Columbia Turnpike, East Greenbush, New York | PROJECT No. 191020.22

CLIENT: NBT Bank, N.A. | BORING/WELL No. BH4/TPMW4

DATE STARTED: 3/6/19 | DATE COMPLETED: 3/6/19 | RECORDED BY: AT

GROUNDWATER DEPTH WHILE DRILLING: ~5.0 ft. bgs. | AFTER COMPLETION: ~12.5 ft. bgs.

WEATHER: 30 °F, Sunny | DRILL RIG: Geoprobe | DRILLER: Core Down Drilling

DRILL SIZE/TYPE: Dual tube | SAMPLE HAMMER: WEIGHT NA | FALL NA

Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description
1	NA	0.3-2	U	-	-	0	0- 0.3 ft. Asphalt
2	NA	2-4	U	-	-	0	0.3-5.0 ft. No recovery
3	21.8	4-6	U	-	-	10	5.0-15.0 ft. Soft, wet, brown, silty, medium plasticity CLAY (CL)
4	17.1	6-8	U	-	-	16	
5	57.2	8-10	U	-	-	16	
6	20.5	10-12	U	-	-	24	
7	26.8	12-14	U	-	-	24	
8	30.1	14-15	U	-	-	12	

NOTES NA = Not Applicable

ft. bgs = feet below ground surface

Fill to ~0.3 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

WELL CONSTRUCTION DETAILS

METHODS OF INVESTIGATION

Soil

Soil samples were collected on March 6, 2019, with a percussion and hydraulically driven drive system equipped with an approximate 2-inch diameter, approximate 60-inch long dual-tube sampler. Soil samples were collected within each borehole continuously from the ground surface until a depth of between approximately 10 and 15 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) as a guide and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum and some solvents.) Based on the field observations and/or screening results, soils were selected for analysis (see below).

Groundwater

Temporary groundwater monitoring wells TPMW1 through TPMW5 were installed within boreholes BH1 through BH5 respectively. Generally, the bottoms of the wells were set to between 10 and 15 ft. bgs. Each of the wells was constructed with one-inch diameter PVC screen and riser with a silica filter pack placed around the well screen. A bentonite seal was placed above the sand and the wells were covered with plastic caps, to prevent surface water from entering the wells prior to sampling. Refer to the attached subsurface logs/well construction details for well specific well construction details.

The groundwater samples from temporary groundwater monitoring wells TPMW1 through TPMW5 were collected on March 6, 2019. Prior to sample collection, each well was developed by removing a minimum of three volumes from the well. New disposable dedicated PVC bailers were used for well development and sample collection activities.

Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected samples were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with the United States Environmental Protection agency (USEPA) SW-846 Methods as summarized below. The analytical methods were chosen based on SIG' experience with sites of similar use.

RECOMMENDATIONS

Based on the results of the investigation SIG recommends qualified environmental legal counsel be consulted by the property owner with regard to potential regulatory notification requirements due to the elevated concentrations of chlorinated solvents and the close proximity to sensitive receptors (i.e. adjacent commercial properties and residential properties).

Additional study is recommended to delineate the extent of chlorinated solvent impact in the soil and groundwater through the installation of additional borings and groundwater monitoring wells. Furthermore, a vapor intrusion assessment is warranted to evaluate whether or not impact to indoor air is occurring. Depending upon the results of vapor intrusion assessment, installation of a sub-slab depressurization system may be warranted. Remediation of impacted soil and groundwater is recommended.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Drafted by:

Brandon Stau
Environmental Analyst

Reviewed by:

Douglas B. Reid, P.G.