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Civil Engineers
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Environmental & Safety Professionals
Landscape Architects
Transportation Planners & Engineers

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Troy, NY 12180
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April 10, 2018

Mr. John Durnin
New York State Department of Environmental Conservation
Section B, Remedial Bureau B
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7016

Re: Corrective Measures Work Plan
136 Fuller Road BCP Site #C401055, Albany County, New York
Chazen Job 90618.00

Dear Mr. Durnin:

On behalf of Fuller Partners LLP (Fuller Partners), this letter presents a Corrective Measures Work Plan (CMWP)to address an area of VOC groundwater impacts in site monitoring well MW-32 that was not evident when the HVE/SVE was installed. This CMWP is submitted to NYSDEC with a request for approval.

BACKGROUND

An array of ten shallow recovery wells was installed at proposed locations in the contaminant plume source area in 2010 to recover volatile organic contaminants (VOCs) from the contaminant source area, through total fluids vacuum extraction and soil vapor extraction (see attached figure). A total of four recovery wells (R-1, R-2, R-3 and R-10) were installed in the site building at accessible locations believed to be within the source area. After installing these wells, the well identified as R-10 was found to be non-productive as the geology was nearly all clay throughout the extent of the shallow screened interval. As such, R-10 was never connected to the remediation system. Initial headspace readings for recovery wells R-1 and R-3 had very low concentrations of VOCs, so they were designated as soil vapor extraction wells. These two wells have been operated as SVE wells since that time and their combined SVE discharge has been monitored for the presence of VOCs monthly since that time. These wells initially produced very low levels of VOCs, eventually declining to immeasurable levels. These wells are thought to be at the eastern and western edges of the plume source area where VOC concentrations have been substantially removed over the eight-year remedial action period.

EXPLANATION OF NEED FOR CORRECTIVE MEASURE

Monitoring of VOCs in groundwater have identified a persistent area of groundwater plume contamination in site monitoring well MW-32 that was not evident when the HVE/SVE system was installed. The recovery system was not initially extended this far downgradient of the source area and it is apparent that additional source recovery is now necessary to provide extended recovery in this area to meet remedial goals.

PROPOSED CORRECTIVE MEASURES

Additional Groundwater Monitoring Well

While the HVE/SVE system has reduced chlorinated volatile organic compound (CVOC) concentrations in the area of influence, groundwater sampling results in downgradient monitoring well MW-32 show elevated CVOC concentrations remain in this area. This CMWP includes installing one additional groundwater monitoring well

(MW-37) between MW-32 and MW-34 (see attached Figure 1) to document VOC concentrations in groundwater downgradient of MW-32. As requested, attached are prior groundwater sampling results for MW-34, including the most recent sampling results from March 2018. VOCs in MW-34 were generally non-detect and do not show elevated concentrations of CVOCs or indications of contaminant migration to this well.

Additional Recovery Wells

This CMWP proposes installing two recovery wells (R-11 and R-12) in the accessible area upgradient and near MW-32 to extend system coverage and reduce CVOC concentrations in this area of the plume. The attached Figure 2 shows the general location of the planned wells. These wells are proposed in an effort to more aggressively address this area of the plume. Recovery wells R-11 and R-12 will be plumbed back to the existing total fluids extraction recovery system via re-purposing and modification of piping currently used for existing SVE wells R-1 and R-3. Re-use of these SVE transfer lines will substantially reduce the extent of construction needed to plumb the new recovery wells into the TFE system and minimize the disruption to UltrePET plant operations in this area of the building. As a result, R-1 and R-3 will be disconnected from the remediation trailer and will no longer extract vapors.

CORRECTIVE MEASURE DETAILS

The following proposed Corrective Measures have been discussed with NYSDEC and are considered to be a reasonable response to assess and address the impacts identified in MW-32. Fuller Partners understands that the effectiveness of the proposed HVE/SVE system expansion can only be assessed after installation and operation, and that the system's effectiveness on remaining groundwater impacts is uncertain.

1. Earth Environmental, LLC (Earth) will oversee a drilling contractor to install one 1-inch diameter groundwater monitoring well. The proposed locations have been discussed with operations management of UlrePET and identified as locations that will not interfere with ongoing plant operations. Geology will be observed during the drilling process and depending on the geology, the wells are anticipated to be installed to a depth of 25 feet below the building floor grade and screened from 15 to 25 feet. This well construction is designed to be consistent with the depth of nearby wells MW-32, and the depth of subsurface impacts identified in this site area during the Remedial Investigation and subsequent quarterly groundwater monitoring. Well construction is planned to be similar to nearby wells MW-33 and MW-34 as shown on attached boring/well construction logs.
2. Earth Environmental, LLC (Earth) will oversee a drilling contractor to install two 4-inch diameter recovery wells in the accessible areas upgradient of MW-32 at locations that are believed to be suitable to reduce plume impacts in the MW-32 area. The proposed locations have been discussed with operations management of UlrePET and identified as locations that will not interfere with ongoing plant operations. Geology will be observed during the drilling process and depending on the geology, the wells are anticipated to be installed to a depth of 25 feet below the building floor grade and screened from 15 to 25 feet. This well construction is designed to be consistent with the depth of well MW-32 and the depth of subsurface impacts identified in this site area during the Remedial Investigation and subsequent quarterly groundwater monitoring.
3. These activities will include disturbing site soils during which certain monitoring and documenting activities must occur to comply with the SMP. NYSDEC has indicated that monitoring VOCs with a PID to verify safe work conditions will be sufficient to meet the intent of the SMP monitoring. The work will be completed according to the approved project health and safety plan (HASP), and other general conditions of the project SMP. Earth will provide the equipment and staff to perform this monitoring as needed and will document the working conditions throughout the drilling and installation of these wells.

The driller will provide exhaust ventilation for the drilling rig to ensure that engine combustion exhaust is routed out of the building through the nearest building door to ensure safe air quality conditions.

4. Earth will pipe the two new recovery wells back to the TFE manifold piping at the remediation trailer, generally consistent with initial 2010 system installation. The main difference is that piping for the two new wells will involve extending pipes overhead to remain out of UltrePET's work area. Piping will extend vertically approximately 20 feet, then turn to the north to cross over a primary access/work area, before extending back down to connect with R-1 and R-3 piping. Existing R-1 and R-3 SVE piping will be re-purposed to connect the two new wells to the trailer manifold. Earth will verify connection with the system and recovery at each of the wells, and include them with the monthly monitoring and maintenance of the system. Recovery wells R-1 and R-3 will be sealed/capped at the wellheads to ensure that there is no connection to interior building air, and will no longer extract vapors.
5. Earth will provide a summary report describing the installation and modifications to the system which Chazen will use to prepare a SMP addendum.
6. Earth will maintain comprehensive documentation for VOC environmental monitoring, compliance and soil disposal activities, and submit this documentation for demonstration of compliance with the project SMP.
7. Soil cuttings will be containerized in DOT drums during drilling, for disposal. Consistent with the SMP, Earth will assist Fuller Partners with characterization and disposal of soil generated from the well drilling process.
8. Following a temporary system shut-down of three days, Chazen will collect groundwater samples from the site extraction wells (R-1 through R-9, R-11, and R-12) for VOC analysis via Method 8260. Wells will be purged to remove one well volume and then sampled after recovery. Purged groundwater will be contained, and transferred into the remediation system for treatment. The recovery well groundwater data will be used to re-balance the system to focus the remedial efforts on the wells that continue to have the greatest impact.

PROPOSED SCHEDULE

We anticipate that the installation of the groundwater monitoring well and two recovery wells will take two days to complete. A driller has been scheduled for April 24 and 25, pending NYSDEC approval of the CMWP. Piping of the wells back to the remediation trailer and sampling of groundwater from the existing and new recovery wells would occur within two weeks of the well installations. Waste soil generated from the installation of the recovery wells will be stored on-site in drums, sampled for disposal characterization and disposed of at a licensed disposal facility within 60 days of generating the soil wastes. An SMP addendum documenting the system modifications will be generated and submitted to NYSDEC within 30 days of completing the entirety of the proposed activities.

If you have any questions, please contact Kim Baines at (518) 588-2104 or Arlette St. Romain at (518) 266-7328.

Sincerely,

Kim L. Baines, LEP	Arlette St. Romain
Project Manager, Earth Environmental	Assistant Project Manager, Chazen

Reviewed and approved by



Joseph M. Lanaro, PE
Senior Principal, Vice President, Engineering

cc via email:	Mr. Kyle Forster, NYSDEC	Mr. Leigh Peritz PE, wTe Corporation
	Ms. Maureen Schuck, NYSDOH	Mr. Scott Mellen, President & CEO, wTe Corporation

Attachments:
Figure 1 Proposed Groundwater Monitoring Well
Figure 2 Proposed Modifications to the HVE/SVE System
Boring/Well Construction Logs for MW-33 and MW-34
Groundwater Sampling Results for MW-34

LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- WATER TABLE ELVATION CONTOUR (FEET APPROX.)

Proposed new groundwater monitoring well MW-37

MW-6 MW-19 MW-21 MW-23 MW-20 MW-1 MW-8 MW-22 MW-25 MW-27 MW-29 MW-2 MW-30 MW-9 MW-10 MW-11 MW-31 MW-32 MW-34 MW-33 MW-35 MW-16 MW-12 MW-13 MW-3 MW-17 MW-18 MW-5 MW-7

238.95 237.96 240.86 240.79 237.98 240.95 241.06 237.73 237.50 237.43 237.43 236.77 228.70 236.65

240 239 238 241 237

0 50 100 150
SCALE IN FEET
NORTH

BLACKTOP PARKING AREA 3-SPACES 4 SPACES CONC. PADS CONC. PAD W/CONC. FILLED POST CONC. PAD W/ SMALL COOLING UNIT H.H. P.I.V. C.B. CB CONC. RAMP M.H. SET IN CONC. M.H. GAS (see map ref.(4)) HANDICAP PARKING CONC. AND STEEL STAIRS 1-SPACE CONC. PAD W/COMPACTOR

ULTREPET, LLC VACANT EQUAL VISION

CONC. STEPS GAS METERS STEEL BOLLARDS (4) CONC. PAD LOADING RAMP AREA OF BROKEN CONC., BLACKTOP & CRUSHED STONE 6' HIGH CHAIN LINK FENCE TRANSFORMER AREA LIQUID CARBON DIOXIDE TANK CONC PAD W/PIPES TO TANK CONC. PAD W/ COMPRESSOR CONC. FILLED GUARD POST Existing Permanent Easement granted to N.M.P.C. for tree & brush cutting (L1202/P 129) 8 SPACES Gross Area Temp. Const. Parcel 4-SPACES Blacktop 7-SPACES WATER TANK PUMP HSE. MONITOR WELL POLE OVERHEAD ELEC. WIRES R.O.W. MON. FOUND @ PROPERTY CORNER FOUND 1/28/04 (4) 1" PIPES 6'HIGH CHAIN LINK FENCE LINE 1983 HIGHWAY BOUNDARY GUARD RAIL 1985 HIGHWAY W.O./A. R.O.W. MON. FOUND N.76°35'20"E.-0.52' FROM PROPERTY CORNER R.O.W. MON. FOUND N.59°45'22"E.-0.41' FROM PROPERTY CORNER

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CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C.

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Phone: (518) 273-0055

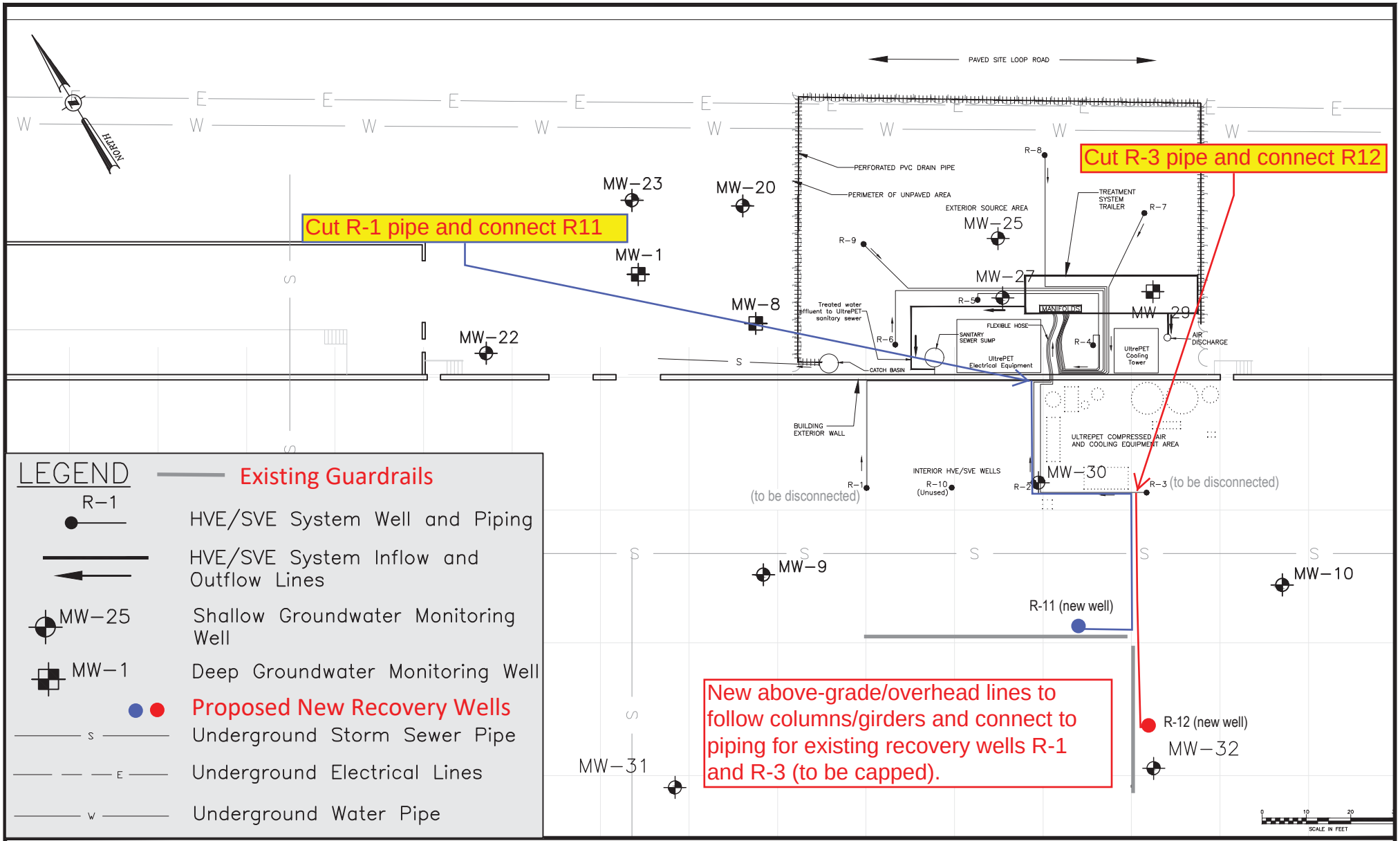
North Country Office:
375 Bay Road
Queensbury, New York 12804
Phone: (518) 812-0513

Proposed Groundwater Monitoring Well

136 Fuller Road, Albany, NY

designed	checked
SEM	WGO
date	scale
12/11/17	1"=60'
project no.	
90618.00	
sheet no.	
FIG.1	

Drawing Name: C:\temp\AcPublish_7792\90618.00_GW CONTOURS 2017-DECEMBER.dwg Date Printed: Feb 27, 2018, 2:56pm



LEGEND

- Existing Guardrails
- R-1 — HVE/SVE System Well and Piping
- HVE/SVE System Inflow and Outflow Lines
- MW-25 — Shallow Groundwater Monitoring Well
- MW-1 — Deep Groundwater Monitoring Well
- Proposed New Recovery Wells
- S — Underground Storm Sewer Pipe
- E — Underground Electrical Lines
- W — Underground Water Pipe

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Tennessee Office:
1705 Division Street
Nashville, Tennessee 37203
Phone: (615) 953-4909

☒ North Country Office:
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Queensbury, New York 12804
Phone: (518) 812-0513

☐ Westchester NY Office:
1 North Broadway, Suite 803
White Plains, New York 10601
Phone: (914) 997-8510

FULLER PARTNERS, LLC SITE

PROPOSED MODIFICATIONS TO HVE/SVE SYSTEM

136 FULLER ROAD
CITY OF ALBANY, ALBANY COUNTY, NY

design	chked
CSD	ASM
date	scale
03/15/18	1"=30'
project no.	
90618.00	
sheet no.	
FIG.2	

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Drawing Name: Z:\projects\90600-90699\90618_00 FullerRD\ENG\DWG\IRM FIGURES_90618-00(SD).dwg Date Printed: Mar 15, 2018, 1:41pm

TEST BORING LOG

THE Chazen COMPANIES
547 River Street
Troy, NY 12180
PH: (518) 273-0055
FX: (518) 273-8391

PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-32**
Total Depth: 54 ft.

Contractor: Drilex
Drill Rig: Geoprobe 6620DT
Driller: Mike Joice
Inspector: Will Olsen

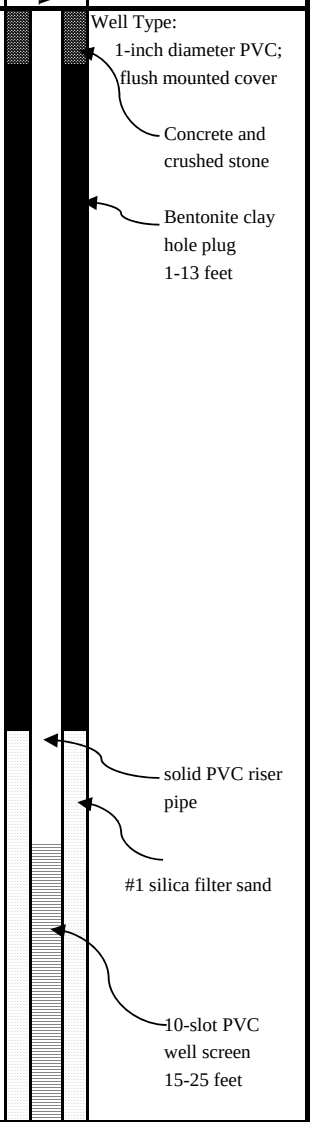
Start Date: 7/1/2010
Finish Date: 7/1/2010
El. Datum: NAVD88
G.S. Elevation: 252.5

Northing: ---
Easting: ---
Longitude: ---
Latitude: ---

Borehole Dia.: 3.25/2.25 in.
Depth to Water: 15 ft.
Depth to Rock: >54 ft.
Depth of Well: 25 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:
			1		0			4 inch concrete slab cored with diamond tooth hole saw. No recovery. Liner jammed in spoon.
1	251.5							
2	250.5							
3	249.5							
4	248.5							
5	247.5		2		18		SP	fine to medium brown SAND, trace silt, moist
6	246.5							
7	245.5				16		CL	grey-brown CLAY, moist, stiff
8	244.5				10	0	SP	brown fine SAND, trace silt, moist
9	243.5							
10	242.5		3		18		SP	brown fine SAND, trace silt, moist
11	241.5							
12	240.5					0		
13	239.5							
14	238.5							
15	237.5		4		60		SP	brown fine to medium SAND, trace silt, wet
16	236.5							
17	235.5					0		
18	234.5							
19	233.5							

Well diagram



Field Notes, Well Notes, Comments:

STANDARD NOTES: 1. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.
2. Samples classified in accordance with ASTM D-2488 unless otherwise noted.
3. Test Boring Log Page 1: 0 - 20 feet Each subsequent page: Additional 25 feet.

ADDITIONAL NOTES: Well Location: Inside Building. / Weather: sunny, dry, mild. / Hole grouted with Portland/Gel-X slurry 25-54 feet, well screen installed 15-25 feet using 3.25 inch casing; sand pack installed while pulling casing.

DRILLING INFORMATION
Method: Direct Push

	Casing	Sample	Core
Type:			
Diam.:			
Weight:			
Fall:			

TEST BORING LOG

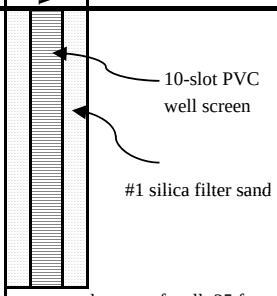
THE Chazen COMPANIES
547 River Street
Troy, NY 12180
PH: (518) 273-0055
FX: (518) 273-8391

PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-32**
Total Depth: 54 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:
			5		60		SP	same as above, saturated, running
21	231.5							
22	230.5					0		
23	229.5							
24	228.5							
25	227.5		6		46		SP	greyish-brown fine to medium SAND, trace silt, saturated, runnning
26	226.5							
27	225.5					0		
28	224.5							
29	223.5							
30	222.5		7		42		SP	same as above, grey-brown to brown, saturated, running
31	221.5							
32	220.5					0		
33	219.5							
34	218.5							
35	217.5		8		60		SP	same as above, brown, saturated, running.
36	216.5							
37	215.5					0		
38	214.5							
39	213.5							
40	212.5		9		28		SP	same as above, wet, running, grey-brown
41	211.5							
42	210.5				32	0	CL	grey CLAY, little silt, wet, plastic
43	209.5							
44	208.5							

Well Diagram



Field Notes, Well Notes, Comments:

bottom of well: 25 feet

ADDITIONAL NOTES:

TEST BORING LOG

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PH: (518) 273-0055
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PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-32**
Total Depth: 54 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:	Field Notes, Comments:
			10		30		CL	same as above	
46	206.5								
47	205.5								
48	204.5					0			
49	203.5								
50	202.5								
			11		48		CL	same as above	
51	201.5								
52	200.5					0			
53	199.5								
54	198.5						GC	hard gravelly grey TILL in tip of spoon	
								Refusal encountered at 54 feet bgs. End of boring.	
55	197.5								
56	196.5								
57	195.5								
58	194.5								
59	193.5								
60	192.5								
61	191.5								
62	190.5								
63	189.5								
64	188.5								
65	187.5								
66	186.5								
67	185.5								
68	184.5								
69	183.5								

ADDITIONAL NOTES:

TEST BORING LOG

THE Chazen COMPANIES
547 River Street
Troy, NY 12180
PH: (518) 273-0055
FX: (518) 273-8391

PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-34**
Total Depth: 52 ft.

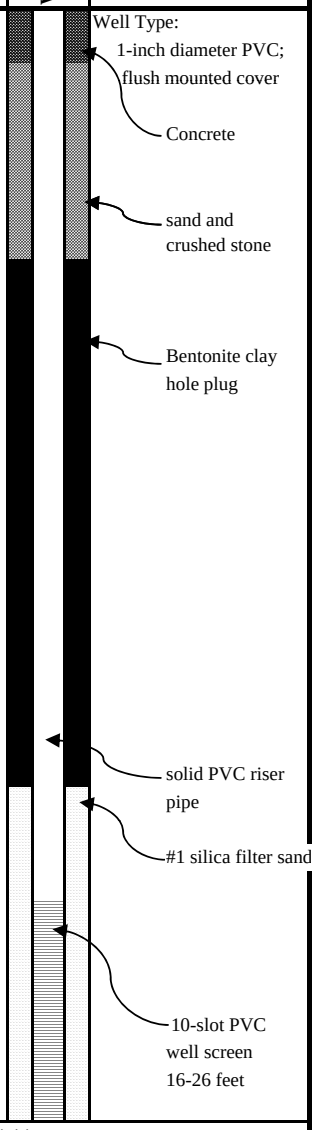
Contractor: Drilex
Drill Rig: Geoprobe 6620DT
Driller: Mike Joice
Inspector: Will Olsen

Start Date: 7/1/2010
Finish Date: 7/2/2010
El. Datum: NAVD88
G.S. Elevation: 252.5

Northing: ---
Easting: ---
Longitude: ---
Latitude: ---

Borehole Dia.: 3.25/2.25 in.
Depth to Water: ~14 ft.
Depth to Rock: >52 ft.
Depth of Well: 26 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:
			1		40		SP	fine to medium brown SAND, trace silt, dry
1	251.5							
2	250.5					0		
3	249.5							
4	248.5							
5	247.5		2		34		SP	same as above, dry, brown
6	246.5							
7	245.5					0		
8	244.5				8	0	CL	brown silty CLAY, moist, very stiff
9	243.5							
10	242.5		3		12		CL	same as above
11	241.5				25	0	SP	brown moist SAND, trace silt
12	240.5							bottom 12 inches wet
13	239.5							
14	238.5					0		
15	237.5		4		38		SP	same as above, saturated, running
16	236.5							
17	235.5					0		
18	234.5							
19	233.5							



Field Notes, Well Notes, Comments:

STANDARD NOTES: 1. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.
2. Samples classified in accordance with ASTM D-2488 unless otherwise noted.
3. Test Boring Log Page 1: 0 - 20 feet Each subsequent page: Additional 25 feet.

ADDITIONAL NOTES: Hole grouted from 26-52 feet ; well installed using 3.25 inch casing, sand pack installed while pulling casing.

DRILLING INFORMATION
Method: Direct Push

	Casing	Sample	Core
Type:			
Diam.:			
Weight:			
Fall:			

TEST BORING LOG

THE Chazen COMPANIES
547 River Street
Troy, NY 12180
PH: (518) 273-0055
FX: (518) 273-8391

PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-34**
Total Dept 52 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
			5		34		SP	same as above, saturated, running		
21	231.5									
22	230.5									10-slot PVC well screen
23	229.5					0				#1 silica filter sand
24	228.5									
25	227.5									
			6		60		SP	same as above, saturated, running		
26	226.5							changing to grey-black		bottom of well: 26 feet
27	225.5									
28	224.5					0				
29	223.5									
30	222.5									
			7		48		SM	greyish brown fine SAND, abundant silt, grading to SILT, saturated		
31	221.5									
32	220.5									
33	219.5					0				
34	218.5									
					8		ML	greyish-brown SILT, trace very fine sand, moist to wet		
35	217.5									
			8		30		SM	greyish-brown fine SAND, abundant silt		
36	216.5									
37	215.5									
						29				
38	214.5				2		ML	greyish-brown SILT, wet		
					21		SM	greyish-brown fine SAND, abundant silt		
39	213.5									
					3		ML	greyish brown SILT, moist, stiff		
40	212.5		9		2		ML	same as above		
					36		ML	grey SILT, sandy, saturated		
41	211.5									
42	210.5					57				
					3			grey SILT, moist		
43	209.5				6			grey SILT, sandy, saturated		
							ML			
44	208.5				10		SM	grey SILT, changing to grey CLAY		
							ML			

ADDITIONAL NOTES:

TEST BORING LOG

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Troy, NY 12180
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FX: (518) 273-8391

PROJECT: 136 Fuller Road
LOCATION: Albany, New York
CLIENT: Fuller Partners, LLC
PROJECT NO.: 90618.00

Test Boring No.: **MW-34**
Total Depth: 52 ft.

Depth (Feet)	Elevation (Feet)	Casing Data	Sample No.	Sample Data	Recovery (Inches)	PID (ppm)	Group Symbol	Stratum and Field Descriptions:	Field Notes, Comments:
			10		48		CL	grey CLAY, stiff, moist	
46	206.5							(top 20 inches: fractures filled with saturated silty fine sand present)	
47	205.5					68			
48	204.5								Stopped driving at 49 feet due to stiff material.
49	203.5		11		26		CL	grey CLAY, stiff, moist	
50	202.5					58		change in lithology	
51	201.5				28		GM	grey SILT, trace sand, fine gravel (15-20%), stiff, moist (Till)	
52	200.5							Refusal encountered at 52 feet bgs. End of boring.	
53	199.5								
54	198.5								
55	197.5								
56	196.5								
57	195.5								
58	194.5								
59	193.5								
60	192.5								
61	191.5								
62	190.5								
63	189.5								
64	188.5								
65	187.5								
66	186.5								
67	185.5								
68	184.5								
69	183.5								

ADDITIONAL NOTES:

Sample Location		MW34				
Sample ID: FRMW (Fuller Rd Monitoring Well)-Well ID# (approx depth to well bottom)	**6 NYCRR**	**FRMW-MW34-X25**				
(Screen Interval)	**Part 703.5**	**(15-25')**				
Sample Date		07/20/10	9/25/2012	12/20/2012	3/14/2013	3/29/2018
Lab Sample ID		10G0743-01	12I0945-14	12L0807-14	13C0516-13	18C1190-07
Groundwater Elevation		238.60	238.18	238.02	238.13	237.9
Analyte	ppb	ppb	ppb	ppb	ppb	ppb
1,1,1-Trichloroethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	0.27 J
1,1,2,2-Tetrachloroethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
1,1,2-Trichloroethane	1	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
1,1-Dichloroethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
1,1-Dichloroethylene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
1,2,3-Trichlorobenzene	5					ND< 0.20
1,2,4-Trichlorobenzene	5	*ND< 10*	*ND< 10*	*ND< 10*	*ND< 10*	ND< 0.20
1,2,4-Trimethylbenzene	5	NA	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
1,2-Dibromo-3-chloropropane	0.04	*ND< 10*	*ND< 10*	*ND< 10*	*ND< 10*	ND< 0.20
1,2-Dibromoethane	0.0006	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
1,2-Dichlorobenzene	5.0000					ND< 0.20
1,2-Dichloroethane	0.6	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
1,2-Dichloropropane	1	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	0.22 J
1,3-Dichlorobenzene	5					ND< 0.20
1,4-Dichlorobenzene	5					ND< 0.20
2-Butanone	50*	ND< 10	ND< 10	ND< 10	ND< 10	ND< 0.20
2-Hexanone	50*	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NS	ND< 10	ND< 10	ND< 10	ND< 10	ND< 0.20
Acetone	50*	ND< 10	ND< 10	ND< 10	ND< 10	ND< 1
Benzene	1	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
Bromochloromethane	5					ND< 0.20
Bromodichloromethane	50*	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Bromoform	50*	ND< 5.0 J	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Bromomethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Carbon disulfide	60*	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Carbon tetrachloride	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Chlorobenzene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Chloroethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Chloroform	7	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Chloromethane	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
cis-1,2-Dichloroethylene	5	ND< 5.0	1.4 J	ND< 5.0	ND< 5.0	0.46 J
cis-1,3-Dichloropropylene	0.4[+]	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
Cyclohexane	NS					ND< 0.20
Dibromochloromethane	50*	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Dichlorodifluoromethane	5	ND< 5.0	ND< 5.0	1.2 J	0.88 J	ND< 0.20
Ethyl Benzene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Isopropylbenzene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Methyl acetate	NS					ND< 0.20
Methyl tert-butyl ether (MTBE)	10*	3 J	3.2 J	4.2 J	3.0 J	ND< 0.20
Methylcyclohexane	NS					ND< 0.20
Methylene chloride	5	ND< 5.0	3.0 J,B	*ND< 10*	**6.4 J**	ND< 1
o-Xylene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.60
p- & m- Xylenes	5	*ND< 10*	ND< 5.0	ND< 5.0	ND< 5.0	
Styrene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Tetrachloroethylene	5	3 J	3.4 J	1.6 J	1.6 J	1.7
Toluene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
trans-1,2-Dichloroethylene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
trans-1,3-Dichloropropylene	0.4[+]	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
Trichloroethylene	5	ND< 5.0	ND< 5.0	ND< 5.0	ND< 5.0	ND< 0.20
Vinyl Chloride	2	ND< 5.0	*ND< 5.0*	*ND< 5.0*	*ND< 5.0*	ND< 0.20
Total VOC concentration	NS	6	13.4	9.0	13.8	2.7
Total CVOC concentration	NS	3.0	10.2	4.8	10.8	2.7
Total Petro-VOC concentration	NS	3.0	3.2	4.2	3.0	0.0
Other VOC concentration	NS	0	0.0	0.0	0.0	0.0
	Location of screen	(236.5' - 226.5' amsl)				